



# RESTRICTED SUBSTANCES LIST (RSL) TWENTIETH EDITION

February 2019

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<sup>1</sup> Appendix I lists regulations which have a reporting requirement that are not necessarily otherwise listed in the RSL.

<sup>2</sup> Appendix II lists regulations which have a labeling requirement that are not necessarily otherwise listed in the RSL.

## Introduction

The Restricted Substance List (RSL) was created by a special working group of the American Apparel & Footwear Association's (AAFA) Environmental Task Force. The RSL is intended to provide apparel and footwear companies with information related to regulations and laws that restrict or ban certain chemicals and substances in finished home textile, apparel, and footwear products around the world.

The RSL was developed to serve as a practical tool to help those individuals in textile, apparel, and footwear companies, and their suppliers, responsible for environmental compliance throughout the supply chain, to become more aware of various national and international regulations governing the amount of substances that are permitted in finished home textile, apparel, and footwear products.

The RSL will be updated on a regular basis and will be supplemented with additional resources to help officials in these companies undertake responsible chemical management practices in the aforementioned finished products.

## Methodology

The RSL includes only those materials, chemicals, and substances that are restricted or banned in finished home textile, apparel, and footwear products because of a regulation or law. In each case, the RSL identifies the most restrictive regulation.

The RSL does not include regulations that restrict the use of substances in production processes or in the factory; rather the focus is on whether or not the substance can be found in finished home textile, apparel, and footwear products at a certain level.

### A. Structure

For each substance, the RSL identifies the following features:

1. CAS number
2. Common chemical or color name
3. Information on the Restriction/Limit on Final Product or Tested Component
  - a. Restriction Level
  - b. Country where that Restriction/Limit is found
  - c. Test Method (where no test method is stipulated in the regulation, the GAFTI column may suggest one)
  - d. Other countries that maintain equal or less restrictions
  - e. Comments (if applicable)

### B. What is Included and What is Not

The RSL is not intended to address product safety regulations outside the chemical management area – such as Consumer Product Safety Commission (CPSC) regulations related to small parts. Moreover, it is not structured to cover toys, automotive textiles, or other industrial textiles. This list does not include restrictions related to use of substances in packaging or related materials.

The following legislation is not listed because there are no regulatory concentration limits but may warrant evaluation for applicability.

1. The U.S. Environmental Protection Agency (EPA), following the Montreal Protocols, promulgated legislation on ozone depleting compounds. Class I and Class II listed chemicals used in the process of manufacturing of product or packaging requires special labeling as detailed in the regulation. Residuals of the chemical components in the product or package are not necessary to trigger the requirement. Minor usage in textiles as a spot cleaner is acceptable.
2. California Proposition 65 requires a “clear and reasonable” warning label for all products sold in the state of California containing one or more chemicals known to the state to cause cancer or reproductive toxicity. Labeling requirements are dependent on consumer exposure to the chemical (measured in micrograms (µg)/day) not the concentration in the product. To comply with the law, manufacturers must either ensure that consumer exposure to regulated chemicals in their products do not exceed the established safe harbor levels or label their products. For more information on California Proposition 65, please visit our website at [https://www.aafaglobal.org/AAFA/Solutions/Pages/RSL\\_Covering\\_California\\_Proposition\\_65](https://www.aafaglobal.org/AAFA/Solutions/Pages/RSL_Covering_California_Proposition_65).

## C. Technical Notes

1. Chemical nomenclature can take several forms. Technical chemical names may take numerous forms. It is the responsibility of the user to verify synonyms of any regulated chemicals referenced.
2. It is possible that regulated components may be present in raw materials below the levels that require reporting on Material Safety Data Sheets (MSDS). Care should be taken to verify the presence of all regulated ingredients regardless of the concentration.
3. This list represents the known and applicable standards at the time of publication; any inaccuracy or omission is not the responsibility of AAFA.
4. Test methods noted in blue are the Global Apparel, Footwear and Textile Initiative (GAFTI) recommended test methods.

## D. GAFTI Comments

1. The members of the Global Apparel, Footwear and Textile Initiative (GAFTI) have collaboratively produced recommended test methods for certain chemicals in cases where the test method is not stipulated by the regulation. This is an ongoing process, and test methods will continue to be added in subsequent releases of the RSL.

### About GAFTI

Global Apparel, Footwear and Textile Initiative is an initiative to bring retailers, brands, mills, and factories together to improve efficiencies and set standards globally.

Because there is no single source of standards, there is a lack of standardization in the apparel, textile, and footwear industry. This gap creates conflicting requirements across customers.

GAFTI's goal is to reduce complexity and remove costs from common industry practices and prevent increased scrutiny from press and governments, which could lead to increased regulation.

For more information see: [www.GAFTI.org](http://www.GAFTI.org)

## About AAFA

The American Apparel & Footwear Association (AAFA) is the national trade association representing apparel, footwear and other sewn products companies, and their suppliers, which compete in the global market. Representing more than 1,000 world famous name brands, we are the trusted public policy and political voice of the apparel and footwear industry, its management and shareholders, its nearly four million U.S. workers, and its contribution of more than \$400 billion in annual U.S. retail sales.

AAFA stands at the forefront as a leader of positive change for the apparel and footwear industry. With integrity and purpose, AAFA delivers a unified voice on key legislative and regulatory issues. AAFA enables a collaborative forum to promote best practices and innovation. AAFA's comprehensive work ensures the continued success and growth of the apparel and footwear industry, its suppliers, and its customers.

## Acknowledgements

The AAFA gratefully acknowledges the support and contribution of the past and present members of the RSL Task Force in developing the RSL. The current members of the RSL Task Force are listed below.

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| Arylamines |                                           |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
|------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CAS Number | Chemical Name/Color Index Name            | Restriction /Maximum Limit on Final Product or Tested Component                                                                                                                                                                                                                              | Country                | Regulation                                                                                                                                                                                                                                                                                                                                                                                      | Test Method                                                                                                                                                                                                                                                                                                                                                          | Other Countries, U.S. States that also Regulate this Substance                                                                                                                                                                                                                                                                                                                                                                                                   | Comment                                                                                                                                                                                                                   | GAFTI Comments |
| 91-22-5    | Quinoline                                 | 50mg/kg                                                                                                                                                                                                                                                                                      | EU                     | Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 60-09-3    | 4-Amino azobenzene                        | <p>Reported as not detected.</p> <p><b>China restriction limit:</b><br/>Textiles 20ppm<br/>Leather 30ppm</p> <p><b>EU restriction limit:</b><br/>Textiles and Leather: 30ppm</p> <p><b>Vietnam restriction limit:</b><br/>restricts AZO dyes and Formaldehyde<br/>Azo dyes limit: 30 ppm</p> | Vietnam, EU, and China | <p>Regulations below apply to all Arylamines listed in this RSL</p> <p>European Union REACH Regulation (EC) No. 1907/2006 Annex XVII</p> <p>The National Standard of the People's Republic of China GB18401-2010</p> <p>The National Standard of the People's Republic of China GB20400-2006-Leather and Fur</p> <p>Vietnam<br/>Circular no.21/2017/TT-BCT<br/>Going into force May 1, 2018</p> | <p>Textiles (EU): ISO 14362-1 :2017<br/>Leather (EU): EN ISO 17234-1:2015</p> <p>Test methods specific for 4-Aminoazobenzene confirmation: LFGB 82.02-9 LFGB 82.02-15<br/>EN ISO 17234-2:2011<br/>AAB ISO 14362 - 3:2017<br/>«GB/T 23344-2009 (pAAB) confirmation</p> <p>Textiles (China)<br/>GB/T 17592-2011</p> <p>Leather and fur (China)<br/>GB/T 19942-2005</p> | <p>South Korea (KC Mark, for more information review Appendix II), and Indonesia</p> <p>Switzerland, Norway, and Taiwan, Turkey<br/>"Indonesia: No.72/M-IND/PER/7/2012<br/>SNI7617:2013</p> <p>Egypt:<br/>ES 7266-4/2011<br/>ES 7322/2011"</p> <p>Taiwan:<br/>CNS 15290<br/>CNS 15503 (children products)<br/>CNS 8634 (leather casual shoes)<br/>CNS 10632 (leather shoes)"</p> <p>Japan:<br/>Textile:<br/>JIS L 1940<br/>Leather: ISO 17234-1:2010/-2:2011</p> | <p>4- Amino azobenzene is not listed in GB20400-2006;</p> <p>Only 23 arylamines are subject to this standard</p> <p>GB 30585-2014 (Safety technical specification for children's footwear) - will apply on 1 Jan 2016</p> |                |
| 97-56-3    | <i>o</i> -Aminoazotoluene                 |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 92-67-1    | 4-Aminodiphenyl                           |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 99-55-8    | 2-Amino-4-nitrotoluene                    |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 90-04-0    | <i>o</i> -Anisidine                       |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 92-87-5    | Benzidine                                 |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 106-47-8   | <i>p</i> -Chloroaniline                   |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 95-69-2    | 4-Chloro- <i>o</i> -toluidine             |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 120-71-8   | <i>p</i> -Cresidine                       |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 615-05-4   | 2,4-Diaminoanisole                        |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 101-77-9   | 4,4'-Diaminodiphenylmethane               |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 91-94-1    | 3,3'-Dichlorobenzidine                    |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 119-90-4   | 3,3'-Dimethoxybenzidine                   |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 119-93-7   | 3,3'-Dimethylbenzidine                    |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 838-88-0   | 3,3'-Dimethyl-4,4'-diaminodiphenylmethane |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 101-14-4   | 4,4'-Methylene-bis-(2-chloroaniline)      |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 91-59-8    | 2-Naphthylamine                           |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 101-80-4   | 4,4'-Oxydianiline                         |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 139-65-1   | 4,4'-Thiodianiline                        |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 95-80-7    | 2,4-Toluenediamine                        |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 95-53-4    | <i>o</i> -Toluidine                       |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 137-17-7   | 2,4,5-Trimethylaniline                    |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 95-68-1    | 2,4-Xylidine (China, Japan only)          |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |
| 87-62-7    | 2,6-Xylidine (China, Japan only)          |                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                           |                |

| Asbestos   |                                |                                                                 |                |                                                               |                                                                                                                                                                                                |                                                                |          |                |
|------------|--------------------------------|-----------------------------------------------------------------|----------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------|----------------|
| CAS Number | Chemical Name/Color Index Name | Restriction /Maximum Limit on Final Product or Tested Component | Country        | Regulation                                                    | Test Method                                                                                                                                                                                    | Other Countries, U.S. States that also Regulate this Substance | Comments | GAFTI Comments |
| 77536-66-4 | Actinolite                     | Not detected                                                    | European Union | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII | Microscopic examination; minimum magnification1-250, attached; ratio of fiber length to diameter is at polarized light filter least 3:1- (industry practice - not specified by the regulation) | Switzerland and Norway, and the U.S                            |          |                |
| 12172-73-5 | Amosite                        |                                                                 |                |                                                               |                                                                                                                                                                                                |                                                                |          |                |
| 77536-67-5 | Anthrophyllite                 |                                                                 |                |                                                               |                                                                                                                                                                                                |                                                                |          |                |
| 12001-29-5 | Chrysotile                     |                                                                 |                |                                                               |                                                                                                                                                                                                |                                                                |          |                |
| 12001-28-4 | Crocidolite                    |                                                                 |                |                                                               |                                                                                                                                                                                                |                                                                |          |                |
| 77536-68-6 | Tremolite                      |                                                                 |                |                                                               |                                                                                                                                                                                                |                                                                |          |                |

| Dioxins & Furans |                                            |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
|------------------|--------------------------------------------|-----------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|----------|----------------|
| CAS Number       | Chemical Name/Color Index Name             | Restriction /Maximum Limit on Final Product or Tested Component | Country | Regulation                                                                                   | Test Method                                                     | Other Countries, U.S. States that also Regulate this Substance | Comments | GAFTI Comments |
| Group 1)         |                                            |                                                                 | Germany | GERMANY: Dioxins & Furans can be found in § 3 Abs 2, Anlage 1 Eintrag 2 ChemikalienverbotsVO | US EPA 8290 (industry practice-not specified by the regulation) |                                                                |          |                |
| 1746-01-6        | 2,3,7,8- Tetrachlorodibenzo-p-dioxin       | Sum of Group 1: 1 µg/kg                                         |         |                                                                                              |                                                                 |                                                                |          |                |
| 40321-76-4       | 1,2,3,7,8- Pentachlorodibenzo-p-dioxin     |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 51207-31-9       | 2,3,7,8-Tetrachlorodibenzofuran            |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 57117-31-4       | 2,3,4,7,8-Pentachlorodibenzofuran          |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| Group 2)         |                                            |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 39227-28-6       | 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin     | Sum of Group 1 & 2: 5 µg/kg                                     |         |                                                                                              |                                                                 |                                                                |          |                |
| 19408-74-3       | 1 ,2,3,7,8,9-Hexachlorodibenzo-p-dioxin    |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 57653-85-7       | 1 ,2,3,6,7,8-Hexachlorodibenzo-p-dioxin    |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 57117-41-6       | 1,2,3,7,8- pentachlorodibenzofuran         |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 70648-26-9       | 1,2,3,4,7,8-Hexachlorodibenzofuran         |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 72918-21-9       | 1,2,3,7,8,9-Hexachlorodibenzofuran         |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 57117-44-9       | 1,2,3,6,7,8-Hexachlorodibenzofuran         |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 60851-34-5       | 2,3,4,6,7,8-Hexachlorodibenzofuran         |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| Group 3)         |                                            |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 35822-46-9       | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin  | Sum of Groups 1, 2 & 3: 100 µg/kg                               |         |                                                                                              |                                                                 |                                                                |          |                |
| 3268-87-9        | 1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 67562-39-4       | 1,2,3,4,6,7,8-Heptachlorodibenzofuran      |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 55673-89-7       | 1,2,3,4,7,8,9-Heptachlorodibenzofuran      |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 39001-02-0       | 1,2,3,4,6,7,8,9-Octachlorodibenzofuran     |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| Group 4)         |                                            |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 50585-41-6       | 2,3,7,8-Tetrabromodibenzo-p-dioxin         | Sum of Group 4: 1 µg/kg                                         |         |                                                                                              |                                                                 |                                                                |          |                |
| 109333-34-8      | 1,2,3,7,8-Pentabromodibenzo-p-dioxin       |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 67733-57-7       | 2,3,7,8-Tetrabromodibenzofuran             |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 131166-92-2      | 2,3,4,7,8-Pentabromodibenzofuran           |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| Group 5)         |                                            |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 110999-44-5      | 1,2,3,4,7,8-Hexabromodibenzo-p-dioxin      | Sum of Groups 4 & 5: 5 µg/kg                                    |         |                                                                                              |                                                                 |                                                                |          |                |
| 110999-46-7      | 1,2,3,7,8,9-Hexabromodibenzo-p-dioxin      |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 110999-45-6      | 1,2,3,6,7,8-Hexabromodibenzo-p-dioxin      |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |
| 107555-93-1      | 1,2,3,7,8-Pentabromodibenzofuran           |                                                                 |         |                                                                                              |                                                                 |                                                                |          |                |

