



# Restricted Substances List (RSL) and product safety requirements

Rev. 4.1 September 2026

# Contents

INTRODUCTION TO THE OTB RSL .....3

SECTION 1: OTB GROUP PRSL.....4

1.1 MAIN UPDATES COMPARED TO OTB RSL VERSION 4.....4

1.2 OTB RESTRICTED SUBSTANCES LIST..... 5

1.3 ADDITIONAL REQUIREMENTS FOR CHILDREN'S PRODUCTS FOR THE US MARKET ..... 92

SECTION 2: SAFETY REQUIREMENTS FOR OTB GROUP PRODUCTS .....10

2.1 MECHANICAL SAFETY .....10

2.2 PHYSICAL SAFETY .....21

SECTION 3: SUBSTANCE LIST TABLES..... 32

# INTRODUCTION TO THE RSL OF OTB

## INTRODUCTION TO THE OTB RESTRICTED SUBSTANCES LIST (RSL)

The OTB Group aims to make a significant contribution to building a renewed fashion supply chain, rooted in pillars such as the responsible management of chemical substances within industrial processes and products, product durability, traceability and the circular economy.

The OTB Group is committed to protecting the planet against climate change, safeguarding biodiversity and developing control systems for managing atmospheric emissions, water used in production processes and chemical products, in order to minimize possible impacts and safeguard people and the ecosystem.

OTB, an international fashion group that controls numerous owned and licensed brands, including Diesel, as well as the production companies Staff International and Brave Kid, requires the utmost transparency from all its business partners, and through the RSL is committed to reducing the substances to be restricted and/or prohibited within its products and production processes, in order to protect its customers, workers and the environment.

The OTB PRSL applies to items intended for the fashion sector (clothing, footwear, accessories, leather goods, small leather goods, jewelry, eyewear, packaging).

Products with specific requirements, such as cosmetics, childcare products, toys, electrical and electronic products, or products intended for food contact, are not included. Any products outside the fashion sector must comply with the relevant specific regulations

## PRODUCTION PROCESSES

With the aim of eliminating hazardous chemical substances from production processes, in 2021 OTB joined the ZDHC Roadmap to Zero Programme (<https://www.roadmaptozero.com/>).

As a ZDHC supporter, the Group has committed to developing a responsible management strategy for water resources and chemical substances and to eliminating the use of hazardous chemical substances from production processes by 2030. The OTB Group therefore requires all suppliers to ensure that the chemical products used for OTB production comply with the **ZDHC MRSL** (<https://mrsl-30.roadmaptozero.com/>) and to implement the Supplier to Zero pathway, allowing suppliers to assess their own knowledge and state of implementation against industry best practices.

## PRODUCTS

The **PRSL (i.e. Product Restricted Substances List)** of the OTB Group is periodically updated and provides a list of chemical substances whose presence is prohibited or restricted in order to ensure full compliance of raw materials, semi-finished products and finished products.

These limits, the result of careful analysis, derive from the application of mandatory global regulations on consumer health, product safety and environmental protection, as well as from the voluntary decision to reduce the use of certain substances that are under observation and not yet regulated.

In accordance with the precautionary principle, in fact, where binding regulations have not yet been issued by the countries of production and marketing of the finished products, the OTB Group has nonetheless decided to introduce stricter limitations, drawing on the most authoritative sources for chemical safety (e.g. Oeko-tex) as well as established global industry standards.

Among the main regulations covered by this document is also the REACH Regulation (no. 1907/2006 REACH) and its current amendments. This regulation also includes the list of SVHC substances (Substances of Very High Concern) contained in the "Candidate List", for which the supplier must immediately notify the OTB Group of any presence above 0.1% by weight (1000 mg/kg). Since the OTB Group does not accept the presence of such substances above this value, the supplier is required to find substitute substances that comply with the Regulation. OTB asks its suppliers to keep up to date by periodically visiting the ECHA website <http://echa.europa.eu/it> for the requirements set out in the REACH Regulation, and the website <http://echa.europa.eu/it/candidate-list-table> for the list of SVHC substances.

OTB also asks its suppliers to keep up to date with regard to the Californian market, by periodically visiting the website <https://oehha.ca.gov/proposition-65>;

The OTB Group continuously verifies compliance with the PRSL, carrying out chemical tests only at ISO 17025 accredited laboratories, using accredited methods according to the indications provided in the PRSL for each family of substances. This is intended to rule out any possible risk, ensuring full compliance with the set parameters, with the aim of placing only safe products on the market.

As of the publication date of this RSL, the OTB Group holds GOTS and Textile Exchange certification, and consequently this RSL, set out in section 1, also includes the requirements applicable to materials covered by the aforementioned certifications

**POLYVINYL CHLORIDE (PVC):** The use of PVC for the manufacture of products destined for the OTB Group is not permitted.

For any doubts or questions regarding this document, please contact the Sustainability Office representatives.

## SECTION 1: PRSL OF THE OTB GROUP

### 1.1 MAIN UPDATES COMPARED TO OTB RSL VERSION 3

| VERSION     | DATE           | UPDATE                                                       |
|-------------|----------------|--------------------------------------------------------------|
| VERSION 4.1 | SEPTEMBER 2026 | Update of the following 1.2 "OTB RESTRICTED SUBSTANCES LIST" |

## 1.2 OTB RESTRICTED SUBSTANCES LIST

**Material category legend:** TEX = Textiles · LEA = Leather and fur · PLA = Plastic and rubber · MET = Metal parts · GLA = Glass and crystal · WOO = Wood/bamboo and similar · PAP = Paper and similar · ADH = Adhesives and glues · PKG = Packaging · FEA = Hygiene and cleanliness of feathers and down

| Requirement                                                       | Detail / Substance                                                                                                                                 | TEX | LEA | PLA | MET | GLA | WOO | PAP | ADH | PKG | FEA | Unit  | Child limit<br>(0-16 years)                                                                                                                         | Adult limit<br>(>16 years)                                                                                                      | Detection<br>limit       | Test method                                                                                                                                                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical requirements</b>                                      |                                                                                                                                                    |     |     |     |     |     |     |     |     |     |     |       |                                                                                                                                                     |                                                                                                                                 |                          |                                                                                                                                                                                                            |
| BORIC ACID                                                        |                                                                                                                                                    |     | X   |     |     |     | X   |     |     |     |     | mg/Kg | N.D.*                                                                                                                                               |                                                                                                                                 | 5                        | Microwave digestion and ICP-MS – GC-MS analysis                                                                                                                                                            |
| ALKYLPHENOLS (AP) (Table 1)                                       |                                                                                                                                                    | X   | X   |     |     |     |     | X   |     | X   | X   | mg/kg | 10 (sum) Textile                                                                                                                                    |                                                                                                                                 | 10                       | ISO 21084                                                                                                                                                                                                  |
| ALKYLPHENOL ETHOXYLATES (APEO) (Table 2)                          |                                                                                                                                                    | X   | X   |     |     |     |     | X   |     | X   | X   | mg/kg | 100 (sum)                                                                                                                                           | 100 (sum) –<br>250 (sum) for 100% recycled<br>fibres                                                                            | 10                       | EN ISO 18254-1<br>CNS 15579; GBT 14272; EN 18218-1                                                                                                                                                         |
| ANILINE                                                           |                                                                                                                                                    | X   |     |     |     |     |     |     |     |     |     | mg/kg | 20                                                                                                                                                  |                                                                                                                                 | 5                        | EN ISO 14362-1 and 3                                                                                                                                                                                       |
| ASBESTOS (Table 3)                                                |                                                                                                                                                    | X   | X   | X   | X   | X   | X   |     |     |     |     | mg/kg | N.D.*                                                                                                                                               |                                                                                                                                 | N/A                      | SEM microscope examination                                                                                                                                                                                 |
| BISPHENOLS (only for elastomeric and polyester fibres) (Table 17) |                                                                                                                                                    | X   | X   | X   |     |     |     |     |     | X   |     | mg/kg | A and TBBP A: MOUTH<br>CONTACT 1; 10 TEXTILE AND<br>LEATHER;<br>OTHERS 1000<br>B, S, F: 200 TEXTILE 800<br>LEATHER;<br>GOTS: A ONLY NOT<br>DETECTED | A and TBBP A: 10 TEXTILE<br>AND LEATHER;<br>OTHERS 1000<br>B, S, F: 200 TEXTILE 800<br>LEATHER;<br>GOTS: A ONLY NOT<br>DETECTED | 1                        | Solvent extraction, LC-MS /<br>GC-MS analysis; ISO 11936; EN 71-<br>10/11; THF extraction, LC-MS analysis                                                                                                  |
| QUINOLINE (ONLY IF IN CONTACT WITH THE SKIN)                      |                                                                                                                                                    | X   |     |     |     |     |     |     |     |     |     | mg/Kg | 50                                                                                                                                                  |                                                                                                                                 | 5                        | MeOH extraction + GC-MS or<br>THF/DCM + HPLC-MS                                                                                                                                                            |
| CYCLOSILOXANES-SILOXANES                                          |                                                                                                                                                    | X   |     |     |     |     |     |     |     |     |     | mg/Kg | 1000 EACH                                                                                                                                           |                                                                                                                                 |                          |                                                                                                                                                                                                            |
| CHLOROBENZENES AND CHLOROTOLUENES (Table 5)                       |                                                                                                                                                    | X   |     | X   |     |     |     |     | X   |     |     | mg/kg | 1 per substance                                                                                                                                     |                                                                                                                                 | 0.2 (EACH<br>SUBSTANCE)  | EN 17137; EN 17131; EN 17137; DIN<br>54232                                                                                                                                                                 |
|                                                                   |                                                                                                                                                    |     |     |     |     |     |     |     |     |     |     |       | Pentachlorobenzene and Hexachlorobenzene: N.D.*                                                                                                     |                                                                                                                                 |                          |                                                                                                                                                                                                            |
| CHLOROPHENOLS                                                     | PENTACHLOROPHENOL (PCP)<br>TETRACHLOROPHENOLS (TeCP)<br>TRICHLOROPHENOLS (TriCP)<br>DICHLOROPHENOLS (DCP)<br>MONOCHLOROPHENOLS (MCP)<br>(Table 13) | X   | X   | X   |     |     | X   |     |     |     |     | mg/Kg | N.D.*                                                                                                                                               |                                                                                                                                 | 0.05 (each<br>substance) | § 64 LFGB BVL B 82.02-08<br>UNI 11057<br>PCP/TeCP also GB/T 18414.1-2<br>(children's rubber footwear: upper,<br>lining, socks)<br>KS K ISO 0733(1) (PCP only)<br>EN ISO 17070; CEN/TR 14823;<br>EN 17134-2 |
| VINYL CHLORIDE MONOMER (VCM)                                      |                                                                                                                                                    | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg | 1                                                                                                                                                   |                                                                                                                                 | 0.5                      | GB/T 4615; ISO 6401                                                                                                                                                                                        |
| DYES                                                              | CARCINOGENIC (Table 6A)                                                                                                                            | X   | X   |     |     |     |     |     |     |     |     | mg/Kg | 20                                                                                                                                                  |                                                                                                                                 | 10                       | DIN 54231<br>ISO 16373                                                                                                                                                                                     |
|                                                                   | ALLERGENIC DISPERSE DYES<br>(Table 6B)                                                                                                             | X   | X   |     |     |     |     |     |     |     |     |       |                                                                                                                                                     |                                                                                                                                 | 5                        | DIN 54231<br>KS K 0763 (1)<br>ISO 16373                                                                                                                                                                    |
|                                                                   | AZO DYES (Table 6C)                                                                                                                                | X   | X   |     |     |     |     |     |     | X   |     |       |                                                                                                                                                     |                                                                                                                                 | 5                        | EN ISO 14362-1 and 3<br>GB/T 17592.1<br>GB/T 33392<br>GB/T 23344<br>KS K ISO 0147 (1)                                                                                                                      |

| Requirement                                                                   | Detail / Substance | TEX | LEA | PLA | MET | GLA | WOO | PAP | ADH | PKG | FEA | Unit  | Child limit<br>(0-16 years)                                                              | Adult limit<br>(>16 years)  | Detection<br>limit      | Test method                                                                                                                                                                     |
|-------------------------------------------------------------------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------------------------------------------------------------------------------------------|-----------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                               |                    |     |     |     |     |     |     |     |     |     |     |       |                                                                                          |                             |                         | KS K 0739 (1)<br>KSK 0734 (1)                                                                                                                                                   |
|                                                                               | OTHERS (Table 6D)  | X   | X   |     |     |     |     |     |     |     |     |       |                                                                                          |                             | 10                      | DIN 54231                                                                                                                                                                       |
| PHENYL MERCURY COMPOUNDS (Table 12)                                           |                    | X   | X   | X   |     |     | X   |     |     |     |     | mg/Kg | N.D.*                                                                                    |                             | 1                       | EN ISO 17072-1/2<br>EN 16711-1/2                                                                                                                                                |
| ORGANOTIN COMPOUNDS (Table 8)                                                 |                    | X   | X   | X   |     |     |     |     | X   | X   |     | mg/Kg | TBT/TPHT: 0.5; Others: 1;<br>TBT/TPHT/DBT/DOT: 0.05 (GOTS); Others: 0.1 (GOTS);          |                             | 0.1<br>Others: 0.2      | CEN ISO/TS 16179; ISO 17353; EN ISO 22744-1<br>KS K 0737(1)<br>ISO 22744-1<br>NIEA T 504.30B                                                                                    |
| PRESERVATIVES                                                                 |                    |     |     |     |     |     | X   |     |     |     |     | mg/kg | Lindane: 1<br>Cyfluthrin, Cypermethrin, Deltamethrin, Permethrin: 5                      |                             | Lindane: 1<br>Others: 5 | EN 71-9 GC-MS; GC-ECD+ EN 71-11,<br>extraction in ethanol and acetic acid                                                                                                       |
| DIMETHYL FUMARATE (DMFu)                                                      |                    | X   | X   | X   |     |     | X   |     |     |     |     | mg/Kg | 0.1 + GOTS ND                                                                            |                             | 0.05                    | EN 17130<br>CEN ISO/TS 16186<br>GC-ECD<br>GB/T 26713                                                                                                                            |
| FORMALDEHYDE<br>(FREE AND EXTRACTABLE)                                        |                    | X   | X   |     |     |     | X   | X   | X   | X   |     | mg/Kg | 16 (0-16 YEARS)                                                                          | 75                          |                         | EN ISO 14184-1; ISO 17226-1/2;<br>EN717-3; CNS 15880-1; EN 1541; DIN<br>EN 645;<br>GB 18401: GB/T 2912.1; GBT 19941;<br>Japanese law: JIS L1041<br>KS K 14184-1(1)<br>KS K 0611 |
| FORMALDEHYDE (RELEASE)                                                        |                    |     |     |     |     |     | X   |     |     |     |     | mg/Kg | Plywood: 0.05<br>Particleboard: 0.09<br>MDF: 0.11<br>Thin MDF 32F (thickness ≤8mm): 0.13 |                             | 0.03                    | ASTM E1333–14<br>ASTM D6007–14<br>ASTM D5582–14                                                                                                                                 |
| PHTHALATES (Table 9)<br>(only for coated/printed/varnished/laminated fabrics) |                    | X   | X   | X   |     |     |     |     | X   | X   |     | mg/Kg | 500 (SINGLE)<br>1000 (SUM)<br>100 (GOTS SUM)                                             |                             | 50 (each<br>substance)  | EN ISO 14389; ISO 8124-6<br>CPSC-CH-C1001-09.4<br>GB/T 20388<br>ISO/TS 16181                                                                                                    |
| POLYCYCLIC AROMATIC HYDROCARBONS (PAH)<br>(Table 10)                          |                    | X   | X   | X   |     |     | X   |     | X   |     |     | mg/Kg | GROUP A: 0.5 (each<br>substance)                                                         | GROUP A: 1 (each substance) | 0.5                     | AfPS GS 2019:01 PAK<br>EN 17132; UNI CEN ISO /TS 16190                                                                                                                          |
| ISOCYANATES (Table 11)                                                        |                    |     |     |     |     |     |     |     | X   |     |     | mg/Kg | N.D.*                                                                                    |                             | 2                       | REF. EN 13130-8<br>LC MS-MS                                                                                                                                                     |
| EXTRACTABLE METALS                                                            | Antimony (Sb)      | X   | X   | X   | X   |     |     |     |     |     |     | mg/Kg | 30<br>GOTS: 0.2                                                                          |                             | 0.2                     | GB/T 17593.3                                                                                                                                                                    |
|                                                                               | Arsenic (As)       | X   | X   | X   | X   |     |     |     |     |     |     | mg/Kg | 0.2                                                                                      | 1<br>GOTS: 0.2              | 0.2                     | ISO 17075-2<br>EN 16711-2                                                                                                                                                       |
|                                                                               | Cadmium (Cd)       | X   | X   | X   | X   | X   |     |     |     |     |     | mg/Kg | 0.1                                                                                      | 1<br>GOTS: 0.1              | 0.1                     | Children's rubber footwear: (upper,<br>lining, socks):                                                                                                                          |
|                                                                               | Chromium (Cr)      | X   |     | X   |     |     |     |     |     |     |     | mg/Kg | 1                                                                                        | 2<br>GOTS: 1                | 0.5                     | Arsenic, requirements in GB/T<br>17593.4; Cadmium and lead<br>requirements also in GB/T 17593.1                                                                                 |
|                                                                               | Cobalt (Co)        | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg | 1                                                                                        | 4<br>GOTS: 1                | 0.1                     |                                                                                                                                                                                 |
|                                                                               | Copper (Cu)        | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg | 25                                                                                       | 50<br>GOTS: 25              | 5                       | EN 71-3                                                                                                                                                                         |
|                                                                               | Lead (Pb)          | X   | X   | X   | X   | X   |     |     |     |     |     | mg/Kg | 0.2                                                                                      | 1<br>GOTS: 0.2              | 0.1                     | (Suppliers must also comply with the<br>following standards:                                                                                                                    |
|                                                                               | Nickel (Ni)        | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg | 1                                                                                        | 4<br>GOTS: 1                | 1                       | KS G ISO 8124-3(1) ISO 8124-3<br>GB/T 28020                                                                                                                                     |
|                                                                               | Mercury (Hg)       | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg | 0.02                                                                                     |                             | 0.01                    |                                                                                                                                                                                 |
|                                                                               | Barium (Ba)        | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg | 1000                                                                                     |                             | 1                       | ASTM F963-11<br>CNS 4797-2                                                                                                                                                      |
|                                                                               | Selenium (Se)      | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg | 500<br>GOTS: 0.2                                                                         |                             | 1                       | Cadmium also in SNI 7617<br>Lead/PVC artificial leather GB/T<br>30157)                                                                                                          |
|                                                                               | Tin (Sn)           | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg | 2                                                                                        |                             | 2                       |                                                                                                                                                                                 |