| Disperse Dyes |                                                                                                                                                                                  |                                                                 |         |                                                                   |                                                    |                                                                           |                                                                                                                                                                                                                                                                                                        |                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------|-------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CAS Number    | Chemical Name/Color Index Name                                                                                                                                                   | Restriction /Maximum Limit on Final Product or Tested Component | Country | Regulation                                                        | Test Method                                        | Other Countries, U.S. States that also Regulate this Substance            | Comments                                                                                                                                                                                                                                                                                               | GAFTI Comments |
| 39156-41-7    | 4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisoole sulphate                                                                                                          | 30 mg/kg                                                        | EU      | Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006 |                                                    |                                                                           |                                                                                                                                                                                                                                                                                                        |                |
| 3165-93-3     | 4-chloro-o-toluidinium chloride                                                                                                                                                  | 30 mg/kg                                                        | EU      |                                                                   |                                                    |                                                                           |                                                                                                                                                                                                                                                                                                        |                |
| 548-62-9      | [4-[4,4'-bis(dimethylamino)benzhydrylide ne]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride; C.I. Basic Violet 3 with $\geq 0,1$ % of Michler's ketone (EC no. 202-027-5) | 50 mg/kg                                                        | EU      |                                                                   |                                                    |                                                                           |                                                                                                                                                                                                                                                                                                        |                |
| 2475-45-8     | Disperse Blue 1                                                                                                                                                                  | Not Detected (below detection limits - see test method)         | Germany | German Food, Feed and Commodities Law §30 (LFGB §30)              | §64 LFGB B82.02-10 DIN 54231<br><br>KS K 0736:2014 | South Korea (applicable to babywear, children's wear and adult underwear) | The following disperse dyes are also restricted in Korea KC Mark:<br><br>Disperse Blue 3<br>Disperse Blue 7<br>Disperse Blue 26,<br>Disperse Blue 102<br>Disperse Orange 1<br>Disperse Yellow 1<br>Disperse Yellow 9<br>Disperse Yellow 39<br>Disperse Yellow 49<br>Disperse Red 11<br>Disperse Red 17 |                |
| 12222-75-2    | Disperse Blue 35                                                                                                                                                                 |                                                                 |         |                                                                   |                                                    |                                                                           |                                                                                                                                                                                                                                                                                                        |                |
| 12223-01-7    | Disperse Blue 106                                                                                                                                                                |                                                                 |         |                                                                   |                                                    |                                                                           |                                                                                                                                                                                                                                                                                                        |                |
| 61951-51-7    | Disperse Blue 124                                                                                                                                                                |                                                                 |         |                                                                   |                                                    |                                                                           |                                                                                                                                                                                                                                                                                                        |                |
| 730-40-5      | Disperse Orange 3                                                                                                                                                                |                                                                 |         |                                                                   |                                                    |                                                                           |                                                                                                                                                                                                                                                                                                        |                |
| 13301-61-6    | Disperse Orange 37/59/76                                                                                                                                                         |                                                                 |         |                                                                   |                                                    |                                                                           |                                                                                                                                                                                                                                                                                                        |                |
| 2872-52-8     | Disperse Red 1                                                                                                                                                                   |                                                                 |         |                                                                   |                                                    |                                                                           |                                                                                                                                                                                                                                                                                                        |                |
| 2832-40-8     | Disperse Yellow 3                                                                                                                                                                |                                                                 |         |                                                                   |                                                    |                                                                           |                                                                                                                                                                                                                                                                                                        |                |

| Carcinogenic Dyes* |                    |            |       |                |                                  |  |                                                                                                                                                                                 |  |
|--------------------|--------------------|------------|-------|----------------|----------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 3761-53-3          | Acid Red 26        | Prohibited | Egypt | ES 7266-4/2011 | DIN 54231 /<br>§64 LFGB 82.02-10 |  | * Carcinogenic is not used as a description of a sub category of dyes<br>• The term appears in the Egyptian law restricting the use of carcinogenic dyes in clothing & textiles |  |
| 569-61-9           | Basic Red 9        |            |       |                |                                  |  |                                                                                                                                                                                 |  |
| 632-99-5           | Basic Violet 14    |            |       |                |                                  |  |                                                                                                                                                                                 |  |
| 2602-46-2          | Direct Blue 6      |            |       |                |                                  |  |                                                                                                                                                                                 |  |
| 1937-37-7          | Direct Black 38    |            |       |                |                                  |  |                                                                                                                                                                                 |  |
| 573-58-0           | Direct Red 28      |            |       |                |                                  |  |                                                                                                                                                                                 |  |
| 2475-45-8          | Disperse Blue 1    |            |       |                |                                  |  |                                                                                                                                                                                 |  |
| 82-28-0            | Disperse Orange 11 |            |       |                |                                  |  |                                                                                                                                                                                 |  |
| 2832-40-8          | Disperse Yellow 3  |            |       |                |                                  |  |                                                                                                                                                                                 |  |

| Flame Retardants                                                          |                                      |                                                                 |                               |                                                                                                                                               |                                                                                                                    |                                                                                                |                                                                                                                                                                                                                                               |                |
|---------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CAS Number                                                                | Chemical Name/Color Index Name       | Restriction /Maximum Limit on Final Product or Tested Component | Country                       | Regulation                                                                                                                                    | Test Method                                                                                                        | Other Countries, U.S. States that also Regulate this Substance                                 | Comment                                                                                                                                                                                                                                       | GAFTI Comments |
| 85535-84-8                                                                | Chlorinated paraffins (C10-C13)      | 0.1% by weight                                                  | European Union<br>Switzerland | European Union POPs Regulation (EC) No. 850/2004, Annex I, amended by Regulation (EU) 2015/2030<br><br>SWITZERLAND: ORRChem annex 1.1 (Art.3) | Solvent extraction and GC-MS or LC-MS (industry practice - not specified by the regulation)<br><br>ISO 18219: 2015 | South Korea, and Canada                                                                        | REACH: Also listed on the SVHC Candidate List<br>POPs: Articles should not contain SCCPs above 0.15% by weight                                                                                                                                |                |
| 59536-65-1                                                                | Polybrominated biphenyls (PBBs)      | Prohibited                                                      | European Union                | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII                                                                                 | Methanol extraction: analysis by GC-MS or LC-MS (industry practice - not specified by the regulation)              | Turkey, Switzerland, Canada, US, South Korea, and Egypt                                        | EU requirement applicable to textiles with direct skin contact<br>South Korea requirement applicable only to bedclothes and nightclothes among underwear [applicable to textile products for babies, children and adult, and textile bedding] |                |
| 446255-22-7<br>207122-16-5,<br>68928-80-3                                 | Heptabromodiphenyl ether (HeptaBDE)  | 10 ppm                                                          | Switzerland                   | POP regulation and in Switzerland: ORRChem textiles annex 1.1 (Art.3)                                                                         | ISO 18219: 2015                                                                                                    |                                                                                                |                                                                                                                                                                                                                                               |                |
| 68631-49-2,<br>207122-15-4,<br>36483-60-0                                 | Hexabromodiphenyl ether (HexaBDE)    |                                                                 |                               |                                                                                                                                               |                                                                                                                    |                                                                                                |                                                                                                                                                                                                                                               |                |
| 5436-43-1,<br>40088-47-9                                                  | Tetrabromodiphenyl ether (TetraBDE)  |                                                                 |                               |                                                                                                                                               |                                                                                                                    |                                                                                                |                                                                                                                                                                                                                                               |                |
| 25637-99-4,<br>3194-55-6,<br>134237-50-6,<br>134237-51-7 ,<br>134237-52-8 | Hexabromocyclododecane (HBCDD)       | 100 ppm                                                         |                               |                                                                                                                                               |                                                                                                                    |                                                                                                |                                                                                                                                                                                                                                               |                |
| 32534-81-9                                                                | Penta-bromodiphenyl ether (pentaBDE) | ≤ 0.001% by weight                                              | European Union                | European Union POPs Regulation (EC) No. 850/2004, Annex I                                                                                     | Solvent extraction and analysis by GC-MS or LC-MS (industry practice - not specified by the regulation)            | United States, Switzerland, and South Korea (KC Mark, for more information review Appendix II) | South Korea requirement applicable only to bedclothes and nightclothes among underwear [applicable to textile products for babies, children and adult, and textile bedding]                                                                   |                |
| 32536-52-0                                                                | Octa-bromodiphenyl ether (octaBDE)   | ≤ 0.1% by weight                                                | European Union                | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII                                                                                 |                                                                                                                    |                                                                                                |                                                                                                                                                                                                                                               |                |

|           |                                            |                |                        |                                                                                                                                                     |                                                                                                                                    |                                                                                                             |                                                                                                                                                                                                                                                                                                           |  |
|-----------|--------------------------------------------|----------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 126-72-7  | Tris (2,3-dibromopropyl) phosphate (TRIS)  | Prohibited     | European Union         | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII                                                                                       | Methanol extraction and analysis by LC-MS or GC-MS (industry practice - not specified by the regulation)                           | Turkey, Switzerland, Japan, U.S., Egypt, and South Korea (KC Mark, for more information review Appendix II) | EU requirement applicable to textiles with direct contact with the skin.<br><br>South Korea requirement applicable only to bedclothes and nightclothes among underwear [applicable to textile products for babies, children and adult, and textile bedding]<br><br>US requirement applicable to sleepwear |  |
| 5412-25-9 | Bis (2,3-dibromopropyl) phosphate          | Prohibited     | Japan                  | Japanese law for the control of household products containing harmful substances; Law no. 112, October 12, 1973. Partially amended in 1978 and 1981 | Solvent extraction and analysis by GC-MS or LC-MS (industry practice - not specified by the regulation)                            |                                                                                                             |                                                                                                                                                                                                                                                                                                           |  |
| 545-55-1  | Tris (1-aziridinyl)-phosphine oxide (TEPA) | Prohibited     | European Union         | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII                                                                                       | KOH or NaOH digestion followed by GC-MS headspace analysis for ethyleneimine (industry practice - not specified by the regulation) | Switzerland, Turkey, Japan, South Korea, and Egypt                                                          | EU requirement applicable to textiles with direct contact with the skin                                                                                                                                                                                                                                   |  |
| 1163-19-5 | Decabromodiphenyl ether (DecaBDE)          | 0.1% by weight | Oregon (United States) | SB 596                                                                                                                                              | Solvent extraction and analysis by GC-MS or LC-MS (industry practice - not specified by the regulation)                            | Also regulated in various States in the U.S                                                                 | European Union REACH Regulation (EC) No. 1907/2006 Candidate List                                                                                                                                                                                                                                         |  |

|            |                                               |                |                          |                                                       |                                                                                                         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
|------------|-----------------------------------------------|----------------|--------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 115-96-8   | Tris(2-chloroethyl) phosphate (TCEP)          | Prohibited     | New York (United States) | A6195/                                                | Solvent extraction and analysis by GC-MS or LC-MS (industry practice - not specified by the regulation) | Canada, EU | <p>New York ban applies to consumer products, such as baby products, toys, car seats, nursing pillows, crib mattresses, and strollers for intended for use by a child under three years of age</p> <p>European Union REACH Regulation (EC) No. 1907/2006 Candidate List</p> <p>Canada: Regulation Amending Schedule 2 Item 16 to the Canada Consumer Product Safety Act (TCEP) Effective June 22, 2014</p> <p>The Canada requirement is only applied for children's products (&lt; 3 years) made of polyurethane foam</p> |  |
| 13674-87-8 | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 0.1% by weight | Vermont, U.S.A           | S81                                                   | Solvent extraction and analysis by GC-MS or LC-MS (industry practice - not specified by the regulation) |            | This chemical should not exceed 0.1% for children products(<12 yr) & residential upholstered furniture                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 1163-19-5  | Decabromodiphenyl ether (decaBDE)             | 0.1% by weight | EU                       | Amendment 2017/227 to Annex XVII in (EC) No 1907/2006 |                                                                                                         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |

| Fluorinated Greenhouse Gases |                                                                              |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
|------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------|--------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------|----------------|
| CAS Number                   | Chemical Name/Color Index Name                                               | Restriction /Maximum Limit on Final Product or Tested Component | Country        | Regulation                                 | Test Method                                                                    | Other Countries, U.S. States that also Regulate this Substance | Comments                 | GAFTI Comments |
| 2551-62-4                    | Sulfur hexafluoride - SF <sub>6</sub>                                        | Prohibited                                                      | European Union | European Union Regulation (EU) No 517/2014 | Headspace for components (industry practice - not specified by the regulation) |                                                                | Regulation (EU) 517/2014 |                |
|                              | <b>Hydrofluorocarbons (HFCs):</b>                                            |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 75-46-7                      | HFC-23 - CHF <sub>3</sub>                                                    |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 75-10-5                      | HFC-32 - CH <sub>2</sub> F <sub>2</sub>                                      |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 593-53-3                     | HFC-41 - CH <sub>3</sub> F                                                   |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 138495-42-8                  | HFC-43-10mee - C <sub>5</sub> H <sub>2</sub> F <sub>10</sub>                 |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 354-33-6                     | HFC-125 - C <sub>2</sub> HF <sub>5</sub>                                     |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 359-35-3                     | HFC-134 - C <sub>2</sub> H <sub>2</sub> F <sub>4</sub>                       |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 811-97-2                     | HFC-134a - CH <sub>2</sub> FCF <sub>3</sub>                                  |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 75-37-6                      | HFC-152a - C <sub>2</sub> H <sub>4</sub> F <sub>2</sub>                      |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 430-66-0                     | HFC-143 - C <sub>2</sub> H <sub>3</sub> F <sub>3</sub>                       |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 420-46-2                     | HFC-143a - C <sub>2</sub> H <sub>3</sub> F <sub>3</sub>                      |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 431-89-0                     | HFC-227ea - C <sub>3</sub> HF <sub>7</sub>                                   |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 677-56-5                     | HFC-236cb - CH <sub>2</sub> FCF <sub>2</sub> CF <sub>3</sub>                 |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 431-63-0                     | HFC-236ea - CHF <sub>2</sub> CHFCF <sub>3</sub>                              |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 690-39-1                     | HFC-236fa - C <sub>3</sub> H <sub>2</sub> F <sub>6</sub>                     |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 679-86-7                     | HFC-245ca - C <sub>3</sub> H <sub>3</sub> F <sub>5</sub>                     |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 460-73-1                     | HFC-245fa - CHF <sub>2</sub> CH <sub>2</sub> CF <sub>3</sub>                 |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 406-58-6                     | HFC-365mfc - CF <sub>3</sub> CH <sub>2</sub> CF <sub>2</sub> CH <sub>3</sub> |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
|                              | <b>Perfluorocarbons (PFCs):</b>                                              |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 75-73-0                      | Perfluoromethane - CF <sub>4</sub>                                           |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 76-16-4                      | Perfluoroethane - C <sub>2</sub> F <sub>6</sub>                              |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 76-19-7                      | Perfluoropropane - C <sub>3</sub> F <sub>8</sub>                             |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 355-25-9                     | Perfluorobutane - C <sub>4</sub> F <sub>10</sub>                             |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 678-26-2                     | Perfluoropentane - C <sub>5</sub> F <sub>12</sub>                            |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 355-42-0                     | Perfluorohexane - C <sub>6</sub> F <sub>14</sub>                             |                                                                 |                |                                            |                                                                                |                                                                |                          |                |
| 115-25-3                     | Perfluorocyclobutane - c-C <sub>4</sub> F <sub>8</sub>                       |                                                                 |                |                                            |                                                                                |                                                                |                          |                |

| Metals     |                                |                                                                                                                                            |                |                                                                                                       |                                                                                                                          |                                                                              |                                                                                                                                                                                                                                                         |                |
|------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CAS Number | Chemical Name/Color Index Name | Restriction /Maximum Limit on Final Product or Tested Component                                                                            | Country        | Regulation                                                                                            | Test Method                                                                                                              | Other Countries, U.S. States that also Regulate this Substance               | Comment                                                                                                                                                                                                                                                 | GAFTI Comments |
| 7440-43-9  | Cadmium (Cd)                   | Prohibited                                                                                                                                 | Taiwan         | CNS 15290                                                                                             | CNS 4797-2                                                                                                               | EU, and Turkey                                                               | For all textile products and textile accessories. Test method CNS 4797-2 is similar to EN 71-3 for determination of soluble Cadmium content<br><br>Washington State Children's Product Safety Act: total cadmium : 40 mg/kg                             |                |
| 7439-92-1  | Lead (Pb)                      | Total Lead: 500 ppm<br>Rate of lead release of Lead: $\leq 0.05 \mu\text{g}/\text{cm}^2/\text{h}$ ( $0.05 \mu\text{g}/\text{g}/\text{h}$ ) | European Union | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII                                         | Total Lead: Total Digestion (industry practice - not specified by the regulation)                                        |                                                                              | This restriction is applicable to products which are supplied to the general public, and can be placed in the mouth by children. This restriction will apply from 1 June 2016.                                                                          |                |
| 7439-92-1  | Lead (Pb)                      | 90 PPM                                                                                                                                     | Korea          | Korea Certification Mark (KC Mark, for more information review Appendix II)                           |                                                                                                                          | U.S., Egypt, Taiwan, Denmark<br>Statutory Order no. 856 of September 5, 2009 | Applies to textile products for children. (0 - 12 years) CPSC determined textiles are exempt from testing since they are unlikely to contain lead in excess of 100ppm<br><br>Determination does not include post-production prints and surface coatings |                |
| 7439-92-1  | Lead (Pb)                      | 100 mg/kg                                                                                                                                  | China          | GB 30585-2014 (Safety technical specification for children's footwear)                                | QB/T 4340 Footwear - Chemical test method - total heavy metal content - Inductively coupled plasma emission spectroscopy |                                                                              | Applies to children's footwear ( $\leq 14$ years old), Size of the shoes $< 250 \text{ mm}$ (exclude children's rubber shoes)                                                                                                                           |                |
| 7440-43-9  | Cadmium (Cd)                   |                                                                                                                                            |                |                                                                                                       |                                                                                                                          |                                                                              |                                                                                                                                                                                                                                                         |                |
| 7439-92-1  | Lead (Pb)                      | 0.2 ppm (leachable)                                                                                                                        | China          | FZ/T 81014-2008 - Infant's wear (woven)                                                               | GB/T 17593.1 Textiles-Determination of heavy metals Part 1: Atomic absorption spectrophotometry                          |                                                                              | Applies to woven infant wear and adornment products ( $\leq 24$ months) only<br><br>FZ/T 73025-2013 (Knitted garment and adornment for infant) Applies to infant knitted wear ( $\leq 36$ months) or body height ( $\leq 100 \text{ cm}$ )              |                |
| 7440-47-3  | Chromium                       | 1.0 ppm (leachable)                                                                                                                        |                | FZ/T 73025-2013 (Knitted garment and adornment for infant)                                            |                                                                                                                          |                                                                              |                                                                                                                                                                                                                                                         |                |
| 7439-97-6  | Mercury                        | 0.02 ppm (leachable)                                                                                                                       | China          | FZ/T 81014-2008 - Infant's wear (woven)                                                               | GB/T 17593.4 Textiles-Arsenic and Mercury                                                                                |                                                                              | Applies to woven infant wear and adornment products ( $\leq 24$ months) only<br><br>FZ/T 73025-2013 (Knitted garment and adornment for infant) Applies to infant knitted wear ( $\leq 36$ months) or body height ( $\leq 100 \text{ cm}$ )              |                |
| 7440-38-2  | Arsenic                        | 0.2 ppm (leachable)                                                                                                                        |                | FZ/T 73025-2013 (Knitted garment and adornment for infant)                                            |                                                                                                                          |                                                                              |                                                                                                                                                                                                                                                         |                |
| 7440-50-8  | Copper                         | 25 ppm (leachable)                                                                                                                         | China          | FZ/T 81014-2008 - Infant's wear (woven)<br>FZ/T 73025-2013 (Knitted garment and adornment for infant) | GB/T 17593.1 Textiles-Determination of heavy metals Part 1: Atomic absorption spectrophotometry                          |                                                                              | Applies to knitted textile products, including clothing, bedding and accessories for infants<br><br>Infant is a child $\leq 36$ months old or $\leq 100 \text{ cm}$ in height.                                                                          |                |

|                               |                              |                                                                                                |                |                                                                        |                                                                                                                               |                                                                      |                                                                                                                                                                                                                             |  |
|-------------------------------|------------------------------|------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 7440-43-9                     | Cadmium (Cd)                 | Prohibited                                                                                     | Taiwan         | CNS 15290                                                              | CNS 4797-2                                                                                                                    | EU, and Turkey                                                       | For all textile products and textile accessories. Test method CNS 4797-2 is similar to EN 71-3 for determination of soluble Cadmium content<br><br>Washington State Children's Product Safety Act: total cadmium : 40 mg/kg |  |
| 7440-38-2                     | Arsenic (As)                 | Prohibited                                                                                     | Taiwan         | CNS 15290                                                              | CNS 4797-2                                                                                                                    | EU, Egypt, and South Korea                                           | For all textile products and textile accessories                                                                                                                                                                            |  |
| <b>Retrictions for Metals</b> |                              |                                                                                                |                |                                                                        |                                                                                                                               |                                                                      |                                                                                                                                                                                                                             |  |
| 7439-92-1                     | Lead (Pb)                    | 0.2 ppm (leachable)                                                                            | Indonesia      | Regulation, No. 07/M-IND/PER/2/2014                                    | ISO 105-E04 followed by ICP-OES/AAS analysis                                                                                  |                                                                      | Infant apparel (0-36 months)                                                                                                                                                                                                |  |
| 7440-50-8                     | Copper                       | 25 ppm (leachable)                                                                             |                |                                                                        |                                                                                                                               |                                                                      |                                                                                                                                                                                                                             |  |
| 7440-36-0                     | Antimony                     | 30ppm (leachable)                                                                              | China          | FZ/T 73025-2013 (Knitted garment and adornment for infant)             | GB/T 17593.4 Textiles-Determination of heavy metals Part 1: Atomic absorption spectrophotometry                               | EU Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006 | Applies to knitted textile products, including clothing, bedding and accessories for infants<br><br>Infant is a child ≤ 36 months old or ≤ 100 cm in height                                                                 |  |
| 7440-43-9                     | Cadmium (Cd)                 | 0.1 ppm (leachable)                                                                            |                |                                                                        |                                                                                                                               |                                                                      |                                                                                                                                                                                                                             |  |
| 7440-48-4                     | Cobalt                       | 1.0ppm (leachable)                                                                             |                |                                                                        |                                                                                                                               |                                                                      |                                                                                                                                                                                                                             |  |
| 7440-02-0                     | Nickel (Ni)                  | 1.0 ppm (leachable)                                                                            |                |                                                                        |                                                                                                                               |                                                                      |                                                                                                                                                                                                                             |  |
| 18540-29-9                    | Chromium (Cr6+) hexavalent   | Not Detected (0.5 ppm leachable)                                                               | China          | FZ/T 73025-2013 (Knitted garment and adornment for infant)             | GB/T 17593.4 Textiles-Determination of heavy metals Part 4: Determination of tear force of tongue-shaped test specimens       |                                                                      |                                                                                                                                                                                                                             |  |
| 7440-38-2                     | Arsenic (As)                 | 100 mg/kg                                                                                      | China          | GB 30585-2014 (Safety technical specification for children's footwear) | QB/T 4340 Footwear - Chemical test method - total heavy metal content - Inductively coupled plasma emission spectroscopy      |                                                                      | Applies to children's footwear (≤14 years old) , Size of the shoes <250 mm (exclude children's rubber shoes)                                                                                                                |  |
| 7439-92-1                     | Lead (Pb)                    |                                                                                                |                |                                                                        |                                                                                                                               |                                                                      |                                                                                                                                                                                                                             |  |
| 7440-43-9                     | Cadmium (Cd)                 |                                                                                                |                |                                                                        |                                                                                                                               |                                                                      |                                                                                                                                                                                                                             |  |
| 7439-92-1                     | Lead (Pb)                    | Total Lead: 500 ppm<br>Rate of lead release of Lead: ≤0.05 µg/cm <sup>2</sup> /h (0.05 µg/g/h) | European Union | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII          | Total Lead: Total Digestion (industry practice - not specified by the regulation)                                             |                                                                      | This restriction is applicable to products which are supplied to the general public, and can be placed in the mouth by children.                                                                                            |  |
| 7439-92-1                     | Lead (Pb)                    | 100 ppm                                                                                        | Denmark        | Statutory Order no. 856 of September 5, 2009                           | Total Digestion (industry practice - not specified by the regulation)                                                         | U.S., Egypt, and South Korea                                         | U.S. federal lead substrate restrictions for each component in children's products (12 years and under)<br><br>The CPSC requires specific test methods to be used for certification                                         |  |
| 7440-02-0                     | Nickel (Ni) (in metal items) | 0.5 µg/cm <sup>2</sup> /week                                                                   | European Union | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII          | Nickel release by EN 1811:2011+A1:2015 for non-coated item;<br>EN 12472:2005+A1:2009 and EN 1811:2011+A1:2015 for coated item | Egypt                                                                | Restriction only applicable in cases where there is direct and prolonged contact with skin                                                                                                                                  |  |

|                                                   |                               |                                                                                                |                |                                                                                                  |                                                                                                                          |                                                                                                              |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                   |
|---------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7440-43-9                                         | Cadmium (Cd)                  | Prohibited                                                                                     | Taiwan         | CNS 15290                                                                                        | CNS 4797-2                                                                                                               | EU, and Turkey                                                                                               | For all textile products and textile accessories. Test method CNS 4797-2 is similar to EN 71-3 for determination of soluble Cadmium content<br><br>Washington State Children's Product Safety Act: total cadmium : 40 mg/kg                                                                    |                                                                                                                                                                                                   |
| 7440-43-9                                         | Cadmium                       | 100 ppm                                                                                        | European Union | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII                                    | Total Digestion (industry practice- not specified by the regulation)                                                     |                                                                                                              | This restriction is applicable to jewellery, imitation jewellery and hair accessories<br><br>Washington State Children's Product Safety Act: total cadmium : 40 mg/kg                                                                                                                          | Extractable Content: EN71.3<br>Total Content: CPSC-CH E1001-08.1<br>( <a href="http://www.gafti.org/template?series=4&amp;article=11">http://www.gafti.org/template?series=4&amp;article=11</a> ) |
| <b>Restrictions for Leather</b>                   |                               |                                                                                                |                |                                                                                                  |                                                                                                                          |                                                                                                              |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                   |
| 7440-38-2                                         | Arsenic                       | 100 mg/kg                                                                                      | China          | GB 30585-2014 (Safety technical specification for children's footwear)                           | QB/T 4340 Footwear - Chemical test method - total heavy metal content - Inductively coupled plasma emission spectroscopy |                                                                                                              | Applies to children's footwear (≤14 years old) , Size of the shoes <250 mm (exclude children's rubber shoes)                                                                                                                                                                                   | Extractable Content: EN71.3<br>Total Content: CPSC-CH E1002-08.1<br>( <a href="http://www.gafti.org/template?series=4&amp;article=11">http://www.gafti.org/template?series=4&amp;article=11</a> ) |
| 7440-43-9                                         | Cadmium (Cd)                  | Prohibited                                                                                     | Taiwan         | CNS 15290                                                                                        | CNS 4797-2                                                                                                               | EU, Egypt, China, and South Korea                                                                            | For all textile products and textile accessories                                                                                                                                                                                                                                               |                                                                                                                                                                                                   |
| 18540-29-9                                        | Chromium (Cr 6+) - hexavalent | Not Detected (detection limit is 3 ppm)                                                        | Germany        | Eighteenth Regulation on the Amendment of the German Ordinance on Commodities of 3rd August 2010 | § 64 LFGB 82.02 - 11(2008) ISO 17075 QB/T 22807 Leather and fur—Chemical tests—Determination of chromium VI content      | South Korea, Taiwan, China GB 30585-2014 (Safety technical specification for children's footwear), and Egypt | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII requirement: < 3 ppm                                                                                                                                                                                                             |                                                                                                                                                                                                   |
| 7439-92-1                                         | Lead (Pb)                     | Total Lead: 500 ppm<br>Rate of lead release of Lead: ≤0.05 µg/cm <sup>2</sup> /h (0.05 µg/g/h) | European Union | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII                                    | Total Lead: Total Digestion (industry practice - not specified by the regulation)                                        |                                                                                                              | This restriction is applicable to products which are supplied to the general public, and can be placed in the mouth by children.                                                                                                                                                               |                                                                                                                                                                                                   |
| 7439-92-1                                         | Lead (Pb)                     | 100 ppm                                                                                        | Denmark        | Statutory Order no. 856 of September 5, 2009                                                     | Total Digestion (industry practice - not specified by the regulation)                                                    | U.S., GB 30585-2014 (Safety technical specification for children's footwear)                                 | U.S. federal lead substrate restrictions for each component in children's products (12 years and under)<br><br>CPSC determined leather can be exempt from testing since it is unlikely to contain lead in excess of 100ppm<br><br>Determination does not include finishes and surface coatings |                                                                                                                                                                                                   |
| <b>Restrictions for Plastics and Plastic Film</b> |                               |                                                                                                |                |                                                                                                  |                                                                                                                          |                                                                                                              |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                   |
| 7439-92-1                                         | Lead (Pb)                     | 100ppm                                                                                         | Denmark        | Statutory Order no. 856 of September 5, 2009                                                     | Total Digestion (industry practice - not specified by the regulation)<br>Self_                                           | U.S.<br>South Korea (plastic trims for baby and children wear: 90 ppm), and Egypt                            | U.S. federal lead substrate restrictions for each component in children's products (12 years and under)<br><br>After August 14, 2011 the level dropped to 100 ppm<br><br>The CPSC requires specific test methods to be used for certification.                                                 |                                                                                                                                                                                                   |