| Requirement                                     | Detail / Substance                                                 | TEX | LEA | PLA | MET | GLA | WOO | PAP | ADH | PKG | FEA | Unit            | Child limit<br>(0-16 years)                                                                                          | Adult limit<br>(>16 years) | Detection<br>limit  | Test method                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------|--------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|----------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TOTAL METALS                                    | Manganese (Mn)                                                     | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg           | 90                                                                                                                   |                            | 0.1                 | EN 16711-1; GB/T 30157; QB/T 4340;<br>17072-2; EN 1122; GB/T 28021;<br>CPSC-CH-E1004-11; GB/T 28020;                                                                                                                                                                                                                            |
|                                                 | Zinc (Zn)                                                          | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg           | 750                                                                                                                  |                            | 1                   |                                                                                                                                                                                                                                                                                                                                 |
|                                                 | Arsenic (As)                                                       | X   | X   | X   |     |     | X   |     | X   |     |     | mg/Kg           | 40                                                                                                                   |                            | 1                   |                                                                                                                                                                                                                                                                                                                                 |
|                                                 | Cadmium (Cd)                                                       | X   | X   | X   | X   | X   | X   | X   | X   | X   |     | mg/kg           | 40                                                                                                                   | 100                        | 1                   |                                                                                                                                                                                                                                                                                                                                 |
|                                                 | Lead (Pb)                                                          | X   | X   | X   | X   | X   | X   | X   | X   | X   |     | mg/Kg           | 90<br>GOTS: 50                                                                                                       |                            | 1                   |                                                                                                                                                                                                                                                                                                                                 |
|                                                 | Mercury (Hg)                                                       | X   | X   | X   |     | X   | X   | X   | X   | X   |     | mg/Kg           | 0.5                                                                                                                  |                            | 0.05                |                                                                                                                                                                                                                                                                                                                                 |
| CHROMIUM VI (Cr VI)                             |                                                                    | X   | X   |     |     |     | X   | X   | X   | X   |     | mg/Kg           | 3                                                                                                                    |                            | 0.5                 | EN ISO 17075-2 Determination after Ageing:<br>1) CLOTHING AND LEATHER PRODUCTS<br>ISO 10195 A1 60°C. Max 20% humidity + EN ISO 17075<br>2) FOOTWEAR<br>ISO 10195 A2 80°C. Max 10% humidity + EN ISO 17075<br>For rubber footwear/children's footwear: upper, lining, socks also refer to GB/T 38402; GB/T 17593.3; KS M 6902(1) |
| NICKEL RELEASE (Ni)                             |                                                                    |     |     |     | X   |     |     |     |     |     |     | µg/cm²/<br>week | Earrings / piercings: --- 0,28<br>Others: --- 0,5                                                                    |                            | 0.01                | Coatings/Coverings EN 12472<br>EN 12471<br>EN 1811<br>Sunglasses/eyeglass frames:<br>EN 16128                                                                                                                                                                                                                                   |
| NITROSAMINES (Table 16)                         |                                                                    |     |     | X   |     |     |     |     |     |     |     | mg/kg           | 0,5                                                                                                                  |                            | 0.5                 | GB/T 24153<br>EN ISO 19577 with LC/MS/MS confirmation if analysis is positive                                                                                                                                                                                                                                                   |
| ORTHOPHENYLPHENOL (OPP)                         |                                                                    | X   | X   |     |     |     | X   | X   |     |     |     | mg/Kg           | 1000<br>1 (GOTS)                                                                                                     |                            | 0.5                 | § 64 LFGB BVL B 82.02-08<br>EN 17134; ISO 13365-1                                                                                                                                                                                                                                                                               |
| SHORT-CHAIN CHLORINATED PARAFFINS SCCP C10-C13  |                                                                    | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg           | 1000 (50 GOTS)                                                                                                       |                            | 50                  | ISO 22818 (SCCP+MCCP); ISO 18219-1                                                                                                                                                                                                                                                                                              |
| MEDIUM-CHAIN CHLORINATED PARAFFINS MCCP C14-C17 |                                                                    | X   |     | X   |     |     |     |     |     |     |     | mg/Kg           | 1000 (50 GOTS)                                                                                                       |                            | 15                  | ISO 22818 (SCCP+MCCP); ISO 18219-2 Extraction and analysis by GC/MS                                                                                                                                                                                                                                                             |
| PENTACHLOROBENZENE AND HEXACHLOROBENZENE (VOC)  |                                                                    | X   | X   | X   |     |     |     |     |     |     |     | mg/kg           | 1 SUM                                                                                                                |                            | 0,2 (ogni sostanza) | DIN 54232<br>EN 17137                                                                                                                                                                                                                                                                                                           |
| PESTICIDES (Table 4A)                           |                                                                    | X   | X   |     |     |     |     |     |     |     |     | mg/Kg           | N.D.*                                                                                                                |                            | 0.5                 | Gas chromatography with electron capture detector (GC-ECD) or Solvent extraction and GC-MS LC-MS analysis                                                                                                                                                                                                                       |
| PFC - PERFLUOROCARBONS                          | ALL PFAS DETERMINED BASED ON TOTAL ORGANIC FLUORINE (TOF)          | X   | X   |     |     |     |     |     |     |     |     | mg/kg           | 50                                                                                                                   |                            | 5                   | EN 14582 or ASTM D7359                                                                                                                                                                                                                                                                                                          |
|                                                 | PERFLUOROOCTANE SULFONATE (PFOS) AND RELATED SUBSTANCES (Table 7A) | X   | X   |     |     |     |     |     |     |     |     | µg/kg           | 25 (PFOS and SALTS); 25 (PFOS and derivates SUM)<br>1000 (PFOS-related substances)<br>single 25 and sum 250 (FRANCE) |                            | 25                  | EN ISO 23702-1 or<br>EN 17681-1 & 17681-2                                                                                                                                                                                                                                                                                       |
|                                                 | PERFLUOROOCTANOIC ACID (PFOA) AND ITS SALTS (Table 7B)             | X   | X   |     |     |     |     |     |     |     |     | µg/kg           | 25<br>single 25 and sum 250 (FRANCE)                                                                                 |                            | 25                  |                                                                                                                                                                                                                                                                                                                                 |
|                                                 | PFOA-RELATED SUBSTANCES (Table 7C)                                 | X   | X   |     |     |     |     |     |     |     |     | µg/kg           | 1000<br>100 GOTS<br>single 25 and sum 250 (FRANCE)                                                                   |                            | 25                  |                                                                                                                                                                                                                                                                                                                                 |

| Requirement                                                                                                                                                                                                                                                                                                                                                                                                                         | Detail / Substance                                                  | TEX | LEA | PLA | MET | GLA | WOO | PAP | ADH | PKG | FEA | Unit                     | Child limit<br>(0-16 years)                                                                                                          | Adult limit<br>(>16 years) | Detection<br>limit | Test method                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|---------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | PFHXA SUBSTANCES AND ITS SALTS (Table 7C)                           | X   | X   |     |     |     |     |     |     |     |     | µg/kg                    | 25<br>single 25 and sum 250 (FRANCE)                                                                                                 |                            | 25                 |                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | PFHXA-RELATED SUBSTANCES (Table 7C)                                 | X   | X   |     |     |     |     |     |     |     |     | µg/kg                    | 1000<br>single 25 and sum 250 (FRANCE)                                                                                               |                            | 25                 |                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | PERFLUOROHEXANE-1-SULFONIC ACID (PFHXS) AND ITS SALTS (Table 7D&7G) | X   | X   |     |     |     |     |     |     |     |     | µg/kg                    | 25<br>N.D. (GOTS)<br>single 25 and sum 250 (FRANCE)                                                                                  |                            | 25                 |                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | PFHXS-RELATED SUBSTANCES (Table 7D&7G)                              | X   | X   |     |     |     |     |     |     |     |     | µg/kg                    | 260<br>N.D. GOTS<br>single 25 and sum 250 (FRANCE)                                                                                   |                            | 25                 |                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | PERFLUOROCARBOXYLIC ACIDS C9-C14 (PFCAs) AND THEIR SALTS (Table 7E) | X   | X   |     |     |     |     |     |     |     |     | µg/kg                    | 25<br>Single 25 and sum 250 (FRANCE)                                                                                                 |                            | 25                 |                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | PFCA C9-C14-RELATED SUBSTANCES (Table 7F)                           | X   | X   |     |     |     |     |     |     |     |     | µg/kg                    | 260<br>10 (GOTS)<br>Single 25 and sum 250 (FRANCE)                                                                                   |                            | 10                 |                                                                                             |
| pH                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     | X   | X   |     |     |     |     |     |     |     |     | mg/Kg                    | 4.0 – 7.5 TEXTILE; 3.5-7.5 LEATHER                                                                                                   |                            | -                  | EN ISO 3071; EN ISO 4045;<br>GB 18401<br>GB/T 7573<br>KS K ISO 3071(1)                      |
| FLAME RETARDANTS (Table 14)                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     | X   | X   | X   |     |     | X   |     |     |     |     | mg/Kg                    | N.D.*                                                                                                                                |                            | 5                  | EN ISO 17881-1/-2<br>GB/T 24279<br>Solvent extraction and GC-MS or LC-MS or GC-ECD analysis |
| SOLVENTS<br>(Table 15)                                                                                                                                                                                                                                                                                                                                                                                                              | CHLORINATED SOLVENTS                                                | X   | X   | X   |     |     | X   |     | X   |     |     | mg/Kg                    | α-chlorotoluene: 1<br>GROUP A: 500 (sum)<br>GROUP B: 50 (sum)<br>Benzene: 5<br>Methyl Alcohol: 1000<br>N-hexane: 150<br>Toluene: 200 |                            | 0.05               | Solvent extraction and GC-MS /<br>HS-GC-MS analysis<br>EN 17131                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | VOC                                                                 |     |     |     |     |     |     |     |     |     |     |                          | DMF: 50<br>NMP: 100<br>DMAc: 300<br>2-methoxyethanol: 10<br>Others: 500                                                              |                            |                    |                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | OTHER SOLVENTS                                                      |     |     |     |     |     |     |     |     |     |     |                          | DMF: 200<br>NMP: 500<br>DMAc: 500<br>2-methoxyethanol: 10<br>Others: 500                                                             |                            |                    |                                                                                             |
| UV STABILIZERS                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     | X   | X   | X   |     |     |     |     |     |     |     | mg/Kg                    | 1000; 100 (uv 328)                                                                                                                   |                            |                    | ISO 14389; GB/T 20388 (fabrics)<br>EN 14372 cl. 6.3.2 (accessories)                         |
| STYRENE                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                     | X   |     |     |     |     |     |     |     |     |     | mg/Kg                    | 500                                                                                                                                  |                            |                    |                                                                                             |
| PACKAGING                                                                                                                                                                                                                                                                                                                                                                                                                           | BUTYLATED HYDROXYTOLUENE (BHT)                                      |     |     |     |     |     |     |     |     | X   |     | mg/kg                    | 25                                                                                                                                   |                            | 5                  | ASTM D4275                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | MOAH CONSISTING OF 1 TO 7 AROMATIC RINGS*                           |     |     |     |     |     |     |     |     | X   |     | mg/kg                    | < 10000<br>From 1 January 2025 < 1000 and < 1 for MOAH compounds containing 3 to 7 aromatic rings                                    |                            | 5                  | HPLC-GC-FID method                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | MOSH CONSISTING OF 16 TO 35 CARBON ATOMS*                           |     |     |     |     |     |     |     |     | X   |     | mg/kg                    | < 1000                                                                                                                               |                            | 5                  |                                                                                             |
| *Suppliers must inform the packaging and/or printing companies they use of the MOSH/MOAH restrictions, so that these companies can determine, in consultation with printing ink manufacturers, which printing inks are permitted (free of MOSH/MOAH) pursuant to the Arrêté of 13 April 2022. A declaration of conformity, although not yet required, will be necessary in future under the forthcoming EU Regulation on packaging. |                                                                     |     |     |     |     |     |     |     |     |     |     |                          |                                                                                                                                      |                            |                    |                                                                                             |
| FEATHERS AND DOWN                                                                                                                                                                                                                                                                                                                                                                                                                   | OIL AND GREASE CONTENT                                              |     |     |     |     |     |     |     |     |     | X   | %                        | 0.5 - 2                                                                                                                              |                            |                    | EN 1163                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | OXYGEN NUMBER                                                       |     |     |     |     |     |     |     |     |     | X   | mg O <sub>2</sub> /100 g | 10                                                                                                                                   |                            |                    | ASTM D-4522; JIS L1903; EN 1884                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | MICROBIOLOGICAL STATUS                                              |     |     |     |     |     |     |     |     |     | X   | CFU/g                    | Aerobic mesophilic bacteria 1,000,000<br>Faecal streptococci 100<br>Sulphite-reducing clostridia 100<br>Salmonella absent in 20 g    |                            |                    | EN 1884                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     | TURBIDITY                                                           |     |     |     |     |     |     |     |     |     |     | X                        | mm                                                                                                                                   | ≥ 500                      |                    |                                                                                             |

N.D.\*: Not detected value

## 1.3 ADDITIONAL REQUIREMENTS FOR CHILDREN'S PRODUCTS FOR THE US MARKET

The following table shows additional chemical safety requirements provided for in certain US states with reference to all products intended for children up to 12 years of age, in addition to the requirements set out in the previous tables. Suppliers whose products are intended for children up to 12 years of age on the US market are required to comply, in addition to the requirements set out in the previous tables, also with those provided for the substances indicated in the following table.

| SUBSTANCE                                                                     | CAS         | UNIT OF MEASURE | LIMIT |
|-------------------------------------------------------------------------------|-------------|-----------------|-------|
| 1,4-Dioxane                                                                   | 123-91-1    | mg/kg           | 20.0  |
| 2-Ethylhexanoic acid                                                          | 149-57-5    |                 | 5.0   |
| 2-Ethyl-hexyl-4-methoxycinnamate                                              | 5466-77-3   |                 | 5.0   |
| 4-Hydroxybenzoic acid                                                         | 99-96-7     |                 | 5.0   |
| Acetaldehyde                                                                  | 75-07-0     |                 | 1.0   |
| Acrylonitrile                                                                 | 107-13-1    |                 | 1.0   |
| Benzophenone-2 (Bp-2)                                                         | 131-55-5    |                 | 5     |
| Bis(chloromethyl)propane-1,3-diyltetrakis-(2-chloroethyl) bis(phosphate) (V6) | 38051-10-4  |                 | 50.0  |
| Bisphenol A (BPA)                                                             | 80-05-7     |                 | 1.0   |
| Bisphenol F (BPF)10                                                           | 620-92-8    |                 | 1.0   |
| Bisphenol S10 (BPS)                                                           | 80-09-1     |                 | 1.0   |
| Butyl paraben                                                                 | 94-26-8     |                 | 5.0   |
| Butylated hydroxyanisole (BHA)                                                | 25013-16-5  |                 | 10.0  |
| Carbon disulfide                                                              | 75-15-0     |                 | 1.0   |
| Chlorinated paraffins                                                         | 108171-26-2 |                 | 50.0  |
| Decabromodiphenyl ethane10(DBDPE)                                             | 84852-53-9  |                 | 50.0  |
| Estragole                                                                     | 140-67-0    |                 | 10.0  |
| Ethyl paraben                                                                 | 120-47-8    |                 | 5.0   |
| Ethylbenzene                                                                  | 100-41-4    |                 | 1.0   |
| Ethylene glycol                                                               | 107-21-1    |                 | 40.0  |
| Ethylene glycol monoethyl ether                                               | 110-80-5    |                 | 10.0  |
| Ethylhexyl diphenyl phosphate (EHDPP)                                         | 1241-94-7   |                 | 50.0  |
| Hexachlorobutadiene                                                           | 87-68-3     |                 | 5.0   |
| Isopropylated triphenyl phosphate (IPTPP)                                     | 68937-41-7  |                 | 50.0  |
| Methyl ethyl ketone                                                           | 78-93-3     |                 | 1.0   |
| Methyl paraben                                                                | 99-76-3     |                 | 5.0   |
| Phenol                                                                        | 108-95-2    |                 | 1.0   |
| Propyl paraben                                                                | 94-13-3     |                 | 5.0   |
| Styrene                                                                       | 100-42-5    |                 | 1.0   |
| Tricresyl phosphate (TCP)                                                     | 1330-78-5   |                 | 50.0  |
| Tri-n-butyl phosphate (TNBP)                                                  | 126-73-8    |                 | 50.0  |
| Triphenyl phosphate(TPP)                                                      | 115-86-6    |                 | 50.0  |

## SECTION 2: SAFETY REQUIREMENTS FOR OTB GROUP PRODUCTS

### 2.1 MECHANICAL SAFETY

#### 2.1.1. FOREWORD

All components and finished items supplied must guarantee a high level of protection for the health of children aged 0-14 in terms of mechanical safety. It is the supplier's responsibility to carry out, for all items supplied, a complete assessment of every mechanical risk element, based on the following standards and reference documents, in particular:

- EU: EN 14682:2014
- USA: ASTM F1816-97
- China: GB 31701:2015
- State of New York (A10866)
- New York General Business Law GBS § 391-bb
- State of Wisconsin (ATCP 139)
- China: GB/T 22704:2019
- China: GB/T 22705:2019
- China: GB/T 22702:2019
- Spain: UNE 40902 2022
- EU: CEN/TR 16792: 2014
- Sweden: Swedish Consumer Agency Agreement Concerning Drawstrings and Hoods on Children's Clothes
- Japan: JIS L 4129:2015
- South Korea, Special Act on Safety Management of Children's products
- Taiwan: CNS 15291:2021 Safety of Children's Clothing – Cords and Drawstrings on Children's Clothing – Specifications
- USA: 16 CFR 1500 e 1501.

Among the mechanical risk elements, the following are particularly noted:

| RISK ELEMENT                                                                                                                                                                                                    | REFERENCE STANDARD                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CORDS, DRAWSTRINGS, ETC.</b>                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                      |
| Threaded cords, cords and drawstrings, functional and decorative cords, rings, bows, straps, etc.                                                                                                               | USA: ASTM F1816-97; New York A10866; Wisconsin ATCP 139<br>EU: EN 14682:2014<br>China: GB/T 22704:2019; GB/T 22705:2019; GB/T 22702:2019; GB 31701:2015<br>Taiwan: CNS 15291:2021<br>South Korea: Special Act on Safety Management of Children's products<br>Japan: JIS L 4129:2015. |
| <b>DETACHABLE ELEMENTS</b>                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                      |
| Buttons, beads, sequins, pompoms, ribbons, bows, appliqués, zip pullers, end caps, etc.                                                                                                                         | EU: CEN/TR 16792: 2014<br>USA: 16 CFR 1500 e 1501<br>Spain: UNE 40902 2022<br>China: GB 31701:2015<br>South Korea: Safety Standards for Household Products - Annex 1 (Household Textile Products); Special Act on Safety Management of Children's products.                          |
| <b>SHARP / POINTED PARTS</b>                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                      |
| Sharp parts: studs, pointed tips, pins, etc.                                                                                                                                                                    | EU: CEN/TR 16792: 2014<br>USA: 16 CFR 1500 e 1501<br>Spain: UNE 40902 2022<br>China: GB 31701:2015<br>South Korea: Special Act on Safety Management of Children's products.                                                                                                          |
| <b>OTHER RISK ELEMENTS</b>                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                      |
| Any other mechanical risk element, including but not limited to: zippers, hoods, heat-applied elements, embroidery, sewing threads, elastic cuffs, magnets, batteries, velcro, mesh linings in men's underwear. | EU: CEN/TR 16792: 2014<br>USA: 16 CFR 1500 e 1501<br>Sweden: Swedish Consumer Agency Agreement Concerning Drawstrings and Hoods on Children's Clothes<br>China: GB 31701:2015.                                                                                                       |

The tables on the following pages show the mechanical safety requirements required by law in **the EU, China, Japan, Taiwan and the USA**. The requirements indicated for the **EU** also satisfy the parameters set out in **Korea**.

The information provided below is intended as a guide for better understanding and does not replace the cited standards.

Unless otherwise specified by OTB Spa, it is currently mandatory to ensure compliance with the requirements provided for the EU.

### 2.1.2 GLOSSARY

The following table clarifies the terms used in the document and their respective definitions.

| TERM                        | DEFINITION                                                                                                                                                                                                                               |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NECK                        | Head, neck, chest.                                                                                                                                                                                                                       |
| WAIST                       | Chest and waist.                                                                                                                                                                                                                         |
| SLEEVES                     | Right and left sleeve of a garment.                                                                                                                                                                                                      |
| BOTTOM HEM                  | Lower end of a garment.                                                                                                                                                                                                                  |
| BACK                        | Back.                                                                                                                                                                                                                                    |
| AREAS NOT COVERED ELSEWHERE | When indications for the risk element have already been provided with reference to specific areas of the body or garment, the term “areas not covered elsewhere” refers to further areas of the body or garment not expressly mentioned. |
| ALL AREAS                   | These are general requirements, applicable when no specifications are provided with reference to a specific area of the body or garment.                                                                                                 |

### 2.1.3 SIZE DEFINITION

In the absence of harmonized standards for textile clothing sizes, the reference ages and sizes shown are those cited in the standards.

The standards of the **EU and China** indicate **months or years of age**, corresponding to the values in cm indicated in the following table.

Otherwise, the **the USA** standard refers to **sizes**; the indications provided by the CPSC are shown in the table for information purposes.

| COUNTRY     | AGE RANGE |              | AGE RANGE |         | AGE RANGE |       |            |
|-------------|-----------|--------------|-----------|---------|-----------|-------|------------|
|             | MONTHS    | CM           | YEARS     | CM      | YEARS     | SEX   | CM         |
| EU<br>KOREA | 0-12      | ≤80 cm       | 3-6 years | ≤134 cm | 7-14      | boys  | >134 ≤ 182 |
|             |           |              |           |         |           | girls | >134 ≤ 176 |
|             | 12-36     | >80 - ≤98 cm |           | ≤133 cm | 7-14      | boys  | >133 ≤ 180 |
|             |           |              |           |         |           | girls | >133 ≤ 175 |
| CHINA       | 0-36      | ≤100 cm      |           | ≤130 cm | 7-14      | boys  | >131 - 160 |
|             |           |              |           |         |           | girls | >131 - 155 |

|                               |           |         |          |         |          |         |
|-------------------------------|-----------|---------|----------|---------|----------|---------|
| the USA<br>(CPSC indications) | 18 months | size 2T | 10 years | size 12 | 14 years | size 16 |
|-------------------------------|-----------|---------|----------|---------|----------|---------|

## 2.1.4. RISK ELEMENTS AND APPLICABLE RESTRICTIONS

## 2.1.4.1. CORDS, DRAWSTRINGS

| BODY AREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | AGE RANGE / SIZE  | REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | STANDARD                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>1) FUNCTIONAL CORD</b><br><b>Definition:</b> cords, chains, textile or non-textile laces, with or without embellishments such as pompoms, feathers, beads, <u>used to allow the closure or fastening of the garment or part of it</u><br><b>General requirements applicable to all functional cords:</b><br>no knot or three-dimensional embellishment allowed* along the free ends.<br>Secure the end part, for example with heat treatment or a stitch, to prevent fraying.<br><i>*From here on, three-dimensional embellishment means a decorative element applied to a cord, wider or thicker than the cord itself.</i> |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |
| NECK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0-6               | NOT ALLOWED 0-6 YEARS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EN 14682: 2014                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7-14              | Not allowed made of elastic material.<br>Must not exceed <b>7,5 cm</b> in length.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | USA size 12/16    | NOT ALLOWED UP TO SIZE 12 at the federal level.<br>NOT ALLOWED UP TO SIZE 16 in the state of Wisconsin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASTM F1816-97<br>Wisconsin ATCP 139                                                  |
| BACK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0-14              | Functional cords that emerge from the back or are designed to be tied at the back are not allowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EN 14682: 2014                                                                       |
| SLEEVES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0-6               | SHORT SLEEVES [above the elbow]:<br>Maximum length of <b>7,5 cm</b> when the sleeve is open at its maximum width and laid flat.                                                                                                                                                                                                                                                                                                                                                                                                                                            | EN 14682: 2014                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7-14              | SHORT SLEEVES [above the elbow]:<br>maximum length of <b>14 cm</b> when the sleeve is open at its maximum width and laid flat.                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0-14              | LONG SLEEVES:<br>at the bottom hem: must not be external to the garment when the sleeve is closed<br>below the elbow: maximum length <b>7,5 cm</b> ; the free ends must not hang beyond the bottom hem.                                                                                                                                                                                                                                                                                                                                                                    |                                                                                      |
| WAIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0-14              | <u>For garments worn from the waist down, a distinction is made between:</u><br><b>Fitted garments</b> by their nature and function, without straps, suspenders or sleeves, e.g.: trousers, shorts, skirts, briefs, bikini bottoms<br><b>Other garments:</b> shirts, coats, dresses, dungarees.<br><b>Requirements:</b><br>Maximum length of free ends <b>20 cm for fitted garments</b><br>Maximum length of free ends <b>14 cm for other garments</b> (non-fitted).<br>Functional cords that emerge from the back or are designed to be tied at the back are not allowed. | EN 14682: 2014                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0-14              | Maximum length of free ends <b>14 cm</b> , both inside and outside the garment, including any decorative parts.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | JIS L 4129:2015                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Up to USA size 16 | Free ends must not protrude more than <b>7.5 cm</b> when the garment is open at its maximum width (outerwear such as a sweatshirt or jacket <sup>a</sup> ; trousers or skirts <sup>b</sup> ); no knot or three-dimensional embellishment allowed at the end part.                                                                                                                                                                                                                                                                                                          | ASTM F1816-97 <sup>a</sup><br>New York General Business Law GBS § 391-b <sup>b</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0-14              | The free ends must not hang below the bottom hem when untied.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | GB 31701:2015                                                                        |
| BOTTOM HEMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0-14              | HEM BELOW THE CROTCH:<br>must not hang below the hem, including any aglet;<br>When fastened it must be close-fitting to the garment.                                                                                                                                                                                                                                                                                                                                                                                                                                       | EN 14682: 2014                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | ANKLE HEM (trouser coat, skirt, etc.): must not be external to the garment.<br>Gaiters are permitted at the bottom of trousers.                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |
| AREAS NOT COVERED ELSEWHERE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0-14              | Must not protrude more than <b>14 cm</b> when the garment is open at its maximum width and laid flat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                      |

| BODY AREA                                                                                                                                                                                                                                                   | AGE RANGE / SIZE | REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                    | STANDARD        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>2) DECORATIVE CORD</b>                                                                                                                                                                                                                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| <b>Definition:</b> cords, chains, textile or non-textile laces, with or without embellishments such as pompoms, feathers, beads, <u>used exclusively to decorate</u> the garment or accessory.                                                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| NECK                                                                                                                                                                                                                                                        | 0-6              | NOT ALLOWED 0-6 YEARS on the hood or in the area behind the neck.<br>In other parts of the neck/chest, allowed with maximum length of free ends of <b>7.5 cm</b> , without knots, aglets or other three-dimensional embellishments and provided they cannot be tied in front of the throat<br>Decorative cords must not be made of elastic material.                                                                            | EN 14682: 2014  |
|                                                                                                                                                                                                                                                             | 7-14             | Not allowed made of elastic material.<br>Must not exceed <b>7.5 cm</b> in length, including any added elements or embellishments.                                                                                                                                                                                                                                                                                               |                 |
|                                                                                                                                                                                                                                                             | 0-6              | Not allowed.                                                                                                                                                                                                                                                                                                                                                                                                                    | JIS L 4129:2015 |
| BACK                                                                                                                                                                                                                                                        | 0-14             | Decorative cords are allowed with a maximum length of <b>7.5 cm</b> provided they have no knots, aglets or three-dimensional embellishments.                                                                                                                                                                                                                                                                                    | EN 14682: 2014  |
|                                                                                                                                                                                                                                                             | 0-14             | Decorative cords that emerge from the back or are designed to be tied at the back are not allowed                                                                                                                                                                                                                                                                                                                               | JIS L 4129:2015 |
| SLEEVES                                                                                                                                                                                                                                                     | 0-6              | SHORT SLEEVES [above the elbow]:<br>maximum length of <b>7.5 cm</b> when the sleeve is open at its maximum width and laid flat.                                                                                                                                                                                                                                                                                                 | EN 14682: 2014  |
|                                                                                                                                                                                                                                                             | 7-14             | SHORT SLEEVES [above the elbow]:<br>maximum length of <b>14 cm</b> when the sleeve is open at its maximum width and laid flat.                                                                                                                                                                                                                                                                                                  |                 |
|                                                                                                                                                                                                                                                             | 0-14             | LONG SLEEVES:<br>At the bottom hem: must not be external to the garment when the sleeve is closed;<br>Below the elbow: maximum length <b>7.5 cm</b> ; the free ends must not hang beyond the hem.                                                                                                                                                                                                                               |                 |
|                                                                                                                                                                                                                                                             | 0-14             | Cords must not hang beyond the sleeve hem and must be secured by stitching or another method so that they cannot be easily untied.                                                                                                                                                                                                                                                                                              | JIS L 4129:2015 |
|                                                                                                                                                                                                                                                             | 0-14             | Cords must not hang beyond the sleeve hem.                                                                                                                                                                                                                                                                                                                                                                                      | GB 31701:2015   |
| WAIST                                                                                                                                                                                                                                                       | 0-14             | For garments worn from the waist down, a distinction is made between:<br><b>Fitted garments</b> by their nature and function, without straps, suspenders or sleeves, e.g.: trousers, shorts, skirts, briefs, bikini bottoms<br><b>Other garments:</b> shirts, coats, dresses, dungarees.<br><b>Requirements:</b><br>maximum length of free ends <b>14 cm for fitted and non-fitted garments</b> , including any embellishments. | EN 14682: 2014  |
|                                                                                                                                                                                                                                                             | 0-14             | The free ends must not hang below the bottom hem when untied.                                                                                                                                                                                                                                                                                                                                                                   | GB 31701:2015   |
|                                                                                                                                                                                                                                                             | 0-14             | Maximum length of free ends 14 cm, both inside and outside the garment, including any decorative parts.                                                                                                                                                                                                                                                                                                                         | JIS L 4129:2015 |
| BOTTOM HEMS                                                                                                                                                                                                                                                 | 0-14             | HEM BELOW THE CROTCH:<br>must not hang below the hem, including any aglet;<br>When fastened it must be close-fitting to the garment.                                                                                                                                                                                                                                                                                            | EN 14682: 2014  |
|                                                                                                                                                                                                                                                             |                  | ANKLE HEM (trouser coat, skirt, etc.):<br>must not be external to the garment.<br>Gaiters are permitted.                                                                                                                                                                                                                                                                                                                        |                 |
| AREAS NOT COVERED ELSEWHERE                                                                                                                                                                                                                                 | 0-14             | Must not protrude more than <b>14 cm</b> when the garment is open at its maximum width.                                                                                                                                                                                                                                                                                                                                         |                 |
| <b>3) THREADED CORD/DRAWSTRING</b>                                                                                                                                                                                                                          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| <b>Definition:</b> cords, chains, textile or non-textile laces, with or without embellishments such as pompoms, feathers, beads, that <u>pass through a channel</u> or a similar loop to allow the <u>closing or fastening</u> of the garment or part of it |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| <b>General requirements applicable to all threaded cords:</b>                                                                                                                                                                                               |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| no knot or three-dimensional embellishment allowed along the free ends of threaded cords with free ends.                                                                                                                                                    |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| Secure the end part, for example with heat treatment or a stitch, to prevent fraying.                                                                                                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| Where allowed, threaded cords must be secured to the garment at at least one point, e.g. by stitching, equidistant from the exit points.                                                                                                                    |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| Aglets are only allowed on threaded cords without free ends.                                                                                                                                                                                                |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |

| BODY AREA   | AGE RANGE / SIZE  | REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | STANDARD                                                     |
|-------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| NECK        | 0-6               | NOT ALLOWED 0-6 YEARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EN 14682: 2014                                               |
|             | 7-14              | No protruding loop when the garment is open at its maximum width and laid flat.<br>Maximum circumference of protruding loop <b>15 cm</b> with the garment at size (at minimum width).<br>Free ends not allowed.<br>Aglets on threaded cords without free ends must be secured to the garment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                              |
|             | 7-14              | No protruding loop when the garment is open at its maximum width and laid flat.<br>Aglets on threaded cords without free ends must be secured to the garment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CNS 15291:2019                                               |
|             | USA size 12/16    | NOT ALLOWED UP TO SIZE 12 at the federal level.<br>NOT ALLOWED UP TO SIZE 16 in the state of Wisconsin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ASTM F1816-97<br>Wisconsin ATCP 139                          |
| BACK        | 0-14              | Threaded cords that emerge from the back or are designed to be tied at the back are not allowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EN 14682: 2014                                               |
| SLEEVES     | 0-6               | SHORT SLEEVES [above the elbow]:<br>maximum length of <b>7.5 cm</b> when the sleeve is open at its maximum width and laid flat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |
|             | 7-14              | SHORT SLEEVES [above the elbow]:<br>maximum length of <b>14 cm</b> when the sleeve is open at its maximum width and laid flat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                              |
|             | 0-14              | LONG SLEEVES:<br>At the bottom hem: must not be external to the garment when the sleeve is closed<br>Below the elbow: maximum length <b>7.5 cm</b> ; the free ends must not hang beyond the hem.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |
| WAIST       | 0-14              | For garments worn from the waist down, a distinction is made between:<br><b>Fitted garments</b> by their nature and function, without straps, suspenders or sleeves, e.g.: trousers, shorts, skirts, briefs, bikini bottoms<br><b>Other garments:</b> shirts, coats, dresses, dungarees.<br><b>Requirements:</b><br>THREADED CORDS WITH FREE ENDS:<br>maximum length of free ends <b>20 cm</b> for <b>fitted garments</b> with the garment in a relaxed position<br>maximum length of free ends <b>14 cm</b> for <b>other garments</b> with the garment open at its maximum width and laid flat.<br>THREADED CORDS WITHOUT FREE ENDS:<br>no protruding loop for <b>fitted and non-fitted garments</b> when the garment is open at its maximum width and laid flat;<br>aglets on threaded cords without free ends must be secured to the garment. | EN 14682: 2014                                               |
|             | 0-14              | Maximum length of free ends <b>20 cm for fitted garments</b> .<br>Maximum length of free ends <b>14 cm for other garments</b> (non-fitted).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CNS 15291:2019                                               |
|             | 0-14              | Maximum length of free ends 14 cm, when the garment is open at its maximum width. Threaded cords without free ends: maximum circumference of protruding loop 28 cm with the garment at size. Any eyelet of the threaded cords must be firmly secured inside the garment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | JIS L 4129:2015                                              |
|             | Up to USA size 16 | Secure it with a stitch equidistant from the exit points.<br>Free ends must not protrude more than <b>7.5 cm</b> when the garment is open at its maximum width (outerwear such as a sweatshirt or jacket <sup>c</sup> ; trousers or skirts <sup>d</sup> ).<br>No knot or three-dimensional embellishment allowed at the end part.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASTM F1816-97 <sup>c</sup><br>State of New York <sup>d</sup> |
|             | 0-14              | The free ends must not hang below the bottom hem when untied.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | GB 31701:2015                                                |
| BOTTOM HEMS | 0-14              | HEM BELOW THE CROTCH:<br>Must not hang below the hem, including any aglet;<br>When fastened it must be close-fitting to the garment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EN 14682: 2014                                               |
|             |                   | ANKLE HEM (trouser coat, skirt, etc.):<br>Must not be external to the garment.<br>Gaiters are permitted on trousers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                              |

| BODY AREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | AGE RANGE / SIZE  | REQUIREMENTS                                                                                                                                                                                                                                                               | STANDARD                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| AREAS NOT COVERED ELSEWHERE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0-14              | Must not protrude more than <b>14 cm</b> when the garment is open at its maximum width and laid flat.                                                                                                                                                                      |                                  |
| <b>4) TIE BELT/SASH</b><br><b>Definition:</b> threaded cords, functional or decorative cords, strips of textile material at least 3 cm wide that <u>tie</u> around the waist or chest; may or may not encircle the entire body.<br><b>General requirements applicable to all tie belts/sashes:</b><br>not less than <b>3 cm</b> wide (otherwise it falls within the definition of functional cord or threaded cord)<br>No knot or three-dimensional embellishment allowed along the free ends.<br>Secure the end part, for example with heat treatment or a stitch, to prevent fraying. |                   |                                                                                                                                                                                                                                                                            |                                  |
| BACK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0-6               | The ends must not exceed <b>36 cm</b> in length when untied and measured from the point where they are to be tied, and must not protrude beyond the hem of the garment when untied.                                                                                        | EN 14682: 2014                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7-14              | The ends must not exceed <b>36 cm</b> in length when untied and measured from the point where they are to be tied.                                                                                                                                                         |                                  |
| WAIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0-6               | BACK OF THE BODY:<br>the free ends must not protrude beyond the hem of the garment when untied; Maximum length <b>36 cm</b> measured from the point where they are to be tied.                                                                                             |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7-14              | BACK OF THE BODY<br>the ends must not exceed <b>36 cm</b> in length when untied and measured from the point where they are to be tied.                                                                                                                                     |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0-14              | FRONT/SIDES OF THE BODY<br>the free ends must not exceed <b>36 cm</b> in length when untied and measured from the point where they are to be tied.                                                                                                                         |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0-14              | The free ends must not hang below the bottom hem when untied.                                                                                                                                                                                                              | GB 31701:2015                    |
| <b>5) TOGGLE / ADJUSTER TAB</b><br><b>Definition:</b> Strip of fabric not less than 2 cm wide used to adjust the opening size of the garment, for example the sleeves or ankles.                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                            |                                  |
| NECK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0-14              | Must not exceed <b>7.5 cm</b> in length.<br>Buttons, aglets or buckles are not allowed on the free ends.                                                                                                                                                                   | EN 14682: 2014<br>CNS 15291:2019 |
| SLEEVES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0-14              | LONG SLEEVES [below the elbow] AND SHORT SLEEVES [above the elbow]:<br>when unfastened must not protrude beyond the sleeve hem.<br>Must not exceed <b>10 cm</b> in length.                                                                                                 | EN 14682: 2014                   |
| BACK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0-14              | Must not exceed <b>7.5 cm</b> in length.<br>Must not hang below the hem.<br>Buttons, aglets or buckles that could pose a risk are not allowed on the free ends.                                                                                                            | EN 14682: 2014                   |
| WAIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0-14              | The free ends must not exceed <b>14 cm</b> in length.                                                                                                                                                                                                                      | EN 14682: 2014                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Up to USA size 16 | Free ends must not protrude more than <b>7.5 cm</b> when the garment is open at its maximum width (outerwear such as a sweatshirt or jacket).<br>No knot or three-dimensional embellishment allowed at the end part, if it corresponds to the definition of threaded cord. | ASTM F1816-97                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0-14              | The free ends must not hang below the bottom hem when untied.                                                                                                                                                                                                              | GB 31701:2015                    |
| BOTTOM HEMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0-14              | Must not exceed <b>14 cm</b> in length.<br>Must not hang below the hem.<br>Buttons, aglets or buckles that could pose a risk are not allowed on the free ends.                                                                                                             | EN 14682: 2014                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | If arranged horizontally, adjuster tabs must not exceed 10 cm in length.                                                                                                                                                                                                   | JIS L 4129:2015                  |
| <b>6) FABRIC LOOP/RING/BOW</b><br><b>Definition:</b> any type of loop made of fabric, knit or other textile material, applied to and protruding from the garment (e.g. fixed loop of a bow). <u>The circumference is measured.</u>                                                                                                                                                                                                                                                                                                                                                      |                   |                                                                                                                                                                                                                                                                            |                                  |
| ALL AREAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0-14              | Fixed loops protruding from the garment not exceeding <b>7.5 cm</b> in circumference.                                                                                                                                                                                      | EN 14682: 2014                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0-14              | Hanger loops are allowed inside the garment, subject to a risk assessment.                                                                                                                                                                                                 | EN 14682: 2014                   |