|                                                       |                                                                                                              |                                                                                                                                                                                                                 |                     |                                                                                                            |                                                                      |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7440-43-9                                             | Cadmium (Cd)                                                                                                 | Prohibited                                                                                                                                                                                                      | Taiwan              | CNS 15290                                                                                                  | CNS 4797-2                                                           | EU, and Turkey                                                                                                                                                                                                                                                                              | For all textile products and textile accessories. Test method CNS 4797-2 is similar to EN 71-3 for determination of soluble Cadmium content<br><br>Washington State Children's Product Safety Act: total cadmium : 40 mg/kg                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |
| 7440-43-9                                             | Cadmium (Cd)                                                                                                 | 100 ppm                                                                                                                                                                                                         | European Union      | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII                                              | Total Digestion (industry practice- not specified by the regulation) | Egypt, South Korea                                                                                                                                                                                                                                                                          | It is applicable to particular plastic materials such as PVC, PU, etc                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                      |
| 18540-29-9                                            | Chromium (Cr6+) hexavalent                                                                                   | 10ppm                                                                                                                                                                                                           | Taiwan              | CNS 15503                                                                                                  | CNS 15331 Annex A<br>CNS 15331 Annex B                               |                                                                                                                                                                                                                                                                                             | For children's products                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                      |
| <b>Restrictions for Surface Coatings and Printing</b> |                                                                                                              |                                                                                                                                                                                                                 |                     |                                                                                                            |                                                                      |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                      |
| 7439-92-1                                             | Lead (Pb)                                                                                                    | 90 ppm                                                                                                                                                                                                          | United States       | 16 C.F.R. §1303 – Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint | CPSC-CH-E1003-09.1<br><br>ASTM F2853-10                              | Argentina, Canada, Taiwan, South Korea (baby and children wear: 90 ppm), Denmark (100 ppm applies to all products), Egypt, and European Union REACH Regulation (EC) No. 1907/2006 Annex XVII Total Lead: 500 ppm<br>Rate of lead release of Lead: ≤0.05 µg/cm <sup>2</sup> /h (0.05 µg/g/h) | U.S. federal lead in paint rules for children 12 and under set at 90 ppm for goods made on or after August 14, 2009 Argentina: Resolution 7/2009 established a restriction on lead content in paints, lacquers and varnishes<br><br>Lead restriction set to 600 ppm and applies to paints, lacquers and varnishes defined as 'fluids, semi-fluids or solids with or without pigments which change to a solid film after their application in thin layers on metal, wood, stone, paper, leather, fabric, plastic or other materials' | Extractable Content: ASTM F963<br>Total Content: CPSC-CH-E1003-09.1<br>( <a href="http://www.gafti.org/itemplate?series=4&amp;article=1">http://www.gafti.org/itemplate?series=4&amp;article=1</a> ) |
| <b>Soluble Heavy Metals</b>                           |                                                                                                              |                                                                                                                                                                                                                 |                     |                                                                                                            |                                                                      |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                      |
|                                                       | China: PVC artificial leather                                                                                | Lead: 90 mg/kg<br>Cadmium: 75 mg/kg                                                                                                                                                                             | China               | GB 21550-2008                                                                                              | GB 21550 Clause 5.4                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                      |
|                                                       | Egypt: children less than 36 months footwear, size 26 and less<br><br>Taiwan: Children products up to age 14 | Antimony: 30 mg/kg<br>Arsenic: 0.2 mg/kg<br>Barium: 1000 mg/kg<br>Cadmium: 0.1 mg/kg<br>Chromium: 2 mg/kg for Children/ 200 mg/kg (for others)<br>Lead: 0.2 mg/kg<br>Mercury: 0.02 mg/kg<br>Selenium: 500 mg/kg | Egypt<br><br>Taiwan | ES 7322/2011<br><br>CNS 15503 (children's product)                                                         | EN 71-3<br><br>CNS 4797-2<br>ISO 17072-1                             |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                      |

| Miscellaneous |                                                                                                              |                                                                                |                     |                                                                   |                                                                                                                    |                                                                                                                                                                |                                                                                                                                                                                                                                                                                              |                |
|---------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CAS Number    | Chemical Name/Color Index Name                                                                               | Restriction /Maximum Limit on Final Product or Tested Component                | Country             | Regulation                                                        | Test Method                                                                                                        | Other Countries, U.S. States that also Regulate this Substance                                                                                                 | Comments                                                                                                                                                                                                                                                                                     | GAFTI Comments |
| 50-00-0       | Formaldehyde<br>0-36 months old                                                                              | Not Detected (detection limit is 16 mg/kg) (textiles)                          | Japan               | Japanese Law 112                                                  | Textile: ISO 14184-1 or JIS L1041 (Law 112) (textiles)<br>China GB/T 2912.1<br>CNS 15580-1<br>Leather: ISO 17226-2 | China, Russia, Finland, Norway, France, Netherlands, Austria, Lithuania, Germany, New Zealand, South Korea, Vietnam, Taiwan, Egypt, Indonesia and US Minnesota | Vietnam, South Korea define baby products as 0-36 months old<br><br>Japan and Taiwan define baby products as 0-24 months<br><br>South Korea also regulates bed clothes with a limit of 300ppm<br><br>Taiwan regulates indoor decorative textile with a limit of 300ppm                       |                |
|               | >36 months old (with direct skin contact)                                                                    | 75 ppm (detection limit is 16 mg/kg) (textiles)                                | Japan               | Japanese Law 112                                                  | CNS 15579                                                                                                          |                                                                                                                                                                | China defines baby products based on particular standards in Textile Product (GB 18401) is 0-36 months.<br><br>Leather Product (GB 20400 is 0-24 months)<br><br>GB 30585 regulates Formaldehyde in children's shoes (≤14 years old) , Size of the shoes <250 mm (will apply from 1 Jan 2016) |                |
|               | >36 months old (no direct skin contact)                                                                      | 300 ppm (detection limit is 16 mg/kg) (textiles)                               | See other countries |                                                                   | Textile: ISO 14184-1 or JIS L1041 (Law 112) (textiles), China GB/T 2912.1, Leather: ISO 17226-2                    |                                                                                                                                                                | US Minnesota Statutes, chapter 325F regulate formaldehyde in children's products (<8 years old), <500 ppm                                                                                                                                                                                    |                |
|               | Formaldehyde (leather and fur) Baby products (0-24 months)                                                   | 20 ppm                                                                         | China               | GB20400-2006                                                      | GB/T 19941                                                                                                         |                                                                                                                                                                |                                                                                                                                                                                                                                                                                              |                |
|               | Leather and fur (with direct skin contact)                                                                   | 75 ppm                                                                         | China               | GB20400-2006                                                      | GB/T 19941                                                                                                         |                                                                                                                                                                |                                                                                                                                                                                                                                                                                              |                |
|               | Leather and fur (without direct skin contact)                                                                | 300 ppm                                                                        | China               | GB20400-2006                                                      | GB/T 19941                                                                                                         |                                                                                                                                                                |                                                                                                                                                                                                                                                                                              |                |
|               | Formaldehyde (infant athletic shoes and skin contact components in children's athletic shoes)                | ≤ 75 ppm                                                                       | China               | QB/T 4331                                                         | Textile: GB/T 2912.1-2009<br>Leather: GB/T 19941-2005                                                              |                                                                                                                                                                | Infant athletic shoes are defined as athletic shoes not greater than 170mm in size to be worn by a child under 3 years of age<br><br>Children athletic shoes are defined as athletic shoes not greater than 250mm in size to be worn by a child between 3 and 14 years of age                |                |
|               | Formaldehyde (non-skin contact components on children's athletic shoes)                                      | ≤ 300 ppm                                                                      | China               |                                                                   | Textile: GB/T 2912.1-2009<br>Leather: GB/T 19941-2005                                                              |                                                                                                                                                                |                                                                                                                                                                                                                                                                                              |                |
|               | Formaldehyde (Textiles and artificial leather on upper, lining and insole of vulcanized shoes- infant shoes) | ≤ 75 ppm                                                                       | China               |                                                                   | GB/T 2912.1-2009                                                                                                   |                                                                                                                                                                |                                                                                                                                                                                                                                                                                              |                |
|               | Formaldehyde (Textiles and artificial leather on upper, lining and insole of vulcanized shoes- other shoes)  | ≤ 150 ppm                                                                      | China               |                                                                   | GB/T 2912.1-2009                                                                                                   |                                                                                                                                                                |                                                                                                                                                                                                                                                                                              |                |
| 71-43-2       | Benzene                                                                                                      | 5 mg/kg                                                                        | EU                  | Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006 |                                                                                                                    |                                                                                                                                                                |                                                                                                                                                                                                                                                                                              |                |
| 2795-39-3     | Perfluorooctane sulfonate (PFOS)                                                                             | 1 µg/m <sup>2</sup> (textiles or other coated materials)<br><0.1% for articles | European Union      | European Union POPs Regulation (EC) No. 850/2004 Annex I          | Solvent Extraction LC-MS (industry practice-not specified by the regulation)                                       | Canada and Norway, Egypt, Switzerland, and Turkey                                                                                                              | The Canadian Environmental Protection Act, 1999 (CEPA 1999), Registration SOR 2008/178 prohibits the manufacture, use, sale, offer for sale and import of PFOS, as well as products containing PFOS                                                                                          |                |

|                                                                                      |                                                     |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
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| 335-67-1,<br>3825-26-1<br>335-95-5<br>2395-00-8<br>335-66-0<br>376-27-2<br>3108-24-5 | Perfluorooctanoic acid (PFOA), its salts and esters | 1 µg/m² (textiles or other coated materials) 0.1% by weight (product) 0.001% by weight (substances or mixtures) | Norway         | Norwegian Product Regulation                                                                                                                                              | CEN/TS 15968:2010                                                                                       | European Union REACH Regulation (EC) No 1907/2006 Annex XVII entry 68 (will apply from 4 July 2020) | Effective June 1, 2014 PFOA is added to Norwegian Product Regulation with different limits in various materials.<br><br>The substances whose CAS NO. are 335-67-1 and 3825-26-1 are listed under European Union REACH Regulation (EC) no. 1907/2006 Candidate List |  |
| 118685-33-9                                                                          | Blue Colorant                                       | Prohibited; 0.1% by weight for EU                                                                               | European union | European Union REACH Regulation (EC) No 1907/2006 Annex XVII                                                                                                              |                                                                                                         | Norway, Egypt, and Switzerland: ORRChem textiles annex 1.13 (Art.3)                                 | Restriction of Blue Colorant in EU applies to substances and mixtures only. (Egypt applies to finished textile products)                                                                                                                                           |  |
| 25154-52-3                                                                           | Nonyl phenol                                        | 1000ppm                                                                                                         | European Union | European Union REACH Regulation (EC) No 1907/2006 Annex XVII and European Union REACH Regulation (EC) no. 1907/2006 Candidate List                                        |                                                                                                         | Taiwan CNS 15290 (for children's textile products below age 12 only), and Turkey                    | For substances and mixtures only. Also for textile and leather processing                                                                                                                                                                                          |  |
| 2795-39-3                                                                            | Nonyl phenoethoxylates                              | 100ppm                                                                                                          |                | European Union REACH Regulation (EC) No 1907/2006 Annex XVII entry 46a (will apply from 3 Feb 2021) and European Union REACH Regulation (EC) no. 1907/2006 Candidate List | BS EN ISO 18254 Textiles- Methods for the Detection and Determination of alkyl phenol ethoxylates APEOS |                                                                                                     | REACH Annex XVII entry 46a is applicable to textile articles which can reasonably be expected to be washed in water                                                                                                                                                |  |
|                                                                                      | pH value                                            | 4.0 - 7.5 (0-36 months)<br>4.0 - 8.5 (direct skin contact)<br>4.0 - 9.0 (without direct skin contact)           | China          | GB 18401-2010                                                                                                                                                             | GB/T 7573                                                                                               |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
|                                                                                      |                                                     | 4.0 - 7.5 (infant, children, innerwear, midwear) 4.0-9.0 (outerwear, bedding)<br>4.0 - 9.0 (outerwear, bedding) | South Korea    | KC Mark                                                                                                                                                                   | KS K ISO 3071 / ISO 3071                                                                                |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
|                                                                                      |                                                     | not less than 3.5                                                                                               | Egypt          | ES 6535/2008                                                                                                                                                              | ISO 4045                                                                                                |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 75-01-4                                                                              | Vinyl Chloride Monomer (VCM)                        | 1 mg/kg                                                                                                         | Egypt          | ES 7322/2011                                                                                                                                                              | ISO 6041 / §64 LFGB B80.32-1:1981-11 / 80/766/EC                                                        | Germany- Bedarfsgegenstände Verordnung" German Consumer Goods Ordinance                             |                                                                                                                                                                                                                                                                    |  |
|                                                                                      |                                                     | 5 mg/kg                                                                                                         | China          | GB 21550-2008                                                                                                                                                             | GB/T 4615-1984                                                                                          |                                                                                                     | for polyvinyl chloride artificial leather only                                                                                                                                                                                                                     |  |
| N-Nitrosamines                                                                       |                                                     |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 62-75-9                                                                              | N-Nitrosodiethylamine                               | Not detected (detection limit: 0.5 mg/kg)                                                                       | China          | GB 25036-2010<br>GB 25038-2010<br>GB 30585-2014                                                                                                                           | GB/T 24153                                                                                              |                                                                                                     | only applicable for rubber component on vulcanized shoes<br>*GB 30585-2014 (only applicable to rubber parts of infant shoes)                                                                                                                                       |  |
| 55-18-5                                                                              | N-Nitrosodibutylamine                               |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 621-64-7                                                                             | N-Nitrosopiperidine                                 |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 924-16-3                                                                             | N-Nitrosopyrrolidine                                |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 100-75-4                                                                             | N-Nitrosomorpholine                                 |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 930-55-2                                                                             | 1-Nitrosopyrrolidine                                |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 59-89-2                                                                              | Nitrosomorpholine                                   |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 614-00-6                                                                             | N-Nitroso-N-methylaniline                           |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 612-64-6                                                                             | N-Nitroso-N-ethylaniline                            |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| Polycyclic aromatic hydrocarbons (PAH)                                               |                                                     |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 91-20-3                                                                              | Naphthalene (Taiwan only)                           |                                                                                                                 |                | CNS 3478 (Plastic shoes)                                                                                                                                                  |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 208-96-8                                                                             | Acenaphthylene (Taiwan only)                        |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |
| 83-32-9                                                                              | Acenaphthene (Taiwan only)                          |                                                                                                                 |                |                                                                                                                                                                           |                                                                                                         |                                                                                                     |                                                                                                                                                                                                                                                                    |  |

|           |                                                         |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
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| 86-73-7   | Fluorene (Taiwan only)                                  | Taiwan:<br>Benzo(a)pyrene:<br>1mg/kg<br>Total of 16 PAH:<br>10mg/kg<br><br>EU: Articles in direct skin<br>contact with:<br>1 mg/kg (each)<br>Childcare article:<br>0.5 mg/kg (each) | Taiwan and the<br>European Union | CNS 15503 (children products) (up to<br>age 14)                      | CNS 3478 Clause 6.18 |  |  |  |
| 85-01-8   | Phenanthrene (Taiwan only)                              |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 120-12-7  | Anthracene (Taiwan only)                                |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 206-44-0  | Fluoranthene (Taiwan only)                              |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 129-00-0  | Pyrene (Taiwan only)                                    |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 56-55-3   | Benzo(a)anthracene (Taiwan and EU)                      |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 218-01-9  | Chrysene (Taiwan and EU)                                |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 193-39-5  | Indeno(1,2,3-cd)pyrene (Taiwan only)                    |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 205-99-2  | Benzo(b)fluoranthene (Taiwan and EU)                    |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 207-08-9  | Benzo(k)fluoranthene (Taiwan and EU)                    |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 50-32-8   | Benzo(a)pyrene (Taiwan and EU)                          |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 53-70-3   | Dibenzo(a,h)anthracene (Taiwan and EU)                  |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 191-24-2  | Benzo(g,h,i)perylene (Taiwan only)                      |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 192-97-2  | Benzo(e)pyrene (EU only)                                |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 205-82-3  | Benzo(j)fluoranthene (EU only)                          |                                                                                                                                                                                     |                                  |                                                                      |                      |  |  |  |
| 5216-25-1 | α, α, α, 4-tetrachlorotoluene; p-chlorobenzotrichloride | 1 mg/kg                                                                                                                                                                             | EU                               | Amendment 2018/1513 to Annex XVII to<br>Regulation (EC) No 1907/2006 |                      |  |  |  |
| 98-07-7   | α, α, α-trichlorotoluene; benzotrichloride              | 1 mg/kg                                                                                                                                                                             | EU                               |                                                                      |                      |  |  |  |
| 100-44-7  | α-chlorotoluene; benzyl chloride                        | 1 mg/kg                                                                                                                                                                             | EU                               |                                                                      |                      |  |  |  |

| Organotin Compounds |                                                                 |                                                                 |                         |                                                                                                                                                                                    |                                                                                    |                                                                                           |                                                                                                                                   |                |
|---------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------|
| CAS Number          | Chemical Name/Color Index Name                                  | Restriction /Maximum Limit on Final Product or Tested Component | Country                 | Regulation                                                                                                                                                                         | Test Method                                                                        | Other Countries, U.S. States that also Regulate this Substance                            | Comments                                                                                                                          | GAFTI Comments |
| 56573-85-4          | Tributyltin (TBT)                                               | Prohibited                                                      | Canada                  | Prohibition of Certain Substances Regulation, 2012 (SOR/2012-285)                                                                                                                  | Taiwan test method: NIEA T504.30B<br>DIN ISO/TS 16179: 2012-08                     | Japan, South Korea (KC Mark, for more information review Appendix II), Taiwan, and Turkey | South Korea also regulates TBT for baby clothing (less than 24 months), for bedclothes, and products that come into skin contact. |                |
| 668-34-8            | Triphenyltin (TPhT)                                             | 0.1 percent by weight of tin                                    | European Union          | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII                                                                                                                      | Recommended test method EN ISO 17353 (modified)/ EN ISO/TS 16179:2012 for footwear | Taiwan, Japan, and Turkey                                                                 |                                                                                                                                   |                |
| Various             | All tri-substituted organotin compounds including TBT and TPhT) | 0.1% by weight of tin                                           | European Union          | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII                                                                                                                      | Recommended test method EN ISO 17353 (modified)/ EN ISO/TS 16179:2012 for footwear |                                                                                           |                                                                                                                                   |                |
| 1002-53-5           | Dibutyltin (DBT)                                                | South Korean: 1 mg/kg<br>EU: 0.1% by weight of tin              | South Korea, and the EU | Self Regulatory Confirmation Notice (Notice No. 2007-34) issued by Korean Agency for Technology and Standards<br><br>European Union REACH Regulation (EC) No. 1907/2006 Annex XVII | KS K 0737<br>DIN ISO/TS 16179: 2012-08                                             | Turkey                                                                                    | South Korea: Applies to baby clothing only (less than 36 months).                                                                 |                |
| 15231-44-4          | Diocetyltn (DOT)                                                | 0.1% by weight of tin                                           | EU                      | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII                                                                                                                      | KS K 0737<br>DIN ISO/TS 16179: 2012-08                                             | Turkey                                                                                    | EU requirement applicable to some specific products, such as textiles with direct skin contact, childcare articles, etc.          |                |

| Pesticides                         |                                                                                                                                                     |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CAS Number                         | Chemical Name/Color Index Name                                                                                                                      | Restriction /Maximum Limit on Final Product or Tested Component | Country                         | Regulation                                                                                                                                                                                                                                | Test Method                                                                          | Other Countries, U.S. States that also Regulate this Substance | Comments                                                                                                                                 | GAFTI Comments |
| 93-72-1                            | 2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds                                                                                  | Not Detected                                                    | Switzerland, EU                 | European Union POPs Regulation (EC) No. 850/2004 Annex I<br><br>Switzerland: ChemRRV (Chemikalien-Risikoreduktions-Verordnung) Art. 3 Appendix 1.1                                                                                        | U.S. EPA Method 8081A/ 8151A - (industry practice - not specified by the regulation) | Japan, South Korea                                             | For Dieldrin, PCP, and TeCP, South Korea restrictions apply at different levels for underwear, baby clothing (<24 months) and bedclothes |                |
| 93-76-5                            | 2,4,5-trichlorophenoxyacetic acid, its salts and compounds                                                                                          |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 309-00-2                           | Aldrin (Switzerland and EU POPs)                                                                                                                    |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 57-74-9                            | Chlordane (Switzerland and EU POPs)                                                                                                                 |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 72-54-8                            | Dichloro-diphenyl-dichloro ethane (DDD)                                                                                                             |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 72-55-9                            | Dichloro-diphenyl-dichloro ethylene (DDE)                                                                                                           |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 50-29-3                            | Dichloro-diphenyl-trichloro ethane (DDT) (both Switzerland)                                                                                         |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 60-57-1                            | Dieldrin                                                                                                                                            |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 72-20-8                            | Endrine                                                                                                                                             |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 76-44-8                            | Heptachlorine (Switzerland and EU POPs)                                                                                                             |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 1024-57-3                          | Epoxy-heptachlorine                                                                                                                                 |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 115-29-7<br>959-98-8<br>33213-65-9 | Endosulfan and its isomers                                                                                                                          | Prohibited                                                      | EU                              | European Union POPs Regulation (EC) No. 850/2004 Annex I                                                                                                                                                                                  |                                                                                      |                                                                |                                                                                                                                          |                |
| 36355-01-8                         | Hexabromobiphenyl                                                                                                                                   |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 608-93-5                           | Pentachlorobenzene                                                                                                                                  | 10 ppm                                                          | Switzerland                     | Switzerland: ORRChem textiles annex 1.1 (Art.3)                                                                                                                                                                                           | ISO 18219: 2015                                                                      |                                                                |                                                                                                                                          |                |
| 608-90-2                           | Pentabromobenzene                                                                                                                                   | Prohibited                                                      | EU                              | European Union POPs Regulation (EC) No. 850/2004 Annex I                                                                                                                                                                                  |                                                                                      |                                                                |                                                                                                                                          |                |
| 63405-99-2                         | 4,6-Dichloro-7 (2,4,5-trichloro-phenoxy) 0-2-trifluoro methyl benz-imidazole (DTTB)                                                                 | ≤ 30 ppm                                                        | Japan                           | Japan Law for the Control of Household Products                                                                                                                                                                                           |                                                                                      |                                                                | Textile Products Only                                                                                                                    |                |
| 118-74-1                           | Hexachlorobenzene (Switzerland and EU POPs)                                                                                                         | Prohibited                                                      | Canada, Switzerland, and the EU | Canada: Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285)<br><br>Switzerland: ChemRRV (Chemikalien-Risikoreduktions-Verordnung) Art. 3 Appendix 1.1<br><br>European Union POPs Regulation (EC) No. 850/2004 Annex I |                                                                                      |                                                                |                                                                                                                                          |                |
| 608-73-1                           | Hexachlorocyclohexane (HCH, all isomers) except gamma-hexachlorocyclohexane (except linane [58-89-9] in medical products) (Switzerland and EU POPs) |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 465-73-6                           | Isodrin                                                                                                                                             |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 4234-79-1                          | Kelevane                                                                                                                                            |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 143-50-0                           | Kepone (Chlordecone) (Switzerland and EU POPs)                                                                                                      |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |
| 72-43-5                            | Methoxychlor                                                                                                                                        |                                                                 |                                 |                                                                                                                                                                                                                                           |                                                                                      |                                                                |                                                                                                                                          |                |

|                                        |                                                                                    |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
|----------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--|
| 2385-85-5                              | Mirex (Switzerland and EU POPs)                                                    | Prohibited                                                         | Canada, Switzerland, and the EU | Canada: Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285)<br><br>Switzerland: ChemRRV (Chemikalien-Risikoreduktions-Verordnung) Art. 3 Appendix 1.1<br><br>European Union POPs Regulation (EC) No. 850/2004 Annex I |                              |                                                                                                                    |                                                                                                                                    |  |
| 72-56-0                                | Perthane                                                                           |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| 82-68-8                                | Quintozene                                                                         |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| 8001-50-1                              | Strobane                                                                           |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| 297-78-9                               | Telodrin                                                                           |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| 8001-35-2                              | Toxaphene (Switzerland and EU POPs)                                                |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| 1336-36-3<br>53469-21-9<br>and Various | Halogenated biphenyls, including Polychlorinated biphenyl (PCB) (both Switzerland) |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| Various                                | Halogenated terphenols, including Polychlorinated terphenyl (PCT)                  |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| Various                                | Halogenated naphthalenes                                                           |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| Various                                | Halogenated diarylalkanes                                                          |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| Various                                | Halogenated diphenyl methanes                                                      |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| 99688-47-8                             | Monomethyl-dibromo-diphenyl methane                                                |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| 81161-70-8                             | Monomethyl-dichloro-diphenyl methane                                               |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| 76253-60-6                             | Monomethyl-tetrachloro-diphenyl methane                                            |                                                                    |                                 |                                                                                                                                                                                                                                           |                              |                                                                                                                    |                                                                                                                                    |  |
| 87-86-5                                | Pentachlorophenol (PCP), its salts and compounds                                   | Not used (textiles and leather)<br>≤ 5mg/kg (wood based materials) | Switzerland                     | Switzerland: ChemRRV (Chemikalien-Risikoreduktions-Verordnung) Art. 3 Appendix 1.1 and Appendice 2.17                                                                                                                                     |                              | Spain, Egypt, Denmark, Germany, the Netherlands, Austria, Norway, and South Korea, banned in GB 25036 and GB 25038 |                                                                                                                                    |  |
| 25167-83-3<br>935-95-5                 | Tetrachlorophenol (TeCP), its salts and compounds 2,3,5,6-TeCP                     | Not detected (0.5 mg/kg)                                           | China                           | GB 25036/ GB 25038                                                                                                                                                                                                                        | GB/T 18414.1 or GB/T 18414.2 | Switzerland                                                                                                        | 2,3,5,6-TeCP is banned in China GB 25036 and GB 25038 for textile and synthetic leather materials. limit: Not detected (0.5 mg/kg) |  |
| 624-49-7                               | Dimethyl Fumarate                                                                  | Prohibited                                                         | EU                              | European Union REACH regulation (EC) No. 1907/2006 Annex XVII, limit 0.1 mg/kg                                                                                                                                                            | CNS 15331 Annex C            | South Korea (KC Mark, for more information review Appendix II), Norway, and Taiwan                                 | 0.1 mg/kg - China (GB 30585-2014) will apply on 1 Jan 2016)                                                                        |  |

| Phthalates               |                                                                                 |                                                                                                                                 |                                        |                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                      |                |
|--------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CAS Number               | Chemical Name/Color Index Name                                                  | Restriction /Maximum Limit on Final Product or Tested Component                                                                 | Country                                | Regulation                                                                                                                                                                                                                                                                                                                                             | Test Method                                                                      | Other Countries, U.S. States that also Regulate this Substance                                                                                                                                                                                                                            | Comments                                                                                                                                                                                                                                                             | GAFTI Comments |
|                          | Phthalates (Except those listed below, DEHP, DNOP, BBP, DBP, DINP, DIDP)        | 0.05% by weight                                                                                                                 | Denmark                                | Denmark Statutory Order 855 of 05/09/2009                                                                                                                                                                                                                                                                                                              |                                                                                  |                                                                                                                                                                                                                                                                                           | Applies to childcare articles for children 0-3 years old.                                                                                                                                                                                                            |                |
| 117-81-7                 | Di (2-ethylhexyl) phthalate (DEHP)                                              | U.S. and Canada each phthalates 0.1% by weight<br><br>For E.U DEHP+DBP+BBP 0.1% by weight<br><br>DINP+DIDP+DNOP: 0.1% by weight | South Korea, U.S., Denmark, and the EU | Self Regulatory Confirmation Notice (Notice No. 2007-34) issued by Korean Agency for Technology and Standards. U.S. Consumer Product Safety Improvement Act (PL 110-787). Schedule 1 of the Canadian Hazardous Products Act (Phthalates regulation SOR/ 2010-298) European Union REACH Regulation (EC) no. 1907/2006 Candidate List for DEHP, BBP, DBP | CPSC-CH- C1001-09.3 or GB/T 22048-2008<br><br>Test method for EU: ISO14389: 2014 | European Union (European Union REACH Regulation No. 1907/2006 Annex XVII), California (AB1108), Denmark (Statutory Order 786), South Korea (KC Mark, for more information review Appendix II), Egypt, Turkey, and Denmark<br><br>DEHP, BBP, DBP are listed on the EU REACH Candidate List | In South Korea, applies to baby clothing (less than 24 months)                                                                                                                                                                                                       |                |
| 85-68-7                  | Benzyl Butyl phthalate (BBP)                                                    |                                                                                                                                 |                                        |                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                                                                                                                                                                                                                           | In the U.S., DEHP, DBP and BBP are restricted in child care articles (3 years and under) that facilitate sleep or feeding<br><br>Unclear which footwear and apparel articles are covered                                                                             |                |
| 84-74-2                  | Di-n-butyl phthalate (DBP)                                                      |                                                                                                                                 |                                        |                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                                                                                                                                                                                                                           | Examples: Child bibs, infant sleeping bag<br><br>DEHP, BBP, and DBP are listed under REACH Annex XIV with sunset dates in February 2015                                                                                                                              |                |
| 117-84-0                 | Di-n-octyl phthalate (DNOP)                                                     |                                                                                                                                 |                                        |                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                                                                                                                                                                                                                           | Washington – Children's Safe Products Act Part 1 (RCW 70.240.020) restricts the six phthalates. The sum of DEHP, BBP, DBP, DINP, DIDP, and DnOP must not exceed 1000 ppm                                                                                             |                |
| 68515-48-0<br>28553-12-0 | Di-isononyl phthalate (DINP)                                                    |                                                                                                                                 |                                        |                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                                                                                                                                                                                                                           | In the US, DINP, and in the EU DINP, DnOP, and DIDP are restricted in toys and child care articles that can be placed in the mouth China - GB 30585-2014 regulate Infant's footwear (0-36 months, footwear ≤170mm): DEHP, DBP, BBP, DINP, DIDP, DNOP: 0.1% by weight |                |
| 68515-49-1<br>26761-40-0 | Di-isodecyl phthalate (DIDP)                                                    |                                                                                                                                 |                                        |                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                                                                                                                                                                                                                           | Children's footwear (36 months – 14 years, footwear: >170mm, but ≤ 250mm): DEHP, DBP, BBP: 0.1% By weight<br><br>US CPSC prohibits DEHP, DBP, BBP, DINP, DIBP, DPENP, DHEXP, DCHP in children's toys and child care articles (16                                     |                |
| 131-11-3                 | Dimethyl phthalate (DMP)                                                        | 0.1% (sum) by weight                                                                                                            | Taiwan                                 | CNS 15503 (children's products)                                                                                                                                                                                                                                                                                                                        | CNS 15138                                                                        |                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                      |                |
| 84-66-2                  | Diethyl phthalate (DEP)                                                         |                                                                                                                                 |                                        |                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                      |                |
| 84-69-5                  | Diisobutyl phthalate (DIBP)                                                     |                                                                                                                                 |                                        |                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                      |                |
| 68515-42-4               | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) |                                                                                                                                 |                                        |                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                      |                |