| BODY AREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AGE RANGE / SIZE | REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | STANDARD                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0-14             | Fixed loops protruding from the garment not exceeding <b>7.5 cm</b> in circumference.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | GB 31701:20                        |
| <b>7) LOOP OPENING</b><br><b>Definition:</b> An opening resulting from the application of a strip of fabric attached to the garment by stitching (e.g. belt loop). The length between stitches is measured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |
| ALL AREAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0-14             | Loop opening not exceeding <b>7.5 cm</b> in length between fastening stitches.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EN 14682: 2014                     |
| <b>8) ZIP PULLER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |
| ALL AREAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0-14             | The zip puller must not hang beyond the hem; maximum length <b>7,5 cm</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EN 14682: 2014                     |
| <b>9) STRAP</b><br><b>Definition:</b><br><ul style="list-style-type: none"> <li>- STRAP: cord, chain, ribbon, thread or tape, of any textile or non-textile material, including elastic material that joins the front and back of the garment and passes over the shoulder, or around the neck in the case of halter straps (e.g. bikini).</li> <li>- HALTER STRAP: cord, chain, ribbon, thread or tape, of any textile or non-textile material, including elastic material, worn passing behind the neck, which supports the upper part of a garment (e.g. dress, blouse, bikini) leaving the shoulders and back bare.</li> </ul> <b>General requirements applicable to straps and halter straps:</b><br>May be made of elastic material. |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |
| NECK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0-6              | <b>Straps:</b><br>Must be designed so as not to have free ends on the outside of the garment<br>Decorative cords are allowed with a maximum length of free ends of <b>7.5 cm</b><br>May be permanently fixed at the front and back, or applied using buttons, snap fasteners, etc. to allow length adjustment, provided the free ends are inside the garment.                                                                                                                                                                                                             | CEN/TR 16792:2014<br>EN 14682:2014 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0-6              | Must be permanently fixed to the front and back of the garment, so as not to have free ends.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | JIS L 4129:2015                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0-14             | <b>Straps:</b><br>Fixed loops are allowed with a maximum circumference of <b>7.5 cm</b> .<br><b>Halter straps:</b><br>Free ends are not allowed in the neck and throat area.<br>To join halter straps, the use of clips or other systems is allowed, provided there are no free ends when the garment is worn.<br><b>Both:</b><br>The use of rings and sliding closure systems on straps and halter straps is allowed, provided that any resulting loop is close-fitting to the body when worn (in this case the requirements for flat loops/loop openings do not apply). | CEN/TR 16792:2014<br>EN 14682:2014 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7-14             | <b>Straps:</b><br>Maximum length of free ends <b>14 cm</b> from the point where the straps are tied.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0-14             | <b>Halter straps:</b><br>Must be designed so as not to have free ends on the outside of the garment.<br>To join halter straps, the use of clips or other systems is allowed, provided there are no free ends when the garment is worn.                                                                                                                                                                                                                                                                                                                                    | CNS 15291:2019                     |

## 2.1.4.2. DETACHABLE ELEMENTS

| BODY AREA                                    | AGE RANGE / SIZE | REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | STANDARD                                                                                                 |                                                                                                                                                                |
|----------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10) SMALL DETACHABLE PARTS                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                |
| ALL AREAS                                    | 0-36 M           | Must remain firmly attached.<br><b>Grippable</b> (except sequins)<br>Parts contained in a cube of ≥ 6 mm per side: 70 N<br>Parts contained in a cube > 3 mm and <6 mm per side: 50 N<br>Parts contained in a cube ≤3 mm per side: negligible changes following aggressive washing.<br><b>Non-grippable</b> (including sequins, heat-applied or glued elements, plastic end caps of cords or laces): negligible changes following aggressive washing.                                                                                                                        | CEN/TR 16792:2014<br>UNE 40902:2022                                                                      |                                                                                                                                                                |
|                                              |                  | Small textile parts that fit within the cylinder: negligible changes following aggressive washing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                          |                                                                                                                                                                |
| 11) BUTTON                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                |
| ALL AREAS                                    | 0-14             | Only buttons that have passed the mechanical properties test of the standards indicated on the right may be used.<br>Buttons resembling food products (e.g. strawberry, apple, etc.) are prohibited.<br>Buttons with sharp edges are prohibited.<br><b>Snap fasteners:</b><br>Do not use buttons with prongs on knitted fabrics (risk of detachment)<br>Do not apply buttons on seams or uneven surfaces (risk of detachment)<br>Use sizes proportionate to the fabric thickness; use reinforcement if necessary<br>Use buttons compatible with the broken needle detector. | CEN/TR 16792:2014<br>UNE 40902:2022                                                                      |                                                                                                                                                                |
|                                              |                  | 0-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                          | Must not be present before and after use and abuse testing (16 CFR 1500.50-53):<br>a) small parts in products intended for children ≤3 years old (16 CFR 1501) |
|                                              | 0-8              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | b) sharp points and sharp edges in products intended for children ≤ 8 years old (16 CFR 1500.48 and 49). |                                                                                                                                                                |
|                                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                |
| 12) SEQUIN, BEAD, RHINESTONE, DIAMANTE, ETC. |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                |
| ALL AREAS                                    | 0-3              | Secure with at least three firm machine stitches.<br>Manual applications and chain stitches are not recommended.<br>Sequins must be sewn flat.                                                                                                                                                                                                                                                                                                                                                                                                                              | CEN/TR 16792:2014                                                                                        |                                                                                                                                                                |
|                                              |                  | Must remain firmly attached.<br><b>Grippable</b> (tranne paillettes)<br>Parts contained in a cube of ≥ 6 mm per side: 70 N<br>Parts contained in a cube > 3 mm and <6 mm per side: 50 N<br>Parts contained in a cube ≤3 mm per side: negligible changes following aggressive washing.<br><b>Non-grippable</b> (including sequins, heat-applied or glued elements, plastic end caps of cords or laces): negligible changes following aggressive washing.                                                                                                                     | GB 31701:2015                                                                                            |                                                                                                                                                                |
|                                              | 0-3              | Must not be present before and after use and abuse testing (16 CFR 1500.50-53):<br>a) small parts in products intended for children ≤3 years old (16 CFR 1501)                                                                                                                                                                                                                                                                                                                                                                                                              | 16 CFR 1500 and 1501                                                                                     |                                                                                                                                                                |
|                                              |                  | 0-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                          | b) sharp points and sharp edges in products intended for children ≤8 years old (16 CFR 1500.48 and 49).                                                        |
|                                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                |
|                                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                |
| 13) SHARP PART: POINT, STUD, PIN, ETC.       |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                |
| ALL AREAS                                    | 0-36 M           | There must be no sharp or pointed elements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UNE 40902                                                                                                |                                                                                                                                                                |
|                                              | 0-14             | There must be no sharp or pointed elements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CEN/TR 16792: 2014                                                                                       |                                                                                                                                                                |
|                                              | 0-3              | Must not be present before and after use and abuse testing (16 CFR 1500.50-53):<br>a) small parts in products intended for children ≤ 3 years old (16 CFR 1501)                                                                                                                                                                                                                                                                                                                                                                                                             | 16 CFR 1500 and 1501                                                                                     |                                                                                                                                                                |
|                                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                          |                                                                                                                                                                |

| BODY AREA                          | AGE RANGE / SIZE | REQUIREMENTS                                                                                             | STANDARD             |
|------------------------------------|------------------|----------------------------------------------------------------------------------------------------------|----------------------|
|                                    | 0-8              | b) sharp points and sharp edges in products intended for children ≤ 8 years old (16 CFR 1500.48 and 49). |                      |
| 14) POMPOM, RIBBON, BOW, ETC.      |                  |                                                                                                          |                      |
| ALL AREAS                          | 0-3              | Pompoms and tassels must be constructed so that the threads are not easily removable.                    | CEN/TR 16792:2014    |
|                                    | 0-3              | Must not be present before and after use and abuse testing (16 CFR 1500.50-53):                          | 16 CFR 1500 and 1501 |
|                                    |                  | a) small parts in products intended for children ≤ 3 years old (16 CFR 1501)                             |                      |
|                                    | 0-8              | b) sharp points and sharp edges in products intended for children ≤ 8 years old (16 CFR 1500.48 and 49). |                      |
| 15) END CAPS OF CORDS, LACES, ETC. |                  |                                                                                                          |                      |
| ALL AREAS                          | 0-14             | Must guarantee a holding strength of 100 N. Test method GB/T 22704 Annex D.                              | GB/T 22704:2019      |

### 2.2.4.3. OTHER DESIGN ELEMENTS

| BODY AREA                      | AGE RANGE / SIZE | REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                        | STANDARD                |
|--------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 16) HOOD                       |                  |                                                                                                                                                                                                                                                                                                                                                                                                     |                         |
| NECK                           | 0-12 M           | Consider inserting an interlining for 0-12 months to reduce the risk of suffocation; hoods must not be deep and must not cover the face.                                                                                                                                                                                                                                                            | CEN/TR 16792:2014       |
|                                | 1-14             | Assess the risk of visual and hearing impairment (children engaged in activities unsupervised by adults).                                                                                                                                                                                                                                                                                           |                         |
|                                | 1-14             | On outerwear items size >80cm ≤170 cm, all hoods must be detachable (e.g. fastened with snap fasteners, velcro; zippers are prohibited).                                                                                                                                                                                                                                                            | Swedish Consumer Agency |
|                                | 0-3              | Prohibited in sleepwear.                                                                                                                                                                                                                                                                                                                                                                            | GB/T 1553.5             |
| 17) ZIPPER                     |                  |                                                                                                                                                                                                                                                                                                                                                                                                     |                         |
| WAIST                          | 0-5              | Not recommended in trousers for children under 5 years old.<br>Plastic teeth and protective tape strips fixed at the base of the zipper and at least <b>2 cm</b> wide, are recommended due to the risk of penile entrapment.<br>In boys' garments intended for children < 5 years old, the use of another closure system (velcro, elastic waistband) is recommended.                                | CEN/TR 16792:2014       |
| BOTTOM HEMS                    | 0-14             | The zip puller must not protrude beyond the hem.                                                                                                                                                                                                                                                                                                                                                    | EN 14682: 2014          |
| ALL AREAS                      | 0-14             | The zip puller must not protrude more than <b>7.5 cm</b> from the zipper slider.                                                                                                                                                                                                                                                                                                                    |                         |
| DESIGN                         | 0-14             | If the zipper is likely to come into contact with the skin, the use of a plastic zipper without pointed ends is recommended.<br>In the neck area, the use of a protective fabric insert is recommended<br>All boys' trousers with zippers in the waist area must use a protective insert at least <b>2 cm</b> wide, fixed by stitching at the bottom of the zipper to avoid the risk of entrapment. | CEN/TR 16792:2014       |
| ALL AREAS                      | 0-3              | Must not be present before and after use and abuse testing (16 CFR 1500.50-53):                                                                                                                                                                                                                                                                                                                     | 16 CFR 1500 and 1501    |
|                                |                  | a) small parts in products intended for children ≤ 3 years old (16 CFR 1501)                                                                                                                                                                                                                                                                                                                        |                         |
|                                | 0-8              | b) sharp points and sharp edges in products intended for children ≤ 8 years old (16 CFR 1500.48 and 49).                                                                                                                                                                                                                                                                                            |                         |
| 18) HEAT-APPLIED/GLUED ELEMENT |                  |                                                                                                                                                                                                                                                                                                                                                                                                     |                         |

| BODY AREA                                       | AGE RANGE / SIZE | REQUIREMENTS                                                                                                                                                                                                                                                                                                                               | STANDARD          |
|-------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| DESIGN                                          | 0-14             | Assess the holding strength, which may vary depending on:<br>a) the fabric surface (textured such as chenille, felt, velvet, ribbed, etc.)<br>b) the fabric's stretch<br>c) any particular finishes (e.g. anti-stain treatment)<br>d) construction elements.<br>Sharp points and sharp edges are prohibited.                               | CEN/TR 16792:2014 |
| 19) APPLIED ELEMENT/EMBROIDERY                  |                  |                                                                                                                                                                                                                                                                                                                                            |                   |
| DESIGN                                          | 0-14             | Verify that the stitch density cannot cause the element to detach.<br>Verify that the element does not alter on contact with laundry detergents or heat.<br>Verify that the inner side in contact with the skin does not present a risk of abrasion; use a lining or interlining if appropriate.<br>Do not use monofilament sewing thread. | CEN/TR 16792:2014 |
| 20) SEWING THREAD/FLOATING THREAD               |                  |                                                                                                                                                                                                                                                                                                                                            |                   |
| SLEEVES                                         | 0-12 M           | Do not use jacquard-type processing with floating threads longer than 10 mm in the sleeve and bottom hem area in garments intended for children under 12 months old (risk of ischemic injury and entrapment).                                                                                                                              | CEN/TR 16792:2014 |
|                                                 | 0-14             | Avoid sewing threads that protrude > 10 mm in the sleeve and bottom hem area<br>Do not use monofilament sewing thread (risk of ischemic injury or skin abrasions).                                                                                                                                                                         |                   |
| 21) STONEWASH                                   |                  |                                                                                                                                                                                                                                                                                                                                            |                   |
| DESIGN                                          | 0-36 months      | Any residues in the pockets or cuffs of garments intended for children < 36 months old present a risk of suffocation, so the use of alternative processes (enzymatic treatments) is recommended                                                                                                                                            | CEN/TR 16792:2014 |
| 22) MAGNET                                      |                  |                                                                                                                                                                                                                                                                                                                                            |                   |
| ALL AREAS                                       | 0-14             | Always prohibited                                                                                                                                                                                                                                                                                                                          | CEN/TR 16792:2014 |
| 23) ELASTIC CUFF                                |                  |                                                                                                                                                                                                                                                                                                                                            |                   |
| ALL AREAS                                       | 0-14             | Must not be excessively tight (risk of reduced blood circulation).                                                                                                                                                                                                                                                                         | CEN/TR 16792:2014 |
| 24) MESH LINING IN MEN'S SWIMWEAR               |                  |                                                                                                                                                                                                                                                                                                                                            |                   |
| WAIST                                           | 0-14             | Assess the risk of genital entrapment in the mesh.                                                                                                                                                                                                                                                                                         | CEN/TR 16792:2014 |
| 25) VELCRO AND MECHANICAL HOOK-AND-LOOP CLOSURE |                  |                                                                                                                                                                                                                                                                                                                                            |                   |
| DESIGN                                          | 0-14             | Apply the hook part facing away from the skin due to the risk of abrasion; use die-cut velcro with rounded ends to avoid the risk of abrasion.                                                                                                                                                                                             | CEN/TR 16792:2014 |
| 26) HANGER LOOP                                 |                  |                                                                                                                                                                                                                                                                                                                                            |                   |
| NECK AND WAIST                                  | 0-14             | Sew so that it detaches easily in case of entrapment. Any label with a related warning requires a risk assessment.                                                                                                                                                                                                                         | CEN/TR 16792:2014 |
| 27) PERMANENT LABEL                             |                  |                                                                                                                                                                                                                                                                                                                                            |                   |
| FITTED GARMENTS                                 | 0-36             | Permanent labels in fitted garments must not be in contact with the skin.                                                                                                                                                                                                                                                                  | GB 31701: 2015    |

## 2.2 PHYSICAL SAFETY

### 2.3.1 FLAMMABILITY

#### 2.3.1.1 USA Flammability

**Mandatory for:** all adult and children's clothing (excluding children's sleepwear).

**Mandatory certification:** only for products intended for children, at a CPSC accredited laboratory.

**The test:** either the fabrics (before cutting and sewing) or the finished garment may be tested. The test is 16 CFR 1610.

**Exclusions:** excluded from the standard:

- hats
- gloves (if not longer than 14 inches ~ 35.6 cm)
- footwear
- interlinings.

Also **exempt from the testing requirement due to known fire behavior (but still subject to certification):**

- plain surface fabrics with a weight exceeding 2.6 ounces per square yard (~88 g/m<sup>2</sup>). It is recommended to carefully check the actual weight of the fabric
- fabrics, both plain surface and raised surface, made entirely or with a combination of the following fibers, regardless of weight: acrylic, modacrylic, nylon, olefin, polyester, wool.

**Requirements:** The method provides for 3 flammability classes determined based on burn times:

- class 1 = normal flammability
- class 2 = intermediate flammability
- class 3 = rapid and intense flammability.

| CLASS                     | PLAIN SURFACE FABRICS (*)                           | RAISED SURFACE FABRICS (**)                                                                                                                               |
|---------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1: ALLOWED</b>         | Flame spread time ≥ 3.5 seconds (127 mm of fabric). | Flame spread time > 7 seconds<br><u>or</u><br>Rapid surface flash (0-7 seconds) whose intensity does not affect the base fabric (it does not catch fire). |
| <b>2: ALLOWED</b>         | Not applicable.                                     | Flame spread time between 4 and 7 seconds <b>and</b> the base fabric catches fire or melts.                                                               |
| <b>3: SALE PROHIBITED</b> | Flame spread time < 3.5 seconds (127 mm of fabric). | Flame spread time < 4 seconds (127 mm of fabric) <b>and</b> the base fabric catches fire or melts.                                                        |

(\*) without raised fibers or yarns

(\*\*) with raised fibers or yarns

#### 16 CFR 1611 flammability requirements for plastic film

**Mandatory for:** textile bases coated with plastic film ≤ 0.254 mm used in adult and children's clothing.

**Mandatory certification:** only for products intended for children, at a CPSC accredited laboratory.

**Requirements:** plastic films used to make garments with a thickness ≤ 0.254 mm; textile base coated with plastic film (16 CFR 1610 test on textile base) → Flame spread < 3 cm per second.

#### CFR 1615 e 16 CFR 1616 standard per l'inflammabilità dell'abbigliamento da camera<sup>1</sup> children's (sizes 9 months – 6 and 7-14 years)

**Mandatory certification:** yes, accepted testing laboratory CPSC.

<sup>1</sup> Any garment designed for sleep or similar activities such as pajamas, nightgowns, dressing gowns or bathrobes.

**Mandatory certification:** yes, CPSC accredited laboratory.

**Requirements:** Children's sleepwear must be:

- flame resistant and self-extinguishing based on laboratory tests; or
- close-fitting ("tight fitting") and compliant with standard 16 CFR 1610 and 16 CFR 1611.