|                          |                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                          |                |                                                                   |                                                          |  |  |  |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------|----------------------------------------------------------|--|--|--|
| 71888-89-6               | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)                                                                                                     | 0.1% w/w per article (each) 1 000 mg/kg (individually or in combination with other phthalates in this entry or in other entries of Annex XVII that are classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 in any of the hazard classes carcinogenicity, germ cell mutagenicity or reproductive toxicity, category 1A or 1B | European Union | European Union REACH Regulation (EC) no. 1907/2006 Candidate List | CPSC-CH- C1001-09.3 or GB/T 22048-2008 or ISO14389: 2014 |  |  |  |
| 117-82-8                 | Bis(2-methoxyethyl) phthalate (DMEP)                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                          |                |                                                                   |                                                          |  |  |  |
| 605-50-5                 | Diisopentylphthalate (DIPP)                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                          |                |                                                                   |                                                          |  |  |  |
| 776297-69-9              | N-pentyl-isopentyl phthalate (NPIPP)                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                          |                |                                                                   |                                                          |  |  |  |
| 84777-06-0               | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)                                                                                                          |                                                                                                                                                                                                                                                                                                                                          |                |                                                                   |                                                          |  |  |  |
| 84-75-3                  | Di-n-hexyl phthalate (DnHP/DHP)                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                          |                |                                                                   |                                                          |  |  |  |
| 131-18-0                 | Dipentyl phthalate                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                          |                |                                                                   |                                                          |  |  |  |
| 68515-50-4               | 1,2- Benzenedicarboxylic acid. Dihexyl ester. Branched and linear                                                                                                               |                                                                                                                                                                                                                                                                                                                                          |                |                                                                   |                                                          |  |  |  |
| 68515-51-5<br>68648-93-1 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5) |                                                                                                                                                                                                                                                                                                                                          |                |                                                                   |                                                          |  |  |  |

| Solvents   |                                                 |                                                                 |                             |                                                                                                                                                                             |                                                                                |                                                                                                                                                                                                                                                                                                                              |          |                |
|------------|-------------------------------------------------|-----------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|
| CAS Number | Chemical Name/Color Index Name                  | Restriction /Maximum Limit on Final Product or Tested Component | Country                     | Regulation                                                                                                                                                                  | Test Method                                                                    | Other Countries, U.S. States that also Regulate this Substance                                                                                                                                                                                                                                                               | Comments | GAFTI Comments |
| 127-19-5   | N,N-dimethylacetamide (DMAC)                    | 3 000 mg/kg                                                     | EU                          | Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006                                                                                                           | CEN ISO/TS 16189                                                               |                                                                                                                                                                                                                                                                                                                              |          |                |
| 68-12-2    | N,N-dimethylformamide; dimethyl formamide (DMF) | 3 000 mg/kg                                                     | EU                          |                                                                                                                                                                             |                                                                                |                                                                                                                                                                                                                                                                                                                              |          |                |
| 87-68-3    | Hexachlorobutadiene                             | 100 ppm                                                         | EU, Switzerland, and Canada | EU: POP regulation 850/2004 ANNEX I<br>Switzerland: ORRchem annex 1.1 (art.3)<br>Canada Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285)             |                                                                                |                                                                                                                                                                                                                                                                                                                              |          |                |
| 56-23-5    | Carbon Tetrachloride                            | 0.1% (mass)- Each                                               | Switzerland, EU, and Japan  | Germany - Chemikalienverbot<br>Verordnung (Prohibition of Chemicals Ordinance), section 16<br>Japan Law for the Control of Household Products Containing Harmful Substances | Headspace for components (industry practice - not specified by the regulation) | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII (Restriction applies to substances and mixtures) only for Pentachloroethane, 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, Chloroform, 1,1,2-Trichloroethane, 1,1-Dichloroethylene, and Trichloroethylene Regulation (EC) No. 1005/2009<br><br>Denmark |          |                |
| 71-55-6    | 1,1,1-Trichloroethane                           |                                                                 |                             |                                                                                                                                                                             |                                                                                |                                                                                                                                                                                                                                                                                                                              |          |                |
| 76-01-7    | Pentachloroethane                               | 0.1% (mass)- Each                                               | EU and Japan                | Germany - Chemikalienverbot<br>Verordnung (Prohibition of Chemicals Ordinance), section 16<br>Japan Law for the Control of Household Products Containing Harmful Substances | Headspace for components (industry practice - not specified by the regulation) | European Union REACH Regulation (EC) No. 1907/2006 Annex XVII (Restriction applies to substances and mixtures) only for Pentachloroethane, 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, Chloroform, 1,1,2-Trichloroethane, 1,1-Dichloroethylene, and Trichloroethylene Regulation (EC) No. 1005/2009<br><br>Denmark |          |                |
| 630-20-6   | 1,1,1,2-Tetrachloroethane                       |                                                                 |                             |                                                                                                                                                                             |                                                                                |                                                                                                                                                                                                                                                                                                                              |          |                |
| 79-34-5    | 1,1,2,2-Tetrachloroethane                       |                                                                 |                             |                                                                                                                                                                             |                                                                                |                                                                                                                                                                                                                                                                                                                              |          |                |
| 67-66-3    | Chloroform                                      |                                                                 |                             |                                                                                                                                                                             |                                                                                |                                                                                                                                                                                                                                                                                                                              |          |                |
| 79-00-5    | 1,1,2-Trichloroethane                           |                                                                 |                             |                                                                                                                                                                             |                                                                                |                                                                                                                                                                                                                                                                                                                              |          |                |
| 75-35-4    | 1,1-Dichloroethylene                            |                                                                 |                             |                                                                                                                                                                             |                                                                                |                                                                                                                                                                                                                                                                                                                              |          |                |
| 79-01-6    | Trichloroethylene                               |                                                                 |                             |                                                                                                                                                                             |                                                                                |                                                                                                                                                                                                                                                                                                                              |          |                |
| 127-18-4   | Tetrachloroethylene (Japan only)                |                                                                 |                             |                                                                                                                                                                             |                                                                                |                                                                                                                                                                                                                                                                                                                              |          |                |

|         |                   |                      |       |                                           |                     |  |                                                                                                                                                                                                                                                                                      |  |
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| 76-01-7 | Pentachloroethane |                      |       |                                           |                     |  |                                                                                                                                                                                                                                                                                      |  |
|         | Volatile organics | ≤20 g/m <sup>2</sup> | China | GB 21550-2008<br>(PVC artificial leather) | GB 21550 Clause 5.5 |  | <p>For GB 21550, it is not banned for chlorinated solvents, but all Volatile Organic, by measuring the weight difference of a PVC leather in an oven at 100°C for 6 hours</p> <p>This regulation applies to all textiles and footwear products containing PVC artificial leather</p> |  |

## **Glossary of Terms/Acronyms related to the AAFA RSL list**

BS - British Standard

CAS - Chemical Abstracts Service. CAS Registry Numbers (often referred to as CAS RNs or CAS Numbers) are unique identifiers for chemical substances. CAS is a division of the American Chemical Society. See [www.cas.org](http://www.cas.org).

CEN - European Committee for Standardization

CPSC - Consumer Product Safety Commission. Main U.S. government agency responsible for product safety and for enforcement of CPSIA

CPSIA - Consumer Product Safety Improvement Act

Detection limit - the lowest quantity of a substance that can be distinguished from the absence of that substance (a blank value) within a stated confidence limit

DIN - German Standards Institute (Deutsches Institut für Normung)

Dioxins and Furans - Chemical compounds that are a by-product in the manufacture of herbicides, disinfectants, and other agents

EEC - European Economic Community

EN - European Standard

EPA - Environmental Protection Agency (U.S.)

EU - European Union

GB - Guo Biao in Chinese which means National Standards

GC/MS - Gas Chromatography/Mass Spectrometer - instrument used to identify components of mixtures or unknown substances - liquids, gases

ISO - International Organization for Standardization

JIS - Japanese Industrial Standard

KOH - Potassium Hydroxide

LFGB - Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch – German Law Book on food, consumer article and feed

LC/MS - Liquid Chromatography/Mass Spectrometer - instrument used to identify components of mixtures or unknown substances - liquids, gases.

mg/L - milligram per liter

mg/kg - milligram per kilogram

MSDS Information - Material Safety Data Sheet Information – this is chemical safety & toxicological information supplied with chemicals

NaOH - Sodium Hydroxide

Percent by Mass - also called weight percent or percent by weight, this is the mass of the solute divided by the total mass of the solution and multiplied by 100% (also see ppm)

PPM - Parts Per Million. A unit describing concentrations of chemical substances. 1 ppm can also be notated as 1 milligram per kilogram (mg/kg) or 1 microgram per gram (µg/g).

PPB - Parts per Billion. A unit describing concentrations of chemical substances. 1 ppb can also be notated as 1 microgram per kilogram (µg/kg).

REACH - Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals. It entered into force on 1st June 2007. It streamlines and improves the former legislative framework on chemicals of the European Union (EU).

Solvent - A substance in which another substance is dissolved, forming a solution.

Test method - A definitive procedure that produces a test result.

UK - United Kingdom

| Appendix I |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Reporting: Appendix I lists regulations which have a reporting requirement that are not necessarily otherwise listed in the RSL. |         |                                              |                                      |                                            |                |
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| CAS Number | Chemical Name/Color Index Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Restriction / Maximum Limit Triggering Reporting in Article                                                                      | Country | Regulation                                   | Test Method [detection limit] if any | Other Countries/States Which Also Regulate | GAFTI Comments |
| 121-14-2*  | 2,4-Dinitrotoluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | over 0.1%                                                                                                                        | EU      | REACH SVHC (Substances of Very High Concern) |                                      | Washington (E.U)                           |                |
| 101-77-9*  | 4,4'- Diaminodiphenylmethane (MDA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                  |         |                                              |                                      |                                            |                |
| 81-15-2*   | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                  |         |                                              |                                      |                                            |                |
| 79-06-1    | Acrylamide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                  |         |                                              |                                      |                                            |                |
| 85535-84-8 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                  |         |                                              |                                      |                                            |                |
| NA         | Aluminosilicate Refractory Ceramic Fibres Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight |                                                                                                                                  |         |                                              |                                      |                                            |                |
| 7789-09-5* | Ammonium dichromate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | over 0.1%                                                                                                                        | EU      | REACH SVHC (Substances of Very               |                                      |                                            |                |
| 120-12-7   | Anthracene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                  |         |                                              |                                      |                                            |                |
| 90640-80-5 | Anthracene oil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                  |         |                                              |                                      |                                            |                |
| 90640-81-6 | Anthracene oil, anthracene paste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                  |         |                                              |                                      |                                            |                |
| 91995-15-2 | Anthracene oil, anthracene paste, anthracene fraction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                  |         |                                              |                                      |                                            |                |
| 91995-17-4 | Anthracene oil, anthracene paste, distn. Lights                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                  |         |                                              |                                      |                                            |                |

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| 90640-82-7                                                                 | Anthracene oil, anthracene-low                                                 |           |    | High Concern)                                      |  |                   |  |
| 85-68-7*                                                                   | Benzyl butyl phthalate (BBP)                                                   | over 0.1% | EU | REACH SVHC<br>(Substances of Very                  |  | Washington (U.S.) |  |
| 117-81-7*                                                                  | Bis (2-ethylhexyl)phthalate (DEHP)                                             |           |    |                                                    |  |                   |  |
| 56-35-9                                                                    | Bis(tributyltin)oxide (TBTO)                                                   | over 0.1% | EU | REACH SVHC<br>(Substances of Very<br>High Concern) |  |                   |  |
| 10043-35-3 / 11113-50-1                                                    | Boric acid                                                                     |           |    |                                                    |  |                   |  |
| 7646-79-9                                                                  | Cobalt dichloride                                                              |           |    |                                                    |  |                   |  |
| 1303-28-2*                                                                 | Diarsenic pentaoxide                                                           |           |    |                                                    |  |                   |  |
| 1327-53-3*                                                                 | Diarsenic trioxide                                                             |           |    |                                                    |  |                   |  |
| 84-74-2*                                                                   | Dibutyl phthalate (DBP)                                                        | over 0.1% | EU | REACH SVHC<br>(Substances of Very<br>High Concern) |  | Washington (US)   |  |
| 84-69-5*                                                                   | Diisobutyl phthalate                                                           | over 0.1% | EU | REACH SVHC<br>(Substances of Very<br>High Concern) |  |                   |  |
| 1303-96-4/ 1330-43-4/<br>12179-04-3                                        | Disodium tetraborate, anhydrous                                                |           |    |                                                    |  |                   |  |
| 25637-99-4*/3194-55-6*<br>(134237-50-6)* (134237-<br>51-7)* (134237-52-8)* | Hexabromocyclododecane (HBCDD)<br>and all major diastereoisomers<br>identified |           |    |                                                    |  |                   |  |
|                                                                            | Alpha-hexabromocyclododecane                                                   |           |    |                                                    |  |                   |  |
|                                                                            | Beta-hexabromocyclododecane                                                    |           |    |                                                    |  |                   |  |
|                                                                            | Gamma-hexabromocyclododecane                                                   |           |    |                                                    |  |                   |  |
| 7758-97-6*                                                                 | Lead chromate                                                                  |           |    |                                                    |  |                   |  |
| 12656-85-8*                                                                | Lead chromate molybdate sulphate<br>red (C.I. Pigment Red 104)                 |           |    |                                                    |  |                   |  |
| 7784-40-9                                                                  | Lead hydrogen arsenate                                                         |           |    |                                                    |  |                   |  |
| 1344-37-2*                                                                 | Lead sulfochromate yellow (C.I.<br>Pigment Yellow 34)                          |           |    |                                                    |  |                   |  |
| 65996-93-2                                                                 | Pitch, coal tar, high temp.                                                    |           |    |                                                    |  |                   |  |
| 7789-00-6*                                                                 | Potassium chromate                                                             |           |    |                                                    |  |                   |  |
| 7778-50-9*                                                                 | Potassium dichromate                                                           |           |    |                                                    |  |                   |  |
| 7775-11-3*                                                                 | Sodium chromate                                                                |           |    |                                                    |  |                   |  |
| 7789-12-0/ 10588-01-9*                                                     | Sodium dichromate                                                              |           |    |                                                    |  |                   |  |
| 12267-73-1                                                                 | Tetraboron disodium heptaoxide,<br>hydrate                                     |           |    |                                                    |  |                   |  |
| 79-01-6*                                                                   | Trichloroethylene                                                              |           |    |                                                    |  |                   |  |
| 15606-95-8                                                                 | Triethyl arsenate                                                              |           |    |                                                    |  |                   |  |

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| 115-96-8*                                | Tris(2-chloroethyl)phosphate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | over 0.1% | EU | REACH SVHC<br>(Substances of Very High Concern) |  | Washington (US) |  |
| Extracted from Index<br>no. 650-017-00-8 | Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight | over 0.1% | EU | REACH SVHC<br>(Substances of Very High Concern) |  |                 |  |
| 110-80-5*                                | 2-Ethoxyethanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | over 0.1% | EU | REACH SVHC<br>(Substances of Very High Concern) |  | Washington (US) |  |
| 109-86-4*                                | 2-Methoxyethanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |    |                                                 |  |                 |  |
| 7738-94-5*<br>13530-68-2*                | Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |    |                                                 |  |                 |  |
| 1333-82-0*                               | Chromium trioxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |    |                                                 |  |                 |  |
| 513-79-1                                 | Cobalt(II) carbonate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |    |                                                 |  |                 |  |
| 71-48-7                                  | Cobalt(II) diacetate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |    |                                                 |  |                 |  |
| 10141-05-6                               | Cobalt(II) dinitrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |    |                                                 |  |                 |  |
| 10124-43-3                               | Cobalt(II) sulphate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |    |                                                 |  |                 |  |
| 71888-89-6                               | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |    |                                                 |  |                 |  |
| 96-18-4                                  | 1,2,3-Trichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |    |                                                 |  |                 |  |

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| 872-50-4                        | 1-Methyl-2-pyrrolidone                                                                                                                                                                                                                                                                            | over 0.1% | EU | REACH SVHC<br>(Substances of Very High Concern) |  |  |  |
| 302-01-2 / 7803-57-8            | Hydrazine                                                                                                                                                                                                                                                                                         |           |    |                                                 |  |  |  |
| 68515-42-4                      | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters                                                                                                                                                                                                                           |           |    |                                                 |  |  |  |
| 7789-06-2                       | Strontium chromate                                                                                                                                                                                                                                                                                |           |    |                                                 |  |  |  |
| 111-15-9                        | 2-Ethoxyethyl acetate                                                                                                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| 1163-19-5                       | Bis(pentabromophenyl) ether (deca-BDE)                                                                                                                                                                                                                                                            |           |    |                                                 |  |  |  |
| 72629-94-8                      | Pentacosafuorotridecanoic acid                                                                                                                                                                                                                                                                    |           |    |                                                 |  |  |  |
| 2058-94-8                       | Henicosafuoroundecanoic acid                                                                                                                                                                                                                                                                      |           |    |                                                 |  |  |  |
| 307-55-1                        | Tricosafuorododecanoic acid                                                                                                                                                                                                                                                                       |           |    |                                                 |  |  |  |
| 376-06-7                        | Heptacosafuorotetradecanoic acid                                                                                                                                                                                                                                                                  |           |    |                                                 |  |  |  |
| NA                              | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated – covering well defined substances and UVCB substances, polymers and homologues                                                                                                                                                                   |           |    |                                                 |  |  |  |
| NA                              | 4-nonylphenol, branched and linear – substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bonded in position 4 to phenol, covering also UVCB and well-defined substances which include any of the individual isomers or a combination thereof                |           |    |                                                 |  |  |  |
| 123-77-3                        | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))                                                                                                                                                                                                                                                 |           |    |                                                 |  |  |  |
| 85-42-7, 13149-00-3, 14166-21-3 | Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry] |           |    |                                                 |  |  |  |

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| 25550-51-019438-60-9,<br>48122-14-1, 57110-29-9 | Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4][The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry] | over 0.1% | EU | REACH SVHC<br>(Substances of Very High Concern) |  |  |  |
| 625-45-6                                        | Methoxy acetic acid                                                                                                                                                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| 84777-06-0                                      | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear                                                                                                                                                                                                                                                                                |           |    |                                                 |  |  |  |
| 605-50-5                                        | Diisopentylphthalate (DIPP)                                                                                                                                                                                                                                                                                                                     |           |    |                                                 |  |  |  |
| 776297-69-9                                     | N-pentyl-isopentylphthalate                                                                                                                                                                                                                                                                                                                     |           |    |                                                 |  |  |  |
| 629-14-1                                        | 1,2-Diethoxyethane                                                                                                                                                                                                                                                                                                                              |           |    |                                                 |  |  |  |
| 68-12-2                                         | N,N-dimethylformamide; dimethyl formamide                                                                                                                                                                                                                                                                                                       |           |    |                                                 |  |  |  |
| 683-18-1                                        | Dibutyltin dichloride (DBTC)                                                                                                                                                                                                                                                                                                                    |           |    |                                                 |  |  |  |
| 51404-69-4                                      | Acetic acid, lead salt, basic                                                                                                                                                                                                                                                                                                                   |           |    |                                                 |  |  |  |
| 1319-46-6                                       | Trilead bis(carbonate) dihydroxide                                                                                                                                                                                                                                                                                                              |           |    |                                                 |  |  |  |
| 12036-76-9                                      | Lead oxide sulfate                                                                                                                                                                                                                                                                                                                              |           |    |                                                 |  |  |  |
| 69011-06-9                                      | [Phthalato(2-)]dioxotrilead                                                                                                                                                                                                                                                                                                                     |           |    |                                                 |  |  |  |
| 12578-12-0                                      | Dioxobis(stearato)trilead                                                                                                                                                                                                                                                                                                                       |           |    |                                                 |  |  |  |
| 91031-62-8                                      | Fatty acids, C16-18, lead salts                                                                                                                                                                                                                                                                                                                 |           |    |                                                 |  |  |  |
| 13814-96-5                                      | Lead bis(tetrafluoroborate)                                                                                                                                                                                                                                                                                                                     |           |    |                                                 |  |  |  |
| 20837-86-9                                      | Lead cyanamate                                                                                                                                                                                                                                                                                                                                  |           |    |                                                 |  |  |  |
| 10099-74-8                                      | Lead dinitrate                                                                                                                                                                                                                                                                                                                                  |           |    |                                                 |  |  |  |
| 1317-36-8                                       | Lead monoxide (lead oxide)                                                                                                                                                                                                                                                                                                                      |           |    |                                                 |  |  |  |
| 1314-41-6                                       | Orange lead (lead tetroxide)                                                                                                                                                                                                                                                                                                                    |           |    |                                                 |  |  |  |
| 12060-00-3                                      | Lead titanium trioxide                                                                                                                                                                                                                                                                                                                          |           |    |                                                 |  |  |  |
| 12626-81-2                                      | Lead titanium zirconium oxide                                                                                                                                                                                                                                                                                                                   |           |    |                                                 |  |  |  |
| 12065-90-6                                      | Pentalead tetraoxide sulphate                                                                                                                                                                                                                                                                                                                   |           |    |                                                 |  |  |  |
| 8012-00-8                                       | Pyrochlore, antimony lead yellow                                                                                                                                                                                                                                                                                                                |           |    |                                                 |  |  |  |

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| 68784-75-8  | Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] | over 0.1% | EU | REACH SVHC<br>(Substances of Very High Concern) |  |  |  |
| 11120-22-2  | Silicic acid, lead salt                                                                                                                                                                                                                                                                                                                                     |           |    |                                                 |  |  |  |
| 62229-08-7  | Sulfurous acid, lead salt, dibasic                                                                                                                                                                                                                                                                                                                          |           |    |                                                 |  |  |  |
| 78-00-2     | Tetraethyllead                                                                                                                                                                                                                                                                                                                                              |           |    |                                                 |  |  |  |
| 12202-17-4  | Tetralead trioxide sulphate                                                                                                                                                                                                                                                                                                                                 |           |    |                                                 |  |  |  |
| 12141-20-7  | Trilead dioxide phosphonate                                                                                                                                                                                                                                                                                                                                 |           |    |                                                 |  |  |  |
| 110-00-9    | Furan                                                                                                                                                                                                                                                                                                                                                       |           |    |                                                 |  |  |  |
| 75-56-9     | Methyloxirane (Propylene oxide)                                                                                                                                                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| 64-67-5     | Diethyl sulphate                                                                                                                                                                                                                                                                                                                                            |           |    |                                                 |  |  |  |
| 77-78-1     | Dimethyl sulphate                                                                                                                                                                                                                                                                                                                                           |           |    |                                                 |  |  |  |
| 143860-04-2 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine                                                                                                                                                                                                                                                                                                          |           |    |                                                 |  |  |  |
| 88-85-7     | Dinoseb (6-sec-butyl-2,4-dinitrophenol)                                                                                                                                                                                                                                                                                                                     |           |    |                                                 |  |  |  |
| 838-88-0    | 4,4'-methylenedi-o-toluidine                                                                                                                                                                                                                                                                                                                                |           |    |                                                 |  |  |  |
| 101-80-4    | 4,4'-oxydianiline and its salts                                                                                                                                                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| 60-09-3     | 4-Aminoazobenzene;                                                                                                                                                                                                                                                                                                                                          |           |    |                                                 |  |  |  |
| 95-80-7     | 4-methyl-m-phenylenediamine (2,4-toluene-diamine)                                                                                                                                                                                                                                                                                                           |           |    |                                                 |  |  |  |
| 120-71-8    | 6-methoxy-m-toluidine (p-cresidine)                                                                                                                                                                                                                                                                                                                         |           |    |                                                 |  |  |  |
| 92-67-1     | Biphenyl-4-ylamine                                                                                                                                                                                                                                                                                                                                          |           |    |                                                 |  |  |  |
| 97-56-3     | o-aminoazotoluene                                                                                                                                                                                                                                                                                                                                           |           |    |                                                 |  |  |  |
| 95-53-4     | o-Toluidine;                                                                                                                                                                                                                                                                                                                                                |           |    |                                                 |  |  |  |
| 79-16-3     | N-methylacetamide                                                                                                                                                                                                                                                                                                                                           |           |    |                                                 |  |  |  |
| 106-94-5    | 1-bromopropane;<br>n-propyl bromide                                                                                                                                                                                                                                                                                                                         |           |    |                                                 |  |  |  |
| 7778-44-1   | Calcium Arsenate                                                                                                                                                                                                                                                                                                                                            |           |    |                                                 |  |  |  |
| 111-96-6    | Bis(2-methoxyethyl) ether                                                                                                                                                                                                                                                                                                                                   |           |    |                                                 |  |  |  |

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| 11103-86-9 | Potassium hydroxyoctaoxodizincate dichromate                                                                                                                                                                                         | over 0.1% | EU | REACH SVHC<br>(Substances of Very High Concern) |  |  |  |
| 6477-64-1  | Lead dipicrate                                                                                                                                                                                                                       |           |    |                                                 |  |  |  |
| 127-19-5   | N,N Dimethylacetamide (DMAC)                                                                                                                                                                                                         |           |    |                                                 |  |  |  |
| 7778-39-4  | Arsenic acid                                                                                                                                                                                                                         |           |    |                                                 |  |  |  |
| 90-04-0    | 2-methoxyaniline; o-anisidine                                                                                                                                                                                                        |           |    |                                                 |  |  |  |
| 3687-31-8  | Trilead diarsenate                                                                                                                                                                                                                   |           |    |                                                 |  |  |  |
| 107-06-2   | 1,2 Dichloroethane                                                                                                                                                                                                                   |           |    |                                                 |  |  |  |
| 49663-84-5 | Pentazinc chromate octahydroxide                                                                                                                                                                                                     |           |    |                                                 |  |  |  |
| 25214-70-4 | Formaldehyde, oligomeric reaction products with aniline (technical MDA)                                                                                                                                                              |           |    |                                                 |  |  |  |
| 117-82-8   | Bis(2methoxyethyl) phthalate                                                                                                                                                                                                         |           |    |                                                 |  |  |  |
| 140-66-9   | 4-(1,1,3,3, tetramethylbutyl)phenol                                                                                                                                                                                                  |           |    |                                                 |  |  |  |
| 13424-46-9 | Lead azide, Lead diazide                                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| 77-09-8    | Phenolphthalein                                                                                                                                                                                                                      |           |    |                                                 |  |  |  |
| 24613-89-6 | Dichromium tris(chromate)                                                                                                                                                                                                            |           |    |                                                 |  |  |  |
| 15245-44-0 | Lead Styphnate                                                                                                                                                                                                                       |           |    |                                                 |  |  |  |
| 101-14-4   | 2,2-dichloro-4,4,methylenedianiline                                                                                                                                                                                                  |           |    |                                                 |  |  |  |
| 112-49-2   | 1,2-bis(2methoxy-ethoxy) ethane (TEGDME; triglyme)                                                                                                                                                                                   |           |    |                                                 |  |  |  |
| 110-71-4   | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                                                                                                                                                                          |           |    |                                                 |  |  |  |
| 561-41-1   | 4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                                                                                    |           |    |                                                 |  |  |  |
| 50-32-8    | Benzo[def]chrysene (Benzo[a]pyrene)                                                                                                                                                                                                  |           |    |                                                 |  |  |  |
| 90-94-8    | 4,4'-bis(dimethylamino) benzophenone (Michler's ketone)                                                                                                                                                                              |           |    |                                                 |  |  |  |
| 2580-56-5  | [4-[[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] |           |    |                                                 |  |  |  |
| 101-61-1   | N,N,N',N'-tetramethyl-4,4'methylenedianiline (Michler's base)                                                                                                                                                                        |           |    |                                                 |  |  |  |

|            |                                                                                                                                                                                                                                                                                                                                     |           |    |                                                 |  |  |  |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----|-------------------------------------------------|--|--|--|
| 6786-83-0  | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq$ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                                                                                                                            | over 0.1% | EU | REACH SVHC<br>(Substances of Very High Concern) |  |  |  |
| 1303-86-2  | Diboron trioxide                                                                                                                                                                                                                                                                                                                    |           |    |                                                 |  |  |  |
| 75-12-7    | Formamide                                                                                                                                                                                                                                                                                                                           |           |    |                                                 |  |  |  |
| 17570-76-2 | Lead(II) bis(methanesulfonate)                                                                                                                                                                                                                                                                                                      |           |    |                                                 |  |  |  |
| 2451-62-9  | TGIC (1,3,5, tris(oxiranyl methyl)-1,3 triazine-2,4,6 (1H,3H,5H)trione)                                                                                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| 59653-74-6 | b-TGIC (1.3.5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6(1H3H,5H)trione)                                                                                                                                                                                                                                                |           |    |                                                 |  |  |  |
| 548-62-9   | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1 ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq$ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                                                                                                             |           |    |                                                 |  |  |  |
| 7440-43-9  | Cadmium                                                                                                                                                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| 3825-26-1  | Ammonium pentadecafluorooctanoate (APFO)                                                                                                                                                                                                                                                                                            |           |    |                                                 |  |  |  |
| 335-67-1   | Pentadecafluorooctanoic acid                                                                                                                                                                                                                                                                                                        |           |    |                                                 |  |  |  |
| 131-18-0   | Dipentyl phthalate (DPP)                                                                                                                                                                                                                                                                                                            |           |    |                                                 |  |  |  |
| NA         | 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] |           |    |                                                 |  |  |  |
| 1306-19-0  | Cadmium oxide                                                                                                                                                                                                                                                                                                                       |           |    |                                                 |  |  |  |
| 1306--23-6 | Cadmium sulphide                                                                                                                                                                                                                                                                                                                    |           |    |                                                 |  |  |  |
| 573-58-0   | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)                                                                                                                                                                                                                           |           |    |                                                 |  |  |  |

|                        |                                                                                                                                                                                                                                                              |           |    |                                                 |  |  |  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----|-------------------------------------------------|--|--|--|
| 1937-37-7              | Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)                                                                                                         | over 0.1% | EU | REACH SVHC<br>(Substances of Very High Concern) |  |  |  |
| 84-75-3                | Diethyl phthalate                                                                                                                                                                                                                                            |           |    |                                                 |  |  |  |
| 96-45-7                | Imidazolidine-2-thione (2-imidazoline-2-thiol)                                                                                                                                                                                                               |           |    |                                                 |  |  |  |
| 301-04-2               | Lead di(acetate)                                                                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| 25155-23-1             | Triethyl phosphate                                                                                                                                                                                                                                           |           |    |                                                 |  |  |  |
| 68515-50-4             | 1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| 10108-64-2             | Cadmium chloride                                                                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| NA                     | Sodium perborate; perboric acid, sodium salt                                                                                                                                                                                                                 |           |    |                                                 |  |  |  |
| 7632-04-4              | Sodium peroxometaborate                                                                                                                                                                                                                                      |           |    |                                                 |  |  |  |
| 15571-58-1             | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)                                                                                                                                                                       |           |    |                                                 |  |  |  |
| -                      | Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) |           |    |                                                 |  |  |  |
| 7790-79-6              | Cadmium fluoride                                                                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| 10124-36-4, 31119-53-6 | Cadmium sulphate                                                                                                                                                                                                                                             |           |    |                                                 |  |  |  |
| 3846-71-7              | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)                                                                                                                                                                                                         |           |    |                                                 |  |  |  |
| 25973-55-1             | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)                                                                                                                                                                                                     |           |    |                                                 |  |  |  |
| 68515-51-5, 68648-93-1 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of diethyl phthalate (EC                                                                                             |           |    |                                                 |  |  |  |