To be **close-fitting** sleepwear must have the following characteristics:

- must not exceed the maximum dimensions (chest/back, hips, sleeve and trouser width, wrists and ankles) specified in the standard
- must not have trims or finishes that protrude more than 0.635 cm (1/4 inch)
- sleeves must narrow from the shoulder toward the wrist
- trousers must narrow from the thigh toward the ankle
- if it consists of a single garment: it must narrow from the chest to the waist, and from the seat to the waist
- if it consists of two garments: the upper garment must narrow from the chest toward the bottom hem; if the upper garment has fastenings, the last fastening must be positioned within 15.2 cm of the bottom hem; the lower garment must narrow from the seat to the waist
- Must have a permanent label showing the garment size
- Must have a hangtag warning the consumer that the garment is not flame-resistant and must be close-fitting when worn, as loose-fitting garments catch fire more easily.

For child's safety, garment should fit snugly. This garment is not flame resistant. Loose-fitting garment is more likely to catch fire

### 2.3.1.2 European Union and United Kingdom Flammability

#### EUROPEAN UNION

##### Adults

Below is a summary of the flammability requirements applicable to **daywear** intended for **adults** in the EU.

In the absence of harmonized standards, reference is made to the rules in force in individual markets, without prejudice to the manufacturer's responsibility for the general safety of products.

|                            | STANDARD                                                                                                                                                                                                                                                                                                                                                                | LIMIT                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NETHERLANDS</b>         | <b>VWA CRITERIA</b><br>[TEST METHOD ASTM D1230]                                                                                                                                                                                                                                                                                                                         | 127 mm ≥ 4 sec                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>NORWAY</b>              | <b>DIRECTIVE ON PROHIBITION OF HIGHLY FLAMMABLE TEXTILES NR 427, 13/02/1984</b><br>[TEST METHOD ASTM D1230]                                                                                                                                                                                                                                                             | 127 mm ≥ 5 sec                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>SWEDEN</b>              | <b>KOVFS 1985:5</b><br><i>(Repealed but recommended)</i>                                                                                                                                                                                                                                                                                                                | 127 mm ≥ 5 sec                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>SWITZERLAND</b>         | <b>VERORDNUNG RS 817.023.41; Section 5; Article 16 et seq</b><br><b>Amended by the ordinance of 26 November 2008</b><br>[TEST METHOD EN 1103]                                                                                                                                                                                                                           | a) textile materials must be manufactured in such a way as not to present an excessive danger in terms of flammability and combustibility<br>b) garments and yarns for the manufacture of garments must be made in such a way as to prevent the flame from spreading rapidly over the surface of the fabric without at the same time burning the underlying structure of the fabric ("surface flash"). |
| <b>ALL OTHER COUNTRIES</b> | <i>There are no other technical standards, however the general principles of product safety are recalled <b>Directive 2001/95/EC</b> which requires the manufacturer or importer to inform consumers of the presence of risks and to provide the warnings necessary to avoid such risks (label wording KEEP AWAY FROM FIRE in the language of the country of sale).</i> |                                                                                                                                                                                                                                                                                                                                                                                                        |

##### Children

For textile materials used in **sleepwear**, the **technical standard EN 14878** regulates the flammability of items intended for **children** in all EU countries. In addition, in some countries there are **national standards** in force (see tables on the following pages).

| COUNTRY            | STANDARD                                                                                              | LIMIT                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>NETHERLANDS</b> | EN 14878.                                                                                             | (See details below in the section "EN 14878 2007: fire behavior of children's nightwear") |
| <b>NORWAY</b>      | DIRECTIVE ON PROHIBITION OF HIGHLY FLAMMABLE TEXTILES NR 427, 13/02/1984<br>[TEST METHOD ASTM D1230]. | 127 mm ≥ 7 sec.                                                                           |

| COUNTRY             | STANDARD                                                                                                                         | LIMIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SWEDEN              | EN 14878                                                                                                                         | (See section "EN 14878 2007: fire behavior of children's nightwear")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SWITZERLAND         | VERORDNUNG RS 817.023.41; Section 5; Article 16 et seq<br>Amended by the ordinance of 26 November 2008<br>[TEST METHOD EN 1103]. | <ul style="list-style-type: none"> <li>- <b>Fire behavior:</b> textile materials must be manufactured in such a way as not to present an excessive danger in terms of flammability and combustibility</li> <li>- <b>Surface flash:</b> garments, textile materials and yarns for the manufacture of garments must be made in such a way as to prevent the flame from spreading rapidly over the surface of the fabric without at the same time burning the underlying structure of the fabric ("surface flash").</li> </ul>                                                                                                                                                                                          |
| UNITED KINGDOM      | NIGHTWEAR SAFETY REGULATION, 1985                                                                                                | 300 mm in 25 sec and 600 mm in 50 sec<br><ul style="list-style-type: none"> <li>- <b>items included:</b> sleepwear intended for children from &gt; 3 months to &gt; 13 years old with the following dimensions:               <ul style="list-style-type: none"> <li>o nightgowns: chest &lt;91 cm; length &lt; 122 cm</li> <li>o dressing gowns, bathrobes and similar: chest &lt;97 cm and sleeve length &lt; 69 cm.</li> </ul> </li> <li>- <b>items excluded:</b> sleepwear made entirely (including seams, finishes and trims) of synthetic material that melts without decomposing on contact with fire.</li> </ul> Mandatory labeling: see details below in the "United Kingdom and Northern Ireland" Section. |
| NORTHERN IRELAND    | I.S. 148 FLAMMABILITY AND LABELLING REQUIREMENTS OF FABRICS AND FABRIC ASSEMBLIES USED IN CHILDREN'S NIGHTWEAR                   | The requirements are similar to those in force in the United Kingdom<br>(See details below in the "United Kingdom and Northern Ireland" Section.).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ALL OTHER COUNTRIES | EN 14878                                                                                                                         | (See details below in the section "EN 14878 2007: fire behavior of children's nightwear")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### EN 14878 2007: fire behavior of children's nightwear

The unified standard EN 14878 is applicable in **all EU countries that do not have specific provisions**.

**Items included:** all clothing sold as nightwear or intended to be worn as nightwear. For example, bathrobes, dressing gowns, pajamas, nightgowns.

**Items excluded:** baby clothing<sup>2</sup>.

**Test method:** EN 1103 (senza la procedura di lavaggio). Possono essere testati o i tessuti (prima del taglio e della cucitura) oppure l'indumento finito. Sono esclusi i fili di cucitura e le guarnizioni.

### EN 14878 FLAMMABILITY REQUIREMENTS

| CLASS | APPLICATION                              | PARAMETERS TO BE ASSESSED          | MINIMUM REQUIREMENTS                                                                 |
|-------|------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|
| A     | Children's sleepwear (excluding pajamas) | Flame spread time<br>Surface flash | Flame spread time at the 3rd marked thread (52 cm): > 15 seconds<br>No surface flash |

<sup>2</sup> Infants: < 6 months and < 68 cm

|   |                                                                                                                                             |              |                                                                                      |
|---|---------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------|
| B | Children's pajamas if they meet the design characteristics specified in the standard <sup>3</sup> . Otherwise they must comply with class A |              | Flame spread time at the 3rd marked thread (52 cm): > 10 seconds<br>No surface flash |
| C | Baby sleepwear                                                                                                                              | No parameter | No requirement                                                                       |

## LABELING REQUIREMENTS

The standard does not impose labeling requirements; however, it is possible to attach a label to the garment to correctly inform the consumer, indicating the flammability class of the fabric from which the garment was made.

The label, if provided, must contain the following information.

**WARNING Keep away from heat sources [in red]**  
**Class A, B, C fabric (as applicable)**  
**EN 14878**

## NETHERLANDS

### DAYWEAR (VWA CRITERIA).

#### Requirements:

- flame spread time: 127 mm in  $\geq 4$  sec
- test method: ASTM D1230 (sample oriented at 45°)
- flame application: 1 second.

The following fabrics are **exempt from the testing requirement** due to known fire behavior:

- plain surface fabrics with a weight  $\geq 88$  g/m<sup>2</sup>. It is recommended to carefully check the actual weight of the fabric
- fabrics, both plain surface and raised surface, made entirely or with a combination of the following fibers, regardless of weight: acrylic, modacrylic, nylon, olefin, polyester, wool.

Also **excluded from the flammability requirements**:

- swimwear
- hosiery
- underwear
- baby clothing (< size 80)
- interlinings.

## UNITED KINGDOM AND NORTHERN IRELAND

The two countries have very similar legislative instruments:

-**United Kingdom**: Nightwear Safety Regulation, 1985 (BS 5722)

-**Northern Ireland**: Flammability and Labelling Requirements of Fabrics and Assemblies used in Children's Nightwear (I.S. 148).

#### <sup>3</sup> Design characteristics:

- *upper part/jacket*: the bottom hem must not extend more than 10 cm beyond the crotch, and its circumference must not exceed the hip measurement provided for the size by more than 20%.
- *lower part/trousers*: leg circumference at the bottom hem must not exceed the knee circumference.
- *sleeves*: if the sleeves extend beyond the elbow, the circumference of the bottom hem must not exceed 40 cm, and at no point of the sleeve must the circumference exceed 50 cm.

**NB**: if any design element is judged to affect the flammability potential of the garment, it must be modified to reduce the risk.

These standards establish **labeling requirements** to inform the consumer about the degree of flammability (see below).  
In addition, the warnings shown on the label must also appear in **advertising or in the sales presentation** through traditional catalogs or on e-commerce sites (see below).  
The simplest solution in terms of labeling is to include the warning “**KEEP AWAY FROM FIRE**” on all garments.

| ITEM TYPE                                                                                       | NIGHTGOWNS AND DRESSING GOWNS                                                                                                                                                                                                                                                                         | PAJAMAS AND COTTON TERRY BATHROBES                                                         | ITEMS TREATED WITH FLAME RETARDANT                                  |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| COMPLIANCE REQUIREMENTS                                                                         | Must comply with the flammability requirements of BS 5722 / I.S. 148                                                                                                                                                                                                                                  | Compliance with BS 5722/I.S. 148 is not mandatory but they must still comply with EN 14878 |                                                                     |
| LABELING REQUIREMENTS<br>(for nightgowns and dressing gowns, 3 options are provided, A, B or C) | <b>OPTION A:</b><br>“LOW FLAMMABILITY TO BS 5722” (United Kingdom)<br>“LOW FLAMMABILITY TO I.S. 148” (Northern Ireland)<br><b>OPTION B</b><br>“KEEP AWAY FROM FIRE”<br><b>OPTION C:</b><br>both warnings                                                                                              | “KEEP AWAY FROM FIRE”                                                                      | “DO NOT WASH AT MORE THAN 50°C. CHECK SUITABILITY OF WASHING AGENT” |
| FONT TYPE                                                                                       | <b>OPTION A:</b> in black, capital letters, font size 10<br><b>OPTION B:</b> in red, capital letters, font size 10                                                                                                                                                                                    | in red<br>capital letters<br>font size 10                                                  | in black<br>capital letters<br>font size 6                          |
| LABEL POSITION                                                                                  | The warnings must be affixed to a clearly legible label, securely attached to the garment:<br>- inside, at the neck<br><i>or</i><br>- immediately adjacent to the label showing the garment size<br><i>or</i><br>- on the same label showing the garment size, immediately below the size indication. |                                                                                            |                                                                     |

In the case of advertising or sales presentation through catalogs, e-commerce, etc., the same information on the degree of flammability shown on the label must appear in the advertising.  
The **phrases** provided may be replaced by **symbols**, with the characteristics indicated in the following table (it is not permitted to use both phrases and symbols).  
If a symbol is used, its meaning must be explained, including through a reference to another page or section.

SPECIFIC WORDING FOR ADVERTISING PRESENTATION

| PHRASE                                                                                                        | SYMBOL                                                                              | DIMENSIONS AND CHARACTERISTICS                                                                           |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| KEEP AWAY FROM FIRE                                                                                           |  | <b>equilateral triangle, red sides:</b><br>≥10 mm in length.<br><b>letters in black:</b><br>font size ≥2 |
| LOW FLAMMABILITY TO BS 5722 (United Kingdom)<br><i>or</i><br>LOW FLAMMABILITY TO. I.S. 148 (Northern Ireland) |  | <b>green sides:</b><br>≥ 8 x 6 mm<br><b>letters in black:</b><br>≥ font size 4                           |

2.3.1.3 South Korea Flammability

the following symbol must be shown on the label if the manufacturer's risk assessment highlights a specific critical issue.

| SYMBOL TO BE SHOWN | DESCRIPTION IN KOREAN | TRANSLATION |
|--------------------|-----------------------|-------------|
|--------------------|-----------------------|-------------|

|                                                                                   |                          |                     |
|-----------------------------------------------------------------------------------|--------------------------|---------------------|
|  | 불꽃 접근시 불길이 옮겨 붙을 가능성이 있음 | Keep away from fire |
|-----------------------------------------------------------------------------------|--------------------------|---------------------|

### 2.3.1.4 China Flammability

Under standard GB 31701:2015 the requirements are **mandatory for**: all textile products for children aged 0-14 years.

**The test:** only the outer layer fabrics are tested

**Exclusions:** are excluded from the standard:

- bags
- backpacks
- umbrellas
- professional sports garments.

Also **exempt from the testing requirement due to known fire behavior**:

- fabrics with a weight exceeding 90 g/m<sup>2</sup>.
- fabrics made entirely or with a combination of the following fibers, regardless of weight: acrylic, modacrylic, nylon, polypropylene, polyester and wool.

**Requirements:** The method provides for flammability class 1 determined based on burn times.

**Test method:** GB/T 14644 Textiles Burning Behaviour.

### 2.3.1.5 Canada Flammability

#### Adults

Regulation SOR/2016-194 Textile Flammability Regulations, which provides for minimum flame spread times for textiles:

- the flame spread time in fabrics without raised fibers and yarns must be more than 3.5 seconds
- the flame spread time in fabrics with raised fibers and yarns must be more than 4 seconds.

The flame spread time is determined in accordance with standard CAN/CGSB-4.2 No.27.5 Textile Test Methods: Flame Resistance - 45° Angle Test - One-Second Flame Impingement.

## Children

Regulation SOR/2016-169 Children's Sleepwear Regulations provides for flammability requirements for children's home and nightwear. The standard distinguishes between two categories of clothing: loose-fitting sleepwear<sup>4</sup> and tight-fitting sleepwear<sup>5</sup>, for which separate restrictions are provided:

**A. REQUIREMENTS FOR TIGHT-FITTING SLEEPWEAR:**

The flame spread time must be more than 7 seconds. The flame spread time is determined in accordance with standard CAN/CGSB-4.2 No.27.5 Textile Test Methods: Flame Resistance - 45° Angle Test - One-Second Flame Impingement.

**B. REQUIREMENTS FOR LOOSE-FITTING SLEEPWEAR:**

Must have:

- a char length<sup>6</sup> for 5 samples not exceeding 178 mm
- no more than one sample with a char length<sup>7</sup> equal to the length of the garment.

The test method is described in Annex 1 of standard SOR/2016-169.

In addition, garments treated with flame retardant must be subject to toxicological tests to verify that they do not contain toxic elements capable of causing erythema or edema, genetic or chromosomal mutations, and tumors. For further details, see Annex 2 of standard SOR/2016-169.

Finally, the presence of flame retardants must be indicated with a permanent label affixed to the garment bearing the wording "flame retardant" and "ignifugeant", and appropriate care instructions must be provided to ensure that the garment does not lose its fire resistance following particular washing treatments.

**SOR/2016-194 Textile flammability regulations**, which provides for minimum flame spread times for textiles:

- the flame spread time in fabrics without raised fibers and yarns must be more than 3.5 seconds
- the flame spread time in fabrics with raised fibers and yarns must be more than 4 seconds.

The flame spread time is determined in accordance with standard CAN/CGSB-4.2 No.27.5 Textile Test Methods: Flame Resistance - 45° Angle Test - One-Second Flame Impingement.

### 2.3.1.6 Australia Flammability

The Consumer Goods (Children's Nightwear and Limited Daywear and Paper Patterns for Children's Nightwear) Safety Standard imposes flammability requirements for the following children's sleepwear products (sizes 00-14 under standard AS 1182):

- pajamas
- knitted night suits (size 3-14)
- knitted onesies (size 0-2) with pile fabrics
- non-knitted night suits (sizes 00-14)
- loose night boxers
- bathrobes
- dressing gowns
- baby sleeping bags, blankets or towels with arm openings.

#### Requirements

To ensure compliance with the Consumer Goods Safety Standard, it is necessary to apply the technical standard AS/NZS 1249:2014, which establishes flame spread time limits and related test methods and specific garment design requirements.

First of all, a distinction is made between four product categories, based on the fabric and its degree of flammability, with the aim of applying the correct risk warnings on a label:

- category 1: garments with low flammability risk. Section 1 of the standard establishes fire behavior requirements under standard ISO 6941:2003 and specific requirements on the stitching of trims/ornaments
- category 2: garments whose design has been developed to limit the risk of flammability. Section 2 of the standard establishes requirements for fire behavior, garment dimensions, trims/ornaments, fastenings and slits
- category 3: knitted onesies made of pile fabrics (size 00-2). Section 3 of the standard establishes fire behavior requirements
- category 4: garments that do not fall within the first three categories. Section 4 of the standard establishes fire behavior requirements and restrictions on the use of fabrics with a high percentage of cellulose, acetate or acrylic.

<sup>4</sup> Nightgowns, dressing gowns, bathrobes, house robes, pajamas and baby dolls for children up to size 14.

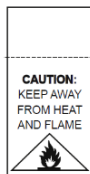
<sup>5</sup> Nightwear for children up to 7kg, nightwear intended to be used in hospital; polo pajamas, infant sleepers.

<sup>6</sup> Maximum length of damaged fabric, following the required tests.

<sup>7</sup> Maximum length of damaged fabric, following the required tests.

Under the technical standard, categories 1 to 3, which involve a lower flammability risk, must mandatorily show the following information on a permanent label:

- manufacturer's name or brand
- numeric size under standard AS 1182
- appropriate care instructions to preserve any treatments applied to the garment to reduce the flammability risk, if present
- the following warning:



The fire symbol must have a minimum size of 10mm x 20mm.

The label must be affixed to the neck in garments with a neck, or to the waistband in garments for the lower body.