|                                       |                                                                                                                                                                                                                                        |           |               |                                                 |  |  |  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|-------------------------------------------------|--|--|--|
| -                                     | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]<br>[covering any of the individual isomers of [1] and [2] or any combination thereof] | over 0.1% | EU            | REACH SVHC<br>(Substances of Very High Concern) |  |  |  |
| 1120-71-4                             | 1,3-propanesultone                                                                                                                                                                                                                     |           |               |                                                 |  |  |  |
| 3864-99-1                             | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)                                                                                                                                                                         |           |               |                                                 |  |  |  |
| 36437-37-3                            | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)                                                                                                                                                                   |           |               |                                                 |  |  |  |
| 98-95-3                               | Nitrobenzene                                                                                                                                                                                                                           |           |               |                                                 |  |  |  |
| 375-95-1;<br>21049-39-8;<br>4149-60-4 | Perfluorononan-1-oic acid<br>(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts                                                                                                         |           |               |                                                 |  |  |  |
| 50-00-0                               | Formaldehyde                                                                                                                                                                                                                           | 5 ppm     | United States | Washington Children's Safe Product Act          |  |  |  |
| 62-53-3                               | Aniline                                                                                                                                                                                                                                | 1 ppm     |               |                                                 |  |  |  |
| 62-75-9                               | N-Nitrosodimethylamine                                                                                                                                                                                                                 | 1 ppm     |               |                                                 |  |  |  |
| 71-43-2                               | Benzene                                                                                                                                                                                                                                | 1 ppm     |               |                                                 |  |  |  |
| 75-01-4                               | Vinyl chloride                                                                                                                                                                                                                         | 1 ppm     |               |                                                 |  |  |  |
| 75-07-0                               | Acetaldehyde                                                                                                                                                                                                                           | 1 ppm     |               |                                                 |  |  |  |
| 75-09-2                               | Methylene chloride                                                                                                                                                                                                                     | 1 ppm     |               |                                                 |  |  |  |
| 75-15-0                               | Carbon disulfide                                                                                                                                                                                                                       | 10 ppm    |               |                                                 |  |  |  |
| 78-93-3                               | methyl ethyl ketone                                                                                                                                                                                                                    | 1 ppm     |               |                                                 |  |  |  |
| 79-34-5                               | 1,1,2,2,-Tetrachloroethane                                                                                                                                                                                                             | 1 ppm     |               |                                                 |  |  |  |
| 79-94-7                               | Tetrabromobisphenol A                                                                                                                                                                                                                  | 20 ppm    |               |                                                 |  |  |  |
| 80-05-7                               | Bisphenol A                                                                                                                                                                                                                            | 20 ppm    |               |                                                 |  |  |  |
| 84-66-2                               | Diethyl phthalate                                                                                                                                                                                                                      | 5 ppm     |               |                                                 |  |  |  |
| 84-75-3                               | Di-n-Hexyl phthalate                                                                                                                                                                                                                   | 5 ppm     |               |                                                 |  |  |  |
| 85-44-9                               | Phthalic anhydride                                                                                                                                                                                                                     | 100 ppm   |               |                                                 |  |  |  |
| 86-30-6                               | N-Nitrosodiphenylamine                                                                                                                                                                                                                 | 1 ppm     |               |                                                 |  |  |  |
| 87-68-3                               | Hexachlorobutadiene                                                                                                                                                                                                                    | 30 ppm    |               |                                                 |  |  |  |

|          |                                                                                         |         |               |                                        |  |                |  |
|----------|-----------------------------------------------------------------------------------------|---------|---------------|----------------------------------------|--|----------------|--|
| 94-13-3  | Propyl paraben                                                                          | 30 ppm  | United States | Washington Children's Safe Product Act |  | Candidate List |  |
| 94-26-8  | Butyl paraben                                                                           | 30 ppm  |               |                                        |  |                |  |
| 95-53-4  | 2-Aminotoluene                                                                          | 1 ppm   |               |                                        |  |                |  |
| 95-80-7  | 2,4-Diaminotoluene                                                                      | 10 ppm  |               |                                        |  |                |  |
| 99-76-3  | Methyl paraben                                                                          | 30 ppm  | United States | Washington Children's Safe Product Act |  |                |  |
| 99-96-7  | p-Hydroxybenzoic acid                                                                   | 10 ppm  |               |                                        |  |                |  |
| 100-41-4 | Ethylbenzene                                                                            | 1 ppm   |               |                                        |  |                |  |
| 100-42-5 | Styrene                                                                                 | 1 ppm   |               |                                        |  |                |  |
| 104-40-5 | 4-Nonylphenol: 4-NP and its isomer mixtures including CAS 84852-15-3 and CAS 25154-52-3 | 10 ppm  | United States | Washington Children's Safe Product Act |  | Candidate List |  |
| 106-47-8 | para-Chloroaniline                                                                      | 60 ppm  | United States | Washington Children's Safe Product Act |  |                |  |
| 107-13-1 | Acrylonitrile                                                                           | 1 ppm   |               |                                        |  |                |  |
| 107-21-1 | Ethylene glycol                                                                         | 5 ppm   |               |                                        |  |                |  |
| 108-88-3 | Toluene                                                                                 | 1 ppm   |               |                                        |  |                |  |
| 108-95-2 | Phenol                                                                                  | 60 ppm  |               |                                        |  |                |  |
| 117-84-0 | Di-n-octyl phthalate (DnOP)                                                             | 5 ppm   |               |                                        |  |                |  |
| 118-74-1 | Hexachlorobenzene                                                                       | 30 ppm  |               |                                        |  |                |  |
| 119-93-7 | 3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'-Dimethylbenzidine                   | 10 ppm  |               |                                        |  |                |  |
| 120-47-8 | Ethyl paraben                                                                           | 30 ppm  |               |                                        |  |                |  |
| 123-91-1 | 1,4-Dioxane                                                                             | 1 ppm   |               |                                        |  |                |  |
| 127-18-4 | Perchloroethylene                                                                       | 0.5 ppm |               |                                        |  |                |  |
| 131-55-5 | Benzophenone-2 (Bp-2): 2,2',4,4'-Tetrahydroxybenzophenone                               | 20 ppm  |               |                                        |  |                |  |
| 140-66-9 | 4-tert-Octylphenol; 1,1,2,2-Tetramethyl-4-butylphenol                                   | 10 ppm  | United States | Washington Children's Safe Product Act |  | Candidate List |  |
| 140-67-0 | Estragole                                                                               | 10 ppm  | United States | Washington Children's Safe Product Act |  |                |  |
| 149-57-5 | 2-Ethylhexanoic acid                                                                    | 1 ppm   |               |                                        |  |                |  |
| 556-67-2 | Octamethylcyclotetrasiloxane                                                            | 10 ppm  |               |                                        |  |                |  |
| 608-93-5 | Benzene, pentachloro                                                                    | 1 ppm   |               |                                        |  |                |  |
| 842-07-9 | C.I. solvent yellow 14                                                                  | 1 ppm   |               |                                        |  |                |  |
| 872-50-4 | N-Methylpyrrolidone                                                                     | 50 ppm  |               |                                        |  |                |  |

|            |                                                                                                 |         |               |                                        |  |                |  |
|------------|-------------------------------------------------------------------------------------------------|---------|---------------|----------------------------------------|--|----------------|--|
| 1163-19-5  | 2,2',3,3',4,4',5,5',6,6' Decabromodiphenyl ether; BDE-209                                       | 10 ppm  | United States | Washington Children's Safe Product Act |  | Candidate List |  |
| 1763-23-1  | Perfluorooctanyl sulphonic acid and its salts; PFOS                                             | 1 ppm   | United States | Washington Children's Safe Product Act |  |                |  |
| 1806-26-4  | Phenol, 4-octyl-                                                                                | 10 ppm  |               |                                        |  |                |  |
| 5466-77-3  | 2-Ethyl-hexyl-4-methoxycinnamate                                                                | 5 ppm   |               |                                        |  |                |  |
| 7439-97-6  | Mercury & mercury compounds including methyl mercury (22967-92-6)                               | 0.5 ppm |               |                                        |  |                |  |
| 7439-98-7  | Molybdenum & molybdenum compounds                                                               | 1 ppm   |               |                                        |  |                |  |
| 7440-36-0  | Antimony & Antimony compounds                                                                   | 1 ppm   |               |                                        |  |                |  |
| 7440-38-2  | Arsenic & Arsenic compounds including arsenic trioxide (1327-53-3) & dimethyl arsenic (75-60-5) | 1 ppm   |               |                                        |  |                |  |
| 7440-43-9  | Cadmium & cadmium compounds                                                                     | 1 ppm   | United States | Washington Children's Safe Product Act |  | Candidate List |  |
| 7440-48-4  | cobalt & cobalt compounds                                                                       | 1 ppm   | United States | Washington Children's Safe Product Act |  |                |  |
| 25013-16-5 | Butylated hydroxyanisole, BHA                                                                   | 10 ppm  |               |                                        |  |                |  |
| 25637-99-4 | Hexabromocyclododecane                                                                          | 10 ppm  | United States | Washington Children's Safe Product Act |  | Candidate List |  |
| 26761-40-0 | Diisodecyl phthalate (DIDP)                                                                     | 50 ppm  | United States | Washington Children's Safe Product Act |  |                |  |
| 28553-12-0 | Diisononyl phthalate (DINP)                                                                     | 50 ppm  |               |                                        |  |                |  |
| 13674-87-8 | tris(1,3-dichloro-2-propyl)phosphate                                                            | 50ppm   |               |                                        |  |                |  |

| Appendix II              | Labelling: Appendix II lists regulations which have a labeling requirement that are not necessarily otherwise listed in the RSL. |                                                                                            |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------|-----------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CAS Number               | Chemical Name/Color Index Name                                                                                                   | Restriction / Maximum Limit Triggering Labeling in Component                               | Country         | Regulation                        | Test Method [detection limit] if any | Comment                                                                                                                                                                                                                                                                                                                                                                       | GAFTI Comments |
| 50-00-0                  | Formaldehyde (0 - 36 months)                                                                                                     | 20 ppm                                                                                     | Korea           | Safety Quality Mark Act (KC Mark) |                                      | Age range off children's products in KC mark has been revised to: 3-14 years old<br>Formaldehyde for children products (3-14 years): 75 mg/kg<br>Innerwear and midwear (other than infant and children product): 75 mg/kg;<br>outerwear (other than infant and children products): 300 mg/kg<br>TBT for KC Mark infant product (0-36 months): 0.5 mg/kg;<br>Others: 1.0 mg/kg |                |
|                          | Formaldehyde (3 - 12 years)                                                                                                      | 75 ppm (innerwear), 300 ppm (outerwear); All Childrens' products: Max 75 ppm               |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
|                          | Azo Dyes                                                                                                                         | 30 ppm                                                                                     |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
| 56573-85-4               | Tributyltin (TBT)                                                                                                                | 0.5ppm for infant's<br>1.0 ppm for Children's                                              |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
| 1002-53-5                | Dibutyltin (DBT) (0 - 36 months)                                                                                                 | 1 ppm                                                                                      |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
| 624-49-7                 | Dimethyl Fumarate                                                                                                                | 0.1 ppm                                                                                    |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
| 117-84-0                 | Di-n-octyl phthalate (DNOP)                                                                                                      | 0.10%                                                                                      | Korea           | Safety Quality Mark Act (KC Mark) |                                      | Phthalates requirement in KC Mark:<br><br>Baby products (0-36 months):<br>0.1% (sum of DEHP, DBP, BBP, DIDP, DINP, DNOP)<br><br>Children product (3-14 years):<br>0.1% (sum of DEHP, DBP, BBP)                                                                                                                                                                                |                |
| 117-81-7                 | Di (2-ethylhexyl) phthalate (DEHP)                                                                                               |                                                                                            |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
| 85-68-7                  | Benzyl Butyl phthalate (BBP)                                                                                                     |                                                                                            |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
| 84-74-2                  | Di-n-butyl phthalate (DBP)                                                                                                       |                                                                                            |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
| 68515-48-0<br>28553-12-0 | Di-isononyl phthalate (DINP)                                                                                                     |                                                                                            |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
| 68515-49-1<br>26761-40-0 | Di-isodecyl phthalate (DIDP)                                                                                                     |                                                                                            |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
| 32534-81-9               | Penta-bromodiphenyl ether (pentaBDE) (0 - 12 years)                                                                              |                                                                                            |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
| 32536-52-0               | Octa-bromodiphenyl ether (octaBDE) (0 - 12 years)                                                                                |                                                                                            |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
| 68112-30-1               | TDBPP (0 - 12 years)                                                                                                             |                                                                                            |                 |                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                               |                |
|                          | Disperse Dyes                                                                                                                    | Not Detected Max. 50 ppm<br>Polyester, Nylon, Acrylic, Acetate, Triacetate, Vinyl chloride | Korea           | Safety Quality Mark Act (KC Mark) |                                      | Disperse dyes only applies to baby product, children children and innerwear                                                                                                                                                                                                                                                                                                   |                |
| 7439-92-1                | Lead (Pb) ( 0 - 12 years)                                                                                                        | 40 ppm- 100ppm (lead in substrate)<br>40 ppm- 90ppm (lead in coating)                      | Illinois, U.S.A | Lead Posioning Prevention Act     |                                      | Toys with paints, child care articles, children's jewelerv                                                                                                                                                                                                                                                                                                                    |                |

|  |                            |         |       |                                |  |  |  |
|--|----------------------------|---------|-------|--------------------------------|--|--|--|
|  | Lead (Pb) (above 16 years) | 600 ppm |       |                                |  |  |  |
|  | NP/NPEO                    | 100ppm  | Korea | Safety Quality<br>Mark Act (KC |  |  |  |

| Change Log from RSL 18 to RSL 19 |                                                                                                                                                                                                                                            |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arylamines                       | Addition of Quinoline, Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006                                                                                                                                                   |
| Asbestos                         |                                                                                                                                                                                                                                            |
| Dioxins & Furans                 |                                                                                                                                                                                                                                            |
| Disperse Dyes                    | Addition of Basic Violet 3, 2,4-diaminoanisole sulphate, and 4-chloro-o-toluidinium chloride from Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006                                                                        |
| Flame Retardants                 | Addition of Decabromodiphenyl ether (decaBDE) from Amendment 2017/227 to Annex XVII in (EC) No 1907/2006                                                                                                                                   |
| Fluorinated Greenhouse Gases     |                                                                                                                                                                                                                                            |
| Metals                           | Update extractable Arsenic level 0.2 mg/kg, extractable Chromium level 2 mg/kg, extractable Lead level 0.2 mg/kg, extractable Mercury level 0.02 mg/kg, and extractable Cadmium level 0.1 mg/kg from ES 7322/2018, test method ISO 17072 1 |
| Misc.                            | Addition of Benzene, benzotrichloride, p-chlorobenzotrichloride, and benzyl chloride from Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006                                                                                |
| Organotin Compounds              |                                                                                                                                                                                                                                            |
| Pesticides                       |                                                                                                                                                                                                                                            |
| Phthalates                       |                                                                                                                                                                                                                                            |
| Solvents                         | Addition of N,N-dimethylacetamide (DMAC) and N,N-dimethylformamide; dimethyl formamide (DMF) from Amendment 2018/1513 to Annex XVII to Regulation (EC) No 1907/2006                                                                        |
| Appendix I: Reporting            |                                                                                                                                                                                                                                            |
| Appendix II: Labelling           |                                                                                                                                                                                                                                            |

## Disclaimer

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