Category 4, which involves a higher flammability risk, must show the same information on the label as the other categories, but the warning will be as follows:



## SECTION 3: SUBSTANCE LIST TABLES

| <b>TAB. 1 - ALKYLPHENOLS (AP)</b>                      | <b>CAS NUMBER</b>   | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4-(1,1,3,3-Tetramethylbutyl)-phenol; 4-(t-Octyl)phenol | 140-66-9            | <p>They are precursors of surfactant molecules found in many detergents and dispersing agents. In textile production they can be used or found in detergents made up of non-ionic surfactants with excellent solubilizing, emulsifying and dispersing properties.</p> <p>They are also found in abrasive agents, impregnating agents, emulsifying/dispersing agents for dyes and prints, finishing auxiliaries, spinning oils, softeners, dyes and pigment preparations, polyester wadding and down/feather fillings. They are also used in leather production as degreasing, emulsifying and dispersing agents. They may be found from raw material to finished product.</p> |
| 4-Nonylphenol (linear and branched)                    | 25154-52-3, various |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4-Nonylphenol, (branched)                              | 84852-15-3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4-Octylphenol (linear)                                 | 1806-26-4           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Nonylphenol (NP)                                       | 104-40-5, various   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Nonylphenol, branched                                  | 90481-04-2          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Octylphenol, branched                                  | 27193-28-8          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Octylphenol (OP)                                       | Various             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pentylphenol (PeP)                                     | Various             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Heptylphenol (HpP)                                     | Various             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| <b>Table 2 - ETHOXYLATED ALKYLPHENOLS (APEO)</b>       | <b>CAS NUMBER</b>        | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4-Nonylphenol, ethoxylated                             | 26027-38-3               | <p>They are precursors of surfactant molecules. In textile production they can be used or found in detergents made up of non-ionic surfactants with excellent solubilizing, emulsifying and dispersing properties.</p> <p>They are also found in abrasive agents, impregnating agents, emulsifying/dispersing agents for dyes and prints, finishing auxiliaries, spinning oils, softeners, dyes and pigment preparations, polyester wadding and down/feather fillings. They are also used in leather production as degreasing, emulsifying and dispersing agents.</p> |
| 4-Nonylphenol, ethoxylated, branched                   | 127087-87-0              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4-Nonylphenyl-polyethylene glycol                      | 9016-45-9                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Isononylphenol-ethoxylated                             | 37205-87-1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Nonylphenol Ethoxylates NPEO (1-18)                    | Various                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Octylphenol Ethoxylates OPEO (1-18)                    | Various                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Octylphenoethoxylate, branched                         | 68987-90-6 and 9036-19-5 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Polyoxyethylene nonylphenylether, branched (NPEs 3-18) | 68412-54-4               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Polyoxyethylene t-octylphenyl ether (OPEs 3-18)        | 9002-93-1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| <b>Table 3 - ASBESTOS</b> | <b>CAS NUMBER</b>       | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Actinolite                | 77536-66-4              | <p>Asbestos is a group of minerals from the silicate group belonging to the serpentine and amphibole mineralogical series. Asbestos is resistant to fire, chemical and biological agents, abrasion and wear; it has considerable mechanical strength and high flexibility thanks to its fibrous structure; it is sound-absorbing and heat-insulating. The fibers obtained by grinding the mineral can be spun to produce fire-resistant fabrics (such as those used to make firefighters' suits) or furnishing fabrics. Now banned, it can no longer be found in fabrics except in old recycled fabrics.</p> |
| Amosite                   | 12172-73-5              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Anthophyllite             | 77536-67-5              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Chrysotile                | 2001-29-5               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Crocidolite               | 12001-28-4; 132207-32-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tremolite                 | 77536-68-6              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| <b>Table 4A - PESTICIDES</b> | <b>CAS NUMBER</b> | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2,4,5-T                      | 93-76-5           | <p>BIOCIDES are substances or mixtures used to destroy, eliminate, prevent the action of, and render harmless, any harmful organism (such as bacteria, algae, insects, mites, animal or plant parasites, rodents).</p> <p>They can be used to preserve fibrous or polymerized materials such as leather, rubber, paper or textile products, by controlling microbiological deterioration.</p> <p>They can be used to be incorporated into textiles, fabrics, masks, paints and other articles or materials for the purpose of producing treated articles with disinfectant properties.</p> <p>Or also in additives for liquid or powder laundry detergents or in bleaches.</p> |
| 2,4-D                        | 94-75-7           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Aldrin                       | 309-00-2          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Azinophos-ethyl              | 2642-71-9         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Azinophos-methyl             | 86-50-0           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Bromophos-ethyl              | 4824-78-6         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Captafol                     | 2425-06-1         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Carbaryl                     | 63-25-2           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Table 4A - PESTICIDES                               | CAS NUMBER             | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chlordane                                           | 57-74-9                | <p>PESTICIDES are synthetic or natural substances used to treat plants/animals, aimed at protecting against diseases or pests (herbicides, pesticides, insecticides, acaricides, fungicides).</p> <p>Their possible presence on clothing, footwear, leather goods and accessories may be due to particular treatments of raw materials or their use in the cultivation of plant textile fibers, or veterinary drugs used in livestock farming.</p> <p>Wet treatments at temperatures above 80°C, carried out during processing, generally eliminate these residues.</p> |
| Chlorbenzilate                                      | 510-15-6               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Chlordecone (Kepone)                                | 143-50-0               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Chlordimeform                                       | 6164-98-3              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Chlorfenvinphos                                     | 470-90-6               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Chlorothalonil                                      | 1897-45-6              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Coumaphos                                           | 56-72-4                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cyfluthrin                                          | 68359-37-5             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cyhalothrin                                         | 91465-08-6             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cypermethrin                                        | 52315-07-8             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DDD                                                 | 53-19-0, 72-54-8       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DDE                                                 | 3424-82-6, 72-55-9     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DDT                                                 | 50-29-3, 789-02-6      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DEF (S,S,S-Tributyl phosphorotrithioate (Tribufos)) | 78-48-8                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Deltamethrin                                        | 52918-63-5             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Diazinon                                            | 333-41-5               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dichlofluanid                                       | 1085-98-9              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dichlorprop                                         | 120-36-5               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dicofol                                             | 115-32-2               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dicrotophos                                         | 141-66-2               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dieldrin                                            | 60-57-1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dimethoate                                          | 60-51-5                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dinoseb and salts                                   | 88-85-7                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DTTB                                                | 57648-21-2, 63405-99-2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Endosulfan                                          | 959-98-8               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Endosulfan (alpha, beta)                            | 33213-65-9, 115-29-7   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Endrin                                              | 72-20-8                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Esfenvalerate                                       | 66230-04-4             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Ethylene dibromide                                  | 106-93-4               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Fenvalerate                                         | 51630-58-1             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Heptachlor                                          | 76-44-8                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Heptachlor epoxide                                  | 1024-57-3              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hexabromobiphenyl                                   | 36355-01-8             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hexachlorobenzene                                   | 118-74-1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| alpha-Hexachlorocyclohexane                         | 319-84-6               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| beta-Hexachlorocyclohexane                          | 319-85-7               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| delta-Hexachlorocyclohexane                         | 319-86-8               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Lindane (g-HCH)                                     | 58-89-9                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Malathion                                           | 121-75-5               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| MCPA                                                | 94-74-6                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| MCPB                                                | 94-81-5                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mecoprop                                            | 93-65-2                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Methamidophos                                       | 10265-92-6             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Methoxychlor                                        | 72-43-5                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mirex                                               | 2385-85-5              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Monocrotophos                                       | 6923-22-4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Parathion                                           | 56-38-2                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Parathion-methyl                                    | 298-00-0               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Table 4A - PESTICIDES                                                           | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE) |
|---------------------------------------------------------------------------------|------------|-------------------------------------------------------------------|
| Pentachloroanisole                                                              | 1825-21-4  |                                                                   |
| Permethrin                                                                      | 52645-53-1 |                                                                   |
| Phosdrin/Mevinphos                                                              | 7786-34-7  |                                                                   |
| Perthane                                                                        | 72-56-0    |                                                                   |
| Profenophos                                                                     | 41198-08-7 |                                                                   |
| Propethamphos                                                                   | 31218-83-4 |                                                                   |
| Quinalphos                                                                      | 13593-03-8 |                                                                   |
| Toxaphen (Camphechlor)                                                          | 8001-35-2  |                                                                   |
| Tolylfluanide                                                                   | 731-27-1   |                                                                   |
| Trifluralin                                                                     | 1582-09-8  |                                                                   |
| Halogenated biphenyls with formula c12hnx10-n; X = halogen, n. 1,2 ...9)        |            |                                                                   |
| Halogenated terphenyls with the formula c18hnx14-n; X = halogen, n. 1,2.....13) |            |                                                                   |
| Halogenated naphthalenes with the formula c10hnx8-n; X = halogen, n.1,2...7)    |            |                                                                   |
| Kelevane                                                                        | 4234-79-1  |                                                                   |
| Isodrine                                                                        | 465-73-6   |                                                                   |
| Strobane                                                                        | 8001-50-1  |                                                                   |
| Telodrine                                                                       | 297-78-9   |                                                                   |
| Quintozene                                                                      | 82-68-8    |                                                                   |
| Triclosan                                                                       | 3380-34-5  |                                                                   |
| Table 4B - BIOCIDES                                                             |            |                                                                   |
| 2-Phenylphenol/ortho-phenylphenol (OPP)                                         | 90-43-7    |                                                                   |
| 2-Octyl-2H-isothiazol-3-one (OIT)                                               | 26530-20-1 |                                                                   |
| 2-(Thiocyanomethylthio)benzothiazole (TCMTB)                                    | 21564-17-0 |                                                                   |
| 4-Chloro-3-methylphenol (PCMC)                                                  | 59-50-7    |                                                                   |

| Table 5 - CHLOROBENZENES AND CHLOROTOLUENES | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Benzyl Chloride                             | 100-44-7   | <p>CHLOROBENZENES and CHLOROTOLUENES are used mainly as intermediates in the synthesis of other chemical substances or may be present as impurities in chemical formulations (such as dyes and biocides). They can be used as carriers in the dyeing process of synthetic fibers, in particular polyester, as swelling agents to diffuse disperse dyes into the fibers and allow their absorption at low temperature and ambient pressure.</p> <p>They can also be used for dyeing certain wool-polyester blends.</p> <p>Their use in Europe has now been replaced by processes carried out under pressure and with the aid of high temperatures.</p> <p>They can also be used as leveling agents for dyeing, printing and coating fabrics and leather, as degreasers, defoliant, fumigants, deodorants, solvents, disinfectants, insecticides, herbicides.</p> |
| Chlorotoluenes (isomers)                    | 25168-05   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2-chlorotoluene                             | 95-49-8    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3-chlorotoluene                             | 108-41-8   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4-chlorotoluene                             | 106-43-4   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Chlorobenzene                               | 108-90-7   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dichlorobenzenes (isomers)                  | 25321-22-6 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1,2-dichlorobenzene                         | 95-50-1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1,3-dichlorobenzene                         | 541-73-1   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1,4-dichlorobenzene                         | 106-46-7   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dichlorotoluenes (isomers)                  | 29797-40-8 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2,3-dichlorotoluene                         | 32768-54-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2,4-dichlorotoluene                         | 95-73-8    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2,5-dichlorotoluene                         | 19398-61-9 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2,6-dichlorotoluene                         | 118-69-4   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 3,4-dichlorotoluene                         | 95-75-0    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hexachlorobenzene                           | 118-74-1   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pentachlorobenzene                          | 608-93-5   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pentachlorotoluene                          | 877-11-2   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Table 5 - CHLOROBENZENES AND CHLOROTOLUENES | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE) |
|---------------------------------------------|------------|-------------------------------------------------------------------|
| Tetrachlorobenzenes (isomers):              |            |                                                                   |
| 1,2,3,4-tetrachlorobenzene                  | 634-66-2   |                                                                   |
| 1,2,3,5-tetrachlorobenzene                  | 634-90-2   |                                                                   |
| 1,2,4,5-tetrachlorobenzene                  | 95-94-3    |                                                                   |
| Tetrachlorotoluenes (isomers)               |            |                                                                   |
| a,a,a,2-tetrachlorotoluene                  | 2136-89-2  |                                                                   |
| a,a,2,6-tetrachlorotoluene                  | 81-19-6    |                                                                   |
| a,a,a,4-tetrachlorotoluene                  | 5216-25-1  |                                                                   |
| 2,3,4,5-tetrachlorotoluene                  | 76057-12-0 |                                                                   |
| 2,3,4,6-tetrachlorotoluene                  | 875-40-1   |                                                                   |
| 2,3,5,6-tetrachlorotoluene                  | 1006-31-1  |                                                                   |
| Trichlorobenzenes (isomers)                 | 12002-48-1 |                                                                   |
| 1,2,3-trichlorobenzene                      | 87-61-6    |                                                                   |
| 1,2,4-trichlorobenzene                      | 120-82-1   |                                                                   |
| 1,3,5-trichlorobenzene                      | 108-70-3   |                                                                   |
| Trichlorotoluenes (isomers)                 |            |                                                                   |
| 2,3,6-trichlorotoluene                      | 2077-46-5  |                                                                   |
| 2,4,5-trichlorotoluene                      | 6639-30-1  |                                                                   |
| a,a,a-trichlorotoluene                      | 98-07-7    |                                                                   |

| TAB. 6A – COLORANTI CANCEROGENI | C.I. No     | CAS NUMBER            | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                           |
|---------------------------------|-------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acid Orange 24                  | C.I. 20 170 | 1320-07-6             | CARCINOGENIC dyes or suspected carcinogens other than those that can release carcinogenic aromatic amines. Used mainly for dyeing polyester and acetate but also polyamide. |
| Acid Red 26                     | C.I. 16 150 | 3761-53-3             |                                                                                                                                                                             |
| Acid Red 114                    |             | 6459-94-5             |                                                                                                                                                                             |
| Acid Violet 49                  |             | 1694-09-3             |                                                                                                                                                                             |
| Basic Blue 26                   |             | 2580-56-5             |                                                                                                                                                                             |
| Basic Green 4 (chloride)        |             | 569-64-2              |                                                                                                                                                                             |
| Basic Green 4 (free)            |             | 10309-95-2            |                                                                                                                                                                             |
| Basic Green 4 (oxolate)         |             | 2437-29-8; 18015-76-4 |                                                                                                                                                                             |
| Basic Red 9                     | C.I. 42 500 | 569-61-9              |                                                                                                                                                                             |
| Basic Violet 1                  |             | 8004-87-3             |                                                                                                                                                                             |
| Basic Violet 3                  |             | 548-62-9              |                                                                                                                                                                             |
| Basic Violet 14                 | C.I. 42 510 | 632-99-5              |                                                                                                                                                                             |
| Basic Yellow 2                  |             | 24-6527-2             |                                                                                                                                                                             |
| Direct Black 28                 | C.I. 35 260 | 6745-67-1             |                                                                                                                                                                             |
| Direct Black 38                 | C.I. 30 235 | 1937-37-7             |                                                                                                                                                                             |
| Direct Black 91                 | C.I. 30 400 | 6739-62-4             |                                                                                                                                                                             |
| Direct Blue 6                   | C.I. 22 610 | 2602-46-2             |                                                                                                                                                                             |
| Direct Blue 15                  |             | 2429-74-5             |                                                                                                                                                                             |
| Direct Blue 76                  | C.I. 24 411 | 16143-79-6            |                                                                                                                                                                             |
| Direct Blue 218                 | C.I. 24 401 | 28407-37-6            |                                                                                                                                                                             |
| Direct brown 95                 | C.I. 30 145 | 16071-86-6            |                                                                                                                                                                             |
| Direct Red 28                   | C.I. 22 120 | 573-58-0              |                                                                                                                                                                             |
| Disperse Blue 1                 | C.I. 64 500 | 2475-45-8             |                                                                                                                                                                             |
| Disperse Orange 11              | C.I. 60 700 | 82-28-0               |                                                                                                                                                                             |
| Disperse Orange 149             |             | 85136-74-9            |                                                                                                                                                                             |
| Direct Yellow 1                 | C.I. 22 250 | 6472-91-9             |                                                                                                                                                                             |

| TAB. 6A – COLORANTI CANCEROGENI | C.I. No       | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE) |
|---------------------------------|---------------|------------|-------------------------------------------------------------------|
| Disperse Yellow 3               | C.I. 11 855   | 2832-40-8  |                                                                   |
| Disperse yellow 23              | C.I. 26 070   | 6250-23-3  |                                                                   |
| Pigment Yellow 34               | C.I. 77603    | 1344-37-2  |                                                                   |
| Pigment Red 104                 | C.I. 77 605   | 12656-85-8 |                                                                   |
| Solvent Blue 4                  | C.I. 44 045:1 | 6786-83-0  |                                                                   |
| Solvent Violet 8                |               | 561-41-1   |                                                                   |
| Solvent Yellow 1                | C.I. 11 000   | 60-09-3    |                                                                   |
| Solvent Yellow 2                |               | 60-11-7    |                                                                   |
| Solvent Yellow 3                |               | 97-56-3    |                                                                   |

| TAB. 6B- COLORANTI ALLERGENIC DISPERSE DYES | C.I. No      | CAS NUMBER                            | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|--------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disperse Blue 1                             | C.I. 64 500  | 2475-45-8                             | <p>ALLERGENIC DYES are predominantly disperse dyes, which are a class of substances that disperse into fibers without dissolving, since they lack polar groups that would allow them to solubilize in water.</p> <p>They are used to dye synthetic fibers such as polyester and polyamide.</p> <p>Some disperse dyes are also carcinogenic even though they do not contain azo groups capable of releasing carcinogenic aromatic amines (*).</p> |
| Disperse Blue 3                             | C.I. 61 505  | 2475-46-9                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Blue 7                             | C.I. 62 500  | 3179-90-6                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Blue 26                            | C.I. 63 305  | 3860-63-7                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Blue 35                            |              | 12222-75-2; 56524-77-7;<br>56524-76-6 |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Blue 102                           |              | 12222-97-8                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Blue 106                           |              | 12223-01-7                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Blue 124                           |              | 61951-51-7                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Brown 1                            |              | 23355-64-8                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Orange 1                           | C.I. 11 080  | 2581-69-3                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Orange 3                           | C.I. 11 005  | 730-40-5                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Orange 37/76/59                    | C.I. 11 132  | 13301-61-6; 12223-33-5;<br>51811-42-8 |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Orange 149 (*)                     |              | 85136-74-9                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Red 1                              | C.I. 11-110  | 2872-52-8                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Red 11                             | C.I. 62-015  | 2872-48-2                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Red 17                             | C.I. 11 210  | 3179-89-3                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Red 151                            |              | 61968-47-6                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Yellow 1                           | C.I. 11 855  | 119-15-3                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Yellow 3                           | C.I. 10 375  | 2832-40-8                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Yellow 7                           |              | 6300-37-4                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Yellow 9                           | C.I. 10 375  | 6373-73-5                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Yellow 39                          |              | 12236-29-2                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Yellow 49                          |              | 54824-37-2; 6858-49-7                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Yellow 56                          |              | 54077-16-6                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Disperse Yellow 23 (*)                      |              | 6250-23-3                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Solvent Yellow 14                           | C.I.C 12 055 | 842-07-09                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| TAB. 6C – COLORANTI AZOICI  | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-naphthylamine             | 91-59-8    | <p>Aromatic amines are aromatic hydrocarbons (with one or more benzene rings) to which at least one amino group (NH<sub>2</sub>), an imino group (NH) or a nitrogen atom has been added.</p> <p>Carcinogenic (or potentially carcinogenic) aromatic amines can be released by reductive cleavage from certain AZO DYES (azo group –N=N– between two aromatic rings) or may be detected as impurities.</p> |
| 2-Naphthylammoniumacetate   | 553-00-4   |                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2,4-diaminoanisole sulphate | 39156-41-7 |                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2,4-Xylidine                | 95-68-1    |                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2,6-Xylidine                | 87-62-7    |                                                                                                                                                                                                                                                                                                                                                                                                           |

| TAB. 6C – COLORANTI AZOICI                                                   | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE) |
|------------------------------------------------------------------------------|------------|-------------------------------------------------------------------|
| 2,4,5-trimethylaniline                                                       | 137-17-7   |                                                                   |
| 2,4,5-trimethylaniline hydrochloride                                         | 21436-97-5 |                                                                   |
| 3,3'-dichlorobenzidine; 3,3'-dichlorobiphenyl-4; 4'-ylenediamine             | 91-94-1    |                                                                   |
| 3,3'-dimethoxybenzidine; o-dianisidine                                       | 119-90-4   |                                                                   |
| 3,3'-dimethylbenzidine; 4,4'-bi-o-toluidine                                  | 119-93-7   |                                                                   |
| 4-amino azobenzene                                                           | 60-09-3    |                                                                   |
| 4-chloro-o-toluidine                                                         | 95-69-2    |                                                                   |
| 4-chloro-o-toluidinium chloride                                              | 3165-93-3  |                                                                   |
| 5-nitro-o-toluidine                                                          | 99-55-8    |                                                                   |
| 4-chloroaniline                                                              | 106-47-8   |                                                                   |
| 4-methoxy-m-phenylenediamine; 2,4-diaminoanisole                             | 615-05-4   |                                                                   |
| 4-methyl-m-phenylenediamine; 2,4-toluenediamine                              | 95-80-7    |                                                                   |
| 4-4'-methylenedianiline; 4-4'-diaminodiphenylmethane                         | 101-77-9   |                                                                   |
| 4,4'-methylenedi-o-toluidine                                                 | 838-88-0   |                                                                   |
| 4,4'-methylene-bis-(2-chloro-aniline); 2,2'-dichloro-4,4'-methylenedianiline | 101-14-4   |                                                                   |
| 4,4'-oxydianiline                                                            | 101-80-4   |                                                                   |
| 4-4'-thiodianiline                                                           | 139-65-1   |                                                                   |
| 6-methoxy-m-toluidine; p-cresidine                                           | 120-71-8   |                                                                   |
| benzidine                                                                    | 92-87-5    |                                                                   |
| biphenyl-4-ylamine; 4 aminobiphenyl; xenylamine                              | 92-67-1    |                                                                   |
| o-aminoazotoluene; 4-amino-2',3-dimethylazobenzene; 4-o-tolyazo-otoluidine   | 97-56-3    |                                                                   |
| o-anisidine; 2-methoxyaniline                                                | 90-04-0    |                                                                   |
| o-toluidine; 2-aminotoluene                                                  | 95-53-4    |                                                                   |
| aniline                                                                      | 62-53-3    |                                                                   |

| TAB. 6D- ALTRI COLORANTI VIETATI (Navy Blue) | CAS NUMBER    | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE) |
|----------------------------------------------|---------------|-------------------------------------------------------------------|
| Component 1: C39H23ClCrN7O12S 2Na            | 118685-33-9   |                                                                   |
| Component 2: C46H30CrN10O20S2 3Na            | Not allocated |                                                                   |
|                                              |               |                                                                   |

| TAB. 7A- FLUORINATED COMPOUNDS – PERFLUOROOCTANE SULFONIC ACID (PFOS) AND RELATED SUBSTANCES                                 | CAS NUMBER  | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-Decanaminiun, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptaecafluoro-1-octanesulfonic acid(1:1) | 251099-16-8 | <p>Polyfluorinated chemical compounds (PFC) are a family of chemical substances made up of carbon-fluorine bonds.</p> <p>They are used in finishing processes of many industrial processes and consumer products, as they impart water-repellent, oil-repellent and stain-resistant properties. PFOA can also be used in polymers such as polytetrafluoroethylene (PTFE).</p> <p>They are found as production or degradation residues of water- and oil-repellent resins applied to textile materials.</p> <p>They may be present in the environment as persistent pollutants and degradation products.</p> <p>To date, substitute products exist that allow for their replacement.</p> |
| Bis(2-hydroxyethyl)ammonium perfluorooctane sulfonate (PFOS-NH-(OH) <sub>2</sub> )                                           | 70225-14-8  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| N-Ethyl-Perfluorooctanesulfonamide (N-Et-FOSA)                                                                               | 4151-50-2   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| N-Ethyl_Perfluorooctanesulfonamidoethanol (N-Et-FOSE)                                                                        | 1691-99-2   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| N-Methyl-Perfluorooctanesulfonamide (N-Me-FOSA)                                                                              | 31506-32-8  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| N-Methyl_Perfluorooctanesulfonamidoethanol (N-Me-FOSE)                                                                       | 24448-09-7  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perfluorooctanesulfonamide (PFOSA)                                                                                           | 754-91-6    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perfluorooctanesulfonate (PFOS)                                                                                              | 1763-23-1   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| <b>TAB. 7A- FLUORINATED COMPOUNDS – PERFLUOROOCTANE SULFONIC ACID (PFOS) AND RELATED SUBSTANCES</b>  | <b>CAS NUMBER</b> | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b> |
|------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------|
| Perfluorooctane sulfonate ammonium salt (PFOS-NH <sub>4</sub> )                                      | 29081-56-9        |                                                                          |
| Perfluorooctane sulfonate K-salt (PFOS-K)                                                            | 2795-39-3         |                                                                          |
| Perfluorooctane sulfonate Li-salt (PFOS-Li)                                                          | 29457-72-5        |                                                                          |
| Perfluorooctanesulfonylfluoride (POSF)                                                               | 307-35-7          |                                                                          |
| Tetraethyl ammonium perfluorooctane sulfonate (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> ) | 56773-42-3        |                                                                          |

| <b>TAB. 7B – FLUORINATED COMPOUNDS – PERFLUOROOCTANOIC ACID (PFOA) AND ITS SALTS</b> | <b>CAS NUMBER</b> | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Perfluoro octanoic Acid (PFOA)                                                       | 335-67-1          | <p>Polyfluorinated chemical compounds (PFC) are a family of chemical substances made up of carbon-fluorine bonds.</p> <p>They are used in finishing processes of many industrial processes and consumer products, as they impart water-repellent, oil-repellent and stain-resistant properties. PFOA can also be used in polymers such as polytetrafluoroethylene (PTFE).</p> <p>They are found as production or degradation residues of water- and oil-repellent resins applied to textile materials.</p> <p>They may be present in the environment as persistent pollutants and degradation products.</p> <p>To date, substitute products exist that allow for their replacement.</p> |
| <b>PFOA SALTS</b>                                                                    |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Ammonium perfluorooctanoate (APFO)                                                   | 3825-26-1         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Ethanaminium, N,N,N-triethyl-, salt with Acido perfluorootanoico (1:1)               | 98241-25-9        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perfluorooctanoic acid, silver salt (Ag-PFOA)                                        | 335-93-3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perfluorooctanoyl fluoride (PFOA-F)                                                  | 335-66-0          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Potassium perfluorooctanoate (K-PFOA)                                                | 2395-00-8         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sodium perfluorooctanoate (Na-PFOA)                                                  | 335-95-5          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| <b>TAB. 7C - PFOA SOSTANZE CORRELATE</b>           | <b>CAS NUMBER</b> | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)         | 678-39-7          | <p>Polyfluorinated chemical compounds (PFC) are a family of chemical substances made up of carbon-fluorine bonds.</p> <p>They are used in finishing processes of many industrial processes and consumer products, as they impart water-repellent, oil-repellent and stain-resistant properties. PFOA can also be used in polymers such as polytetrafluoroethylene (PTFE).</p> <p>They are found as production or degradation residues of water- and oil-repellent resins applied to textile materials.</p> <p>They may be present in the environment as persistent pollutants and degradation products.</p> <p>To date, substitute products exist that allow for their replacement.</p> |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) | 39108-34-4        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)       | 27905-45-9        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1H,1H,2H,2H-Perfluorodecyl metacrylate (8:2 FTMA)  | 1996-88-9         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2H,2H--Perfluorodecanoic acid (H2PFDA)             | 27854-31-5        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Ethyl perfluorooctanoate (EtPFOA)                  | 3108-24-5         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Methyl perfluorooctanoate (MePFOA)                 | 376-27-2          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perfluorooctyl iodide (PFOI)                       | 507-63-1          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| <b>TAB. 7D – PERFLUOROHXANE-1-SULFONIC ACID (PFHxS) AND ITS SALTS</b> | <b>CAS NUMBER</b> | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PFHxS AND ITS SALTS</b>                                            |                   | <p>Polyfluorinated chemical compounds (PFC) are a family of chemical substances made up of carbon-fluorine bonds.</p> <p>They are used in finishing processes of many industrial processes and consumer products, as they impart water-repellent, oil-repellent and stain-resistant properties. PFOA can also be used in polymers such as polytetrafluoroethylene (PTFE).</p> <p>They are found as production or degradation residues of water- and oil-repellent resins applied to textile materials.</p> <p>They may be present in the environment as persistent pollutants and degradation products.</p> <p>To date, substitute products exist that allow for their replacement.</p> |
| Perfluorohexane sulfonic acid (PFHxS)                                 | 355-46-4          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perfluorohexane Sulfonic acid, potassium salt (PFHxS-K)               | 3871-99-6         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)                | 55120-77-9        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH <sub>4</sub> ) | 68259-08-5        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perfluorohexane Sulfonic acid, sodium salt (PFHxS-Na)                 | 82382-12-5        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>SUBSTANCES RELATED TO PFHxS</b>                                    |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)                    | 68259-15-4        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perfluorohexane sulfonamide (PFHxSA)                                  | 41997-13-1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| <b>TAB. 7E – C9-C14 PERFLUOROCARBOXYLIC ACIDS (PFCAS) AND THEIR SALTS</b> | <b>CAS NUMBER</b> | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Perfluorononanoic acid (PFHNA)                                            | 375-95-1          | Polyfluorinated chemical compounds (PFC) are a family of chemical substances made up of carbon-fluorine bonds.<br>They are used in finishing processes of many industrial processes and consumer products, as they impart water-repellent, oil-repellent and stain-resistant properties. PFOA can also be used in polymers such as polytetrafluoroethylene (PTFE).<br>They are found as production or degradation residues of water- and oil-repellent resins applied to textile materials.<br>They may be present in the environment as persistent pollutants and degradation products.<br>To date, substitute products exist that allow for their replacement. |
| Perfluorooctanoate ammonium salt (APFN)                                   | 4149-60-4         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluorononanoate Na-salt (PFNA-Na)                                      | 21049-39-8        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluorodecanoic acid (PFDA)                                             | 335-76-2          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluoroundecanoic acid (PFUnA)                                          | 2058-94-8         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluorododecanoic acid (PFDoA)                                          | 307-55-1          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluorotridecanoic acid (PFTrA)                                         | 72629-94-8        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluorotetradecanoic acid (PFTeA)                                       | 376-06-7          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA)                         | 172155-07-6       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| <b>TAB. 7F – SUBSTANCES RELATED TO C9 – C14 PFCA</b>  | <b>CAS NUMBER</b> | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1H,1H,2H,2H- Perfluorodecylacrylate (10:2 FTA)        | 17741-60-5        | Polyfluorinated chemical compounds (PFC) are a family of chemical substances made up of carbon-fluorine bonds.<br>They are used in finishing processes of many industrial processes and consumer products, as they impart water-repellent, oil-repellent and stain-resistant properties. PFOA can also be used in polymers such as polytetrafluoroethylene (PTFE).<br>They are found as production or degradation residues of water- and oil-repellent resins applied to textile materials.<br>They may be present in the environment as persistent pollutants and degradation products.<br>To date, substitute products exist that allow for their replacement. |
| 1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) | 2144-54-9         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H,Perfluorododecane-1-ol (10:2 FTOH)        | 865-86-1          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2H,2H,3H,3H,-Perfluoroundecanoic acid (4HPFUnA)       | 34598-33-9        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)            | 678-39-7          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)      | 39239-77-5        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H-Perfluorododecanesulfonic acid (10:2 FTS) | 120226-60-0       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)        | 2043-54-1         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)     | 30046-31-2        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| <b>TAB. 7G – PERFLUOROHEXANE-1- ACID (PFHxA) AND ITS SALTS</b> | <b>CAS NUMBER</b> | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PFHxA AND ITS SALTS</b>                                     |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluorohexanoic acid (PFHxA)                                 | 307-24-4          | Polyfluorinated chemical compounds (PFC) are a family of chemical substances made up of carbon-fluorine bonds.<br>They are used in finishing processes of many industrial processes and consumer products, as they impart water-repellent, oil-repellent and stain-resistant properties. PFOA can also be used in polymers such as polytetrafluoroethylene (PTFE).<br>They are found as production or degradation residues of water- and oil-repellent resins applied to textile materials.<br>They may be present in the environment as persistent pollutants and degradation products.<br>To date, substitute products exist that allow for their replacement. |
| <b>SUBSTANCES RELATED TO PFHxA</b>                             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H,Perfluorooctylacrylate (6:2 FTA)                   | 17527-29-6        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H-Perfluorooctyl metacrylate (6:2 FTMA)              | 2144-53-8         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)             | 27619-97-2        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H,Perfluoro-1-octanol (6:2 FTOH)                     | 647-42-7          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| <b>TAB. 7H – ALTRI PFAS</b>                                         | <b>CAS NUMBER</b>                 | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid (HFPO-DA) | 13252-13-6                        | Polyfluorinated chemical compounds (PFC) are a family of chemical substances made up of carbon-fluorine bonds.<br>They are used in finishing processes of many industrial processes and consumer products, as they impart water-repellent, oil-repellent and stain-resistant properties. PFOA can also be used in polymers such as polytetrafluoroethylene (PTFE).<br>They are found as production or degradation residues of water- and oil-repellent resins applied to textile materials.<br>They may be present in the environment as persistent pollutants and degradation products.<br>To date, substitute products exist that allow for their replacement. |
| Heptafluorobutyric acid (PFBA)                                      | 375-22-4                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H,Perfluorohexane-1-ol (4:2 FTOH)                         | 2043-47-2                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)                  | 757124-72-4                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 7H-Dodecafluoroheptanoic acid (7HPFHpA)                             | 1546-95-8                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluoropentanoic acid (PFPeA)                                     | 2706-90-3                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluorobutane sulfonic acid (PFBS)                                | 375-73-5; 59933-66-3; 749861-23-2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluorobutanesulfonate K-salt (PFHxS-K PFBS-K)                    | 29420-49-3                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mono[2-(perfluorooctyl)ethyl] Phosphate (8:2 monoPAP)               | 57678-03-2                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Perfluorodecane sulfonic acid (PFDS)                                | 335-77-3                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| TAB. 7H – ALTRI PFAS                                                                              | CAS NUMBER       | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE) |
|---------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------|
| Perfluorodecanesulfonate ammonium salt (PFDS-NH <sub>4</sub> )                                    | 67906-42-7       |                                                                   |
| Perfluorodecanesulfonate Na-salt (PFDS-Na)                                                        | 2806-15-7        |                                                                   |
| Perfluorodecanesulfonate K-salt (PFDS-K)                                                          | 2806-16-8        |                                                                   |
| Perfluoroheptane sulfonic acid (PFHpS)                                                            | 375-92-8         |                                                                   |
| Perfluoroheptanesulfonate Na-salt (PFHpS-Na)                                                      | 68555-66-8       |                                                                   |
| Perfluoroheptanoic acid (PFHpA)                                                                   | 375-85-9         |                                                                   |
| 8:2 diPAP                                                                                         | 678-41-1         |                                                                   |
| 8:2 monoPAP                                                                                       | 57678-03-2       |                                                                   |
| perfluorocarboxylic acids and salts (PFCA)                                                        |                  |                                                                   |
| Alcoli fluorotelomeri (FTOHs) F(CF <sub>2</sub> ) <sub>n</sub> CH <sub>2</sub> CH <sub>2</sub> OH |                  |                                                                   |
| Bis[2-(perfluorooctyl)ethyl] Phosphate (8:2 diPAP)                                                | 678-41-1         |                                                                   |
| C8-PFPA                                                                                           | 40143-78-0       |                                                                   |
| C8-PFSi                                                                                           | 3102-79-2 e vari |                                                                   |
| Mono[2-(perfluorooctyl)ethyl] Phosphate (8:2 monoPAP)                                             | 57678-03-2       |                                                                   |
| Fluorotelomer Olefins (FTOs)                                                                      |                  |                                                                   |
| Polyfluorinated iodide (8:2 FTI)                                                                  | 2043-53-0        |                                                                   |
| Polyfluorinated silanes (C8-PFSi)                                                                 | 3102-79-2 e Vari |                                                                   |

| TAB. 8 – COMPOSTI ORGANOSTANNICI | CAS NUMBER          | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bis(tributyltin)oxide (TBTO)     | 56-35-9             | <p>Organotin compounds are compounds containing at least one Tin-Carbon bond.</p> <p>They are used as fungicides in marine paints.</p> <p>In the clothing sector they can be used in plastic materials as thermal stabilizers in PVC production or catalysts in the production of polymeric materials (polyurethane, polyester or silicone polymers). They can also be found in inks, metallic glitter or in silicone-based finishing processes (for their elastomeric properties and water repellency).</p> <p>They can also be used as biocides, fungicides or preservatives in textiles and leather</p> |
| Dibutyltin (DBT)                 | 1002-53-5; Various  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dibutyltin dichloride (DBTC)     | 683-18-1            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dibutyltin hydrogen borate       | 75113-37-0          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dimethyltin (DMT)                | 23120-99-2; Vari    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Diocetyl tin (DOT)               | 15231-44-4; Vari    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Diphenyltin (DPHT)               | 1011-95-6; Vari     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dipropyltin (DPT)                | 2406-60-2; Vari     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Monobutyltin (MBT)               | Various             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Monomethyltin (MMT)              | 83221-98-1; Vari    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Monooctyltin (MOT)               | 15231-57-9; Vari    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Monophenyltin (MPHT)             | 2406-68-0; Vari     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tetrabutyltin (TeBT)             | 1461-25-2; Various  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tetraethyltin (TeET)             | 597-64-8; Various   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tributyltin (TBT)                | Various             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tricyclohexyltin (TCyHT)         | 6056-50-4; Various  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Trimethyltin (TMT)               | 17272-57-0; Various |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Triphenyltin (TPHT)              | 668-34-8; Various   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tripropyltin (TPT)               | 761-44-4; Various   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Trioctyltin (TOT)                | 250252-89-2 Vari    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tetraoctyltin (TeOT)             | 3590-84-9           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| TAB. 9 – FTALATI                                                       | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                   |
|------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,2-Benzenedicarboxylic acid                                           | 84777-06-0 | Phthalic acid esters (phthalates) are a class of compounds used in the plastics industry as plasticizers to increase the flexibility and deformability of materials |
| Dipentyl ester, branched and linear                                    |            |                                                                                                                                                                     |
| 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters | 68648-93-1 | They can be found in textile and footwear/leather goods processes during printing, coating, painting, lacquering, or also in plastics, adhesives and glues.         |

| TAB. 9 – FTALATI                                     | CAS NUMBER                                  | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE) |
|------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------|
| 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters  | 68515-51-5                                  |                                                                   |
| Benzylbutylphthalate (BBP)                           | 85-68-7                                     |                                                                   |
| Di-(2-ethylhexyl)-phthalate (DEHP)                   | 117-81-7                                    |                                                                   |
| Di-(2-methoxyethyl)-phthalate (DMEP)                 | 117-82-8                                    |                                                                   |
| Dibutylphthalate (DBP)                               | 84-74-2                                     |                                                                   |
| Di-C6-8-branched alkylphthalates, C7 rich (DIHP)     | 71888-89-6                                  |                                                                   |
| Di-C7-11-branched and linear alkylphthalates (DHNUP) | 68515-42-4                                  |                                                                   |
| Di-cyclohexylphthalate (DCHP)                        | 84-61-7                                     |                                                                   |
| Di-ethylphthalate (DEP)                              | 84-66-2                                     |                                                                   |
| Di-hexylphthalate, branched and linear (DHxP)        | 68515-50-4                                  |                                                                   |
| Di-iso-butylphthalate (DIBP)                         | 84-69-5                                     |                                                                   |
| Di-isodecylphthalate (DIDP)                          | 26761-40-0, 68515-49-1                      |                                                                   |
| Di-iso-hexylphthalate branched and linear (DIHxP)    | 71850-09-4, 68515-50-4, 84-75-3             |                                                                   |
| Di-iso-nonylphthalate (DINP)                         | 28553-12-0, 68515-48-0                      |                                                                   |
| Di-isooctylphthalate (DIOP)                          | 27554-26-3                                  |                                                                   |
| Di-isopentyl-phthalate (DiPP)                        | 605-50-5                                    |                                                                   |
| Di-methylphthalate (DMP)                             | 131-11-3                                    |                                                                   |
| Di-N-hexylphthalate (DNHP)                           | 84-75-3                                     |                                                                   |
| Di-nonylphthalate (DNP)                              | 84-76-4                                     |                                                                   |
| Di-n-octylphthalate (DNOP)                           | 117-84-0                                    |                                                                   |
| Di-n-pentylphthalate (DnPP)                          | 131-18-0                                    |                                                                   |
| Di-n-propylphthalate (DPrP)                          | 131-16-8                                    |                                                                   |
| Di-pentylphthalate (n-, iso-, or mixed) (DPP)        | 131-18-0, 605-50-5, 776297-69-9, 84777-06-0 |                                                                   |

| TAB. 10- POLYCYCLIC AROMATIC HYDROCARBONS (PAH) | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GROUP A</b>                                  |            | <p>These are hydrocarbons with a complex structure made up of two or more aromatic rings.</p> <p>They may be present as impurities or as degradation products in certain raw materials used in the production of chemical mixtures and dyes, or may originate from combustion processes.</p> <p>They are found in rubber, in plastic as softeners or extenders; in plasticizer oils, lacquers, carbon black pigment ash, in footwear soles and in screen printing pastes.</p> <p>Naphthalene is mainly used as a raw material for the manufacture of synthetic tanning agents (syntans) and for the manufacture of active substances in dispersing agents used during leather processing.</p> <p>Dispersing agents for textile dyes may contain naphthalene residues, as may the synthetic tanning agents (syntans) used in tanning processes.</p> |
| Benzo(a)anthracene (BaA)                        | 56-55-3    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Benzo(b)fluoranthene (BbFA)                     | 205-99-2   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Benzo(j)fluoranthene (BjFA)                     | 205-82-3   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Benzo(k)fluoranthene (BkFA)                     | 207-08-9   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Benzo(a)pyrene (BaP)                            | 50-32-8    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Benzo(e)pyrene (BeP)                            | 192-97-2   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Chrysene (CHR)                                  | 218-01-9   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Dibenzo(a,h)anthracene (DBAhA)                  | 53-70-3    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>GROUP B</b>                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1-Methylpyrene                                  | 2381-21-7  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Acenaphthene                                    | 83-32-9    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Acenaphthylene                                  | 208-96-8   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Anthracene                                      | 120-12-7   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Benzo(g,h,i)perylene                            | 191-24-2   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Cyclopenta(c,d)pyrene                           | 27208-37-3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Dibenzo(a,e)pyrene                              | 192-65-4   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Dibenzo(a,h)pyrene                              | 189-64-0   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Dibenzo(a,i)pyrene                              | 189-55-9   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Dibenzo(a,l)pyrene                              | 191-30-0   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Fluoranthene                                    | 206-44-0   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| TAB. 10- POLYCYCLIC AROMATIC HYDROCARBONS (PAH) | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE) |
|-------------------------------------------------|------------|-------------------------------------------------------------------|
| Fluorene                                        | 86-73-7    |                                                                   |
| Indeno(1,2,3-c, d) pyrene                       | 193-39-5   |                                                                   |
| Naphthalene                                     | 91-20-3    |                                                                   |
| Phenanthrene                                    | 85-01-8    |                                                                   |
| Pyrene                                          | 129-00-0   |                                                                   |

| TAB. 11- ISOCIANATI                                                               | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE) |
|-----------------------------------------------------------------------------------|------------|-------------------------------------------------------------------|
| 1,6-hexamethylene diisocyanate trimer                                             | 28182-81-2 |                                                                   |
| 1,6-hexamethylene diisocyanate biuret                                             | 4035-89-6  |                                                                   |
| 2,6-Diisopropylphenyl isocyanate                                                  | 28178-42-9 |                                                                   |
| 4,4'Methylenedicyclohexyl diisocyanate-metilendicicloesil-di-isocianato (4,4-MDI) | 5124-30-1  |                                                                   |
| Diphenylmethane 2,2'-diisocyanate (2,2-MDI)                                       | 2536-05-2  |                                                                   |
| Diphenylmethane 2,4'-diisocyanate (2,4-MDI)                                       | 5873-54-1  |                                                                   |
| Diphenylmethane 4,4'-diisocyanate (4,4'MDI)                                       | 101-68-8   |                                                                   |
| Hexamethylene diisocyanate (HMDI)                                                 | 822-06-0   |                                                                   |
| Isophorone diisocyanate                                                           | 4098-71-9  |                                                                   |
| MDI mixed isomers                                                                 | 26447-40-5 |                                                                   |
| Naphylene-1,5-diisocyanate                                                        | 3173-72-6  |                                                                   |
| Phenylisocyanate                                                                  | 103-71-9   |                                                                   |
| TetCopperthylxylene diisocyanate                                                  | 2778-42-9  |                                                                   |
| Toluene-2,4-diisocyanate                                                          | 584-84-9   |                                                                   |
| Toluene-2,6-diisocyanate                                                          | 91-08-7    |                                                                   |
| Toluene-2,4/2,6-diisocyanate mixture                                              | 26471-62-5 |                                                                   |

| TAB. 12- PHENYLMERCURY COMPOUNDS | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE) |
|----------------------------------|------------|-------------------------------------------------------------------|
| Phenylmercury 2-ethylhexanoate   | 13302-00-6 | Phenylmercury compounds can be found in paints and pesticides.    |
| Phenylmercury acetate            | 62-38-4    |                                                                   |
| Phenylmercury neodecanoate       | 26545-49-3 |                                                                   |
| Phenylmercury octanoate          | 13864-38-5 |                                                                   |
| Phenylmercury propionate         | 103-27-5   |                                                                   |

| TAB. 13 - PENTACHLOROPHENOL (PCP)<br>TETRACHLOROPHENOLS (TandCP)<br>TRICHLOROPHENOLS (TriCP)<br>DICHLOROPHENOLS (DCP)<br>MONOCHLOROPHENOLS (MCP) | CAS NUMBER | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Triclorophenol (TriCP), mixed isomers                                                                                                            | 25167-82-2 | Chlorophenols are polychlorinated compounds, i.e. a group of substances with chlorine atoms bonded to phenols.<br>Pentachlorophenols (PCP) and tetrachlorophenols are used as preservatives and pesticides to prevent the formation of mold during the storage and transport of leather, fabrics, or as insecticides in cotton cultivation, or also as impregnating agents in textile processes.<br>They can also be found as impurities in dyes and preservatives in printing pastes. |
| 2,3,4-triclorophenol                                                                                                                             | 15950-66-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2,3,5-triclorophenol                                                                                                                             | 933-78-8   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2,3,6-triclorophenol                                                                                                                             | 933-75-5   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2,4,5-triclorophenol                                                                                                                             | 95-95-4    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2,4,6-triclorophenol                                                                                                                             | 88-06-2    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3,4,5-triclorophenol                                                                                                                             | 609-19-8   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Tetraclorophenol (TeCP), mixed isomers                                                                                                           | 25167-83-3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                                    |            |  |
|------------------------------------|------------|--|
| 2,3,4,5-tetrachlorophenol          | 4901-51-3  |  |
| 2,3,4,6-tetrachlorophenol          | 58-90-2    |  |
| 2,3,5,6-tetrachlorophenol          | 935-95-5   |  |
| Pentachlorophenol(PCP)             | 87-86-5    |  |
| Diclorophenol (DCP), mixed isomers | 25167-81-1 |  |
| 2,3-Diclorophenol                  | 576-24-9   |  |
| 2,4-Diclorophenol                  | 120-83-2   |  |
| 2,5-Diclorophenol                  | 583-78-8   |  |
| 2,6-Diclorophenol                  | 87-65-0    |  |
| 3,4-Diclorophenol                  | 95-77-2    |  |
| 3,5-Diclorophenol                  | 591-35-5   |  |
| Monoclorophenol, mixed isomers     | 25167-80-0 |  |
| 2-Clorophenol                      | 95-57-8    |  |
| 3-Clorophenol                      | 108-43-0   |  |
| 4-Clorophenol                      | 106-48-9   |  |
| Triclosan                          | 3380-34-5  |  |

| TAB. 14 – RITARDANTI DI FIAMMA                       | CAS NUMBER                            | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Decabromodiphenyl ethane (DBDPE)                     | 84852-53-9                            | <p>FLAME RETARDANTS are brominated, chlorinated or organophosphate compounds (esters of phosphoric acid), which are very stable and are able to reduce the spread of flame. They are therefore added to a great many products to make them less flammable.</p> <p>To date, their use in production processes is prohibited except in rare cases.</p> <p>They were used in the production of clothing and shoes, as lubricant additives, in metalworking fluids, plasticizers for rubbers, paints and adhesives.</p> |
| 2-Ethylhexyl-2,3,4,5-tetrabromobenzoate (TBB)        | 183658-27-7                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)          | 3296-90-0                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Bis(2-ethylhexyl)-2,3,4,5-tetrabromophthalate (TBPH) | 26040-51-7                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Bis (2,3- dibromopropyl) phosphate (BIS-BP)          | 5412-25-9                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Boric Acid (HB)                                      | 11113-50-1; 10043-35-3                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Diboron trioxide (BTO)                               | 1303-86-2                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Disodium Tetraborate (DBT)                           | 12179-34-3; 1303-96-4; 1330-43-4      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Octabromodiphenyl ether (OctaBDE)                    | 32536-52-0; 337513-72-1               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Heptabromodiphenylether (HeptaBDE)                   | 446255-22-7; 0207122-16-5; 68928-80-3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hexabromodiphenylether (HexaBDE)                     | 36483-60-0; 68631-49-2; 207122-15-4   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Nonabromodiphenylethers (NonaBDE)                    | Various                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tetrabromodiphenyl ether (TetraBDE)                  | 40088-47-9; 5436-43-1                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Decabromobiphenyl (DecaBB)                           | 13654-09-6                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Decachlorobiphenyl (PCB)                             | 2051-24-3                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Dibromobiphenyls (DiBB)                              | 57422-77-2; Vari                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Heptabromobiphenyls (HeptaBB)                        | 88700-06-5, Vari                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hexabromobiphenyl (HexaBB)                           | 60044-26-0, Vari                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Monobromobiphenyl (MonoBB)                           | 2052-07-5                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Nonabromobiphenyls (NonaBB)                          | 69278-62-2, Vari                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Octabromobiphenyls (OctaBB)                          | 67889-00-3, Vari                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Pentabromobiphenyls (PentaBB)                        | 59080-39-6, Vari                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Polybrominated Biphenyls (hexa-) (PBBs)              | 59536-65-1, Vari                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tetrabromobiphenyls (TetraBB)                        | 60044-24-8                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tribromobiphenyls (TriBB)                            | 59080-34-1; Vari                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tris-(aziridinyl)-phosphineoxide (TEPA)              | 5455-55-1                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tris(2,3- dibromopropyl)phosphate (TRIS)             | 126-72-7                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Decabromodiphenyl ether (DecaBDE)                    | 1163-19-5                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tris (2- chloroethyl)phosphate (TCEP)                | 115-96-8                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tris-(2-chloro-1-methylethyl)phosphate (TCPP)        | 13674-84-5                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|                                                           |                       |  |
|-----------------------------------------------------------|-----------------------|--|
| Hexabromocyclododecane (HBCDD)                            | 3194-55-6; 25637-99-4 |  |
| Tetraboron disodium heptaoxide, hydrate (TBHO)            | 12267-73-1            |  |
| Tetrabromobisphenol A (TBBPA)                             | 79-94-7               |  |
| Tetrabromobisphenol A bis(2,3-dibromopropyl ether) (BDDP) | 21850-44-2            |  |
| Tris (1,3- dichloro-2-propyl)phosphate (TDCPP)            | 13674-87-8            |  |
| Tri-o-cresyl phosphate (o-TCP)                            | 78-30-8               |  |
| Pentabromodiphenyl ether (PentaBDE)                       | 32534-81-9            |  |
| Trixylyl phosphate (TXP)                                  | 25155-23-1            |  |

| TAB. 15 - SOLVENTI            | CAS NUMBER | GROUP | DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHLORINATED SOLVENTS          |            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| alpha-chlorotoluene           | 100-44-7   | A     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1,1 dichloroethylene          | 75-35-4    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1,1,1 trichloroethane         | 71-55-6    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1,2,3-trichloropropane        | 96-18-4    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1,1,1,2 tetrachloroethane     | 630-20-6   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1,1,2,2 tetrachloroethane     | 79-34-5    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Carbon tetrachloride          | 56-23-5    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Hexachloroethane              | 67-72-1    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Pentachloroethane             | 76-01-7    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Tetrachloroethylene           | 127-18-4   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Trichloromethane (Chloroform) | 67-66-3    | B     | <b>CHLORINATED SOLVENTS</b><br>These are halogenated aliphatic solvents with excellent properties for dissolving other substances, and are also used as chemical intermediates (for example in pesticides and dyes), or as washing solvents and carriers in textile finishing, swelling agents in polyurethane foams, industrial detergents, in thermoplastic adhesives for printing, as finishing and cleaning agents, and in dyeing.                                                            |
| 1,2 dichloroethane            | 107-06-2   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1,1,2 trichloroethane         | 79-00-5    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Methylene Chloride            | 75-09-2    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Trichloroethylene             | 79-01-6    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| VOC                           |            |       | <b>OTHER SOLVENTS</b><br>Organic solvents can be found in adhesives, paints, sprays, printing processes. Benzene and toluene are solvents commonly found in glues, while dimethylformamide is commonly found in polyurethanes. Dimethylformamide (DMF) is also used, as an organic solvent, in the production of plastics, adhesives and coated materials. Due to their nature and uses, they may be contained in traces in many of the chemical substances obtained through synthetic processes. |
| Benzene                       | 71-43-2    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Methyl alcohol                | 67-56-1    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| N-hexane                      | 110-54-3   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Toluene                       | 108-88-3   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Carbon Disulfide              | 75-15-0    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1,2-Dichlorobenzene           | 95-50-1    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1,4-Dichlorobenzene           | 106-46-7   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1,2,Dichloropropane           | 78-87-5    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2-Ethoxyethyl acetate         | 111-15-9   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cyclohexanone                 | 108-94-1   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2-phenyl-2-propanol           | 617-94-7   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2-Ethylhexane acid            | 149-57-5   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Acetophenone                  | 98-86-2    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Aniline                       | 62-53-3    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Bis(2-methoxyethyl)ether      | 111-96-6   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Ethylbenzene                  | 100-41-4   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Isophorone                    | 78-59-1    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Naphthalene                   | 91-20-3    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Phenol                        | 108-95-2   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                                  |                                        |  |  |
|--------------------------------------------------|----------------------------------------|--|--|
| THF                                              | 109-99-9                               |  |  |
| Styrene                                          | 100-42-5                               |  |  |
| 1-bromopropane                                   | 106-94-5                               |  |  |
| 1-PG2MEA 1-Propanol, 2-methoxy-, acetate)        | 70657-70-4                             |  |  |
| 2-(2-Methoxyethoxy)ethanol                       | 111-77-3                               |  |  |
| 2-ethoxyethanol                                  | 110-80-5                               |  |  |
| 2-Methoxypropan-1-ol                             | 1589-47-5                              |  |  |
| EGDME (Ethylene glycol dimethyl ether)           | 110-71-4                               |  |  |
| EGMEA (Ethylene glycol monomethyl ether acetate) | 110-49-6                               |  |  |
| TEGDME (Triethylene glycol dimethyl ether)       | 112-49-2                               |  |  |
| <b>OTHER SOLVENTS</b>                            |                                        |  |  |
| 2-methoxyethanol                                 | 109-86-4                               |  |  |
| Dimethylformamide (DMFa)                         | 68-12-2                                |  |  |
| Formamide                                        | 75-12-7                                |  |  |
| N,N-dimethylacetamide (DMAc)                     | 127-19-5                               |  |  |
| n-methyl-2-pyrrolidone (NMP)                     | 872-50-4                               |  |  |
| N-methylacetamide                                | 79-16-3                                |  |  |
| Nitrobenzene                                     | 98-95-3                                |  |  |
| Xylenes (meta-, ortho-, para-)                   | 1330-20-7; 95-47-6; 108-38-3; 106-42-3 |  |  |

| <b>TAB. 16 - NITROSAMMINE</b>     | <b>CAS NUMBER</b> | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N-nitrosodibutylamine (NDBA)      | 924-16-3          | <p>Organic compounds containing nitrogen to which a nitroso group bonded to the amino nitrogen is attached.</p> <p>NITROSAMINES are mainly used to impart various properties to natural and synthetic rubber. They are used as constituents of accelerators, antioxidants and reinforcing agents, to give strength and elasticity to the final product</p> <p>They can also be generated, from their precursors, as by-products of rubber production and storage processes (for example in rubber used for footwear soles)</p> |
| N-nitrosodiethylamine (NDEA)      | 55-18-5           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N-nitrosodimethylamine (NDMA)     | 62-75-9           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N-nitrosodipropylamine (NDPA)     | 621-64-7          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N-Nitrosoethylphenylamine (NEPhA) | 612-64-6          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N-nitroso-N-methylaniline (NMPhA) | 614-00-6          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N-nitrosomorpholine (NMOR)        | 59-89-2           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N-nitrosopiperidine (NPIP)        | 100-75-4          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N-nitrosopyrrolidine (NPYR)       | 930-55-2          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N-nitroso-N-ethylaniline (NEPhA)  | 612-64-6          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| <b>TAB. 17 - BISFENOLI</b> | <b>CAS NUMBER</b> | <b>DESCRIPTION AND FIELDS OF USE (BY WAY OF EXAMPLE, NOT EXHAUSTIVE)</b> |
|----------------------------|-------------------|--------------------------------------------------------------------------|
|----------------------------|-------------------|--------------------------------------------------------------------------|

|                                                                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4,4'-isopropylidenediphenol (Bisphenol A - BPA)                                     | 80-05-7    | <p>BISPHENOLS are organic molecules made up of two phenolic groups bonded together. They are used to produce polymers and resins, which are in turn used in the production of plastics. They belong to a broad category, to which many substances with similar chemical structures and uses belong. They are mainly found in materials containing polycarbonate and/or epoxy resins, as well as in thermal paper, inks and tanning agents for the leather sector.</p> |
| 4,4'-(1-methylpropylidene)bisphenol (Bisphenol B - BPB)                             | 77-40-7    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4,4'-sulphonyldiphenol (Bisphenol S - BPS)                                          | 77-40-7    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4,4'-methylenediphenol (Bisphenol F - BPF)                                          | 620-92-8   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4,4'-[2,2,2-trifluoro-1- (trifluoromethyl)ethylidene]diphenol (Bisphenol AF - BPAF) | 1478-61- 1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

Place and date

Supplier's stamp and signature

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