

## **RSL updated per January 2023**

### **General**

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The standards described in this document are applicable on all orders at all times, valid from the time of written confirmation.

**Test methods** – Tests according to the latest published European standard (EN) and/or ISO test methods. ‘ In case there is no EN and/or ISO standard available «*not yet available*» the laboratory used by NN, the checklist for lab should be used to ensure the quality of the lab that is used by NN. In case of differing test result, the test performed by NN Group will be valid.

In case of quality dispute; 3<sup>rd</sup> party documentation will be required. 3<sup>rd</sup> party test results will not be required unless requested.

### **List of Chemical Substances**

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All suppliers to NN Group must keep record of all chemical substances used in production and all associated processes. This list shall include name of the chemical product, the purpose/area of use and a reference to a Material Safety Data Sheet (MSDS).

Suppliers can and will be asked to submit this list to CSR or an accredited auditor for inspection. The buying and product departments reserve the right to ask for additional documentation, showing the chemicals that have been used during production.

### **General Requirements for all material**

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NN sells products world wide. All suppliers to NN must be in compliance with regulations in all markets NN operate.

#### **LEGAL BACKGROUND**

##### **UN global treaties on certain hazardous chemicals such as Persistent Organic Pollutants (POPs)**

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Stockholm Convention on Persistent Organic Pollutants is an international environmental treaty, signed in 2001 and effective from May 2004, that aims to eliminate or restrict the production and use of persistent organic pollutants (POPs).

The Rotterdam Convention (formally, the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade) is a multilateral treaty to promote shared responsibilities in relation to importation of hazardous chemicals.

The Minamata Convention on Mercury is a global treaty to protect human health and the environment from the adverse effects of mercury.

##### **EU/EEA chemicals regulations**

There is a range of chemicals regulations in EU/EEA that cover requirements of articles and/or chemical products depending on to what extent certain hazardous chemicals pose possible unacceptable risk to users and the environment under normal foreseeable conditions/use.

#### Such regulatory frame works are

- REACH (EU Regulation 1907/2006) and related amendments
- EU POP regulation (EU Regulation 850/2004 and 519/2012) and related amendments
- Biocide Product regulation (EU Regulation 528/2012) and related amendments.
- EU directive concerning packaging materials (94/62/EC) and related amendments.
- RoHS Directive (2011/65 / EU) restricting the presence of hazardous chemical substances in electrical and electronic equipment.
- ETC...

#### Restrictions (EU/EEA)

Restrictions are regulatory measures to protect human health and the environment from unacceptable risks posed by chemicals. Restrictions may limit or ban the manufacture, placing on the market or use of a substance. A restriction can apply to any substance on its own, in a mixture or in an article, including those that do not require registration. Restrictions setting out conditions for the placing on the market of substances apply to both domestic production and imports.

#### Duty to inform your customer on substances for authorisation (EU/EEA)

Substances of Very High Concern (SVHC) are listed on Candidate List for authorization of the Regulation (EC) No 1907/2006 (REACH). All professional actors have an obligation to inform their consumers about the content of SVHC (as a minimum the name of the substance(s)) exceeding 0.1 % weight by weight (= 1000 mg/kg) in individual parts of an article, that are defined as articles. If the consumers are professional actors, there is an immediate information duty, but within 45 days for private consumers.

**The Toxic Substances Control Act of 1976** is a US Federal law that provides US EPA with authority to require reporting, record-keeping and testing requirements, and restrictions relating to chemical substances and/or mixtures. Certain substances are generally excluded from TSCA, including, among others, food, drugs, cosmetics and pesticides.

The official text of TSCA as amended by the Frank R. Lautenberg Chemical Safety Act of the 21st Century is available in the United States Code, from the U.S. Government Printing Office  
TSCA addresses the production, importation, use, and disposal of specific chemicals including polychlorinated biphenyls (PCBs), asbestos, radon and lead-based paint.

**California Proposition 65**, officially known as the Safe Drinking Water and Toxic Enforcement Act of 1986, was enacted as a ballot initiative in November 1986. The proposition protects the state's drinking water sources from being contaminated with chemicals known to cause cancer, birth defects or other reproductive harm, and requires businesses to inform Californians about exposures to such chemicals.

Proposition 65 requires the state to maintain and update a list of chemicals known to the state to cause cancer or reproductive toxicity.

#### Severe hazardous substances

**PBT, vPvB, CMR or ED** Substances defined as persistent, bioaccumulative and toxic (**PBT**), very persistent and very bioaccumulative (**vPvB**), carcinogenic, mutagenic and toxic for reproduction

(**CMR**), endocrine disruptors (**ED**) or equivalent concern cannot exceed 1000 mg/kg in a product. If a specific substance is stated both in the NN RSL and as PBT, vPvB, CMR or ED, the NN requirements must be followed.<sup>1</sup>

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<sup>1</sup>Laws and regulations of countries that products will be sold at must be followed.

## List of Restricted Substances

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**Table 1** provides a quick review of the major restricted substances and the risk level associated with each substance for different materials. **Table 2** is an extensive list of regulated chemicals in EU/EEA with relevance to NN products that show restricted substances and the maximum concentrations.

### DEFINITIONS IN TABLE 2

**CAS RN** - For every substance, the list states the identification number (CAS No) according to Chemical Abstract Services

**Severai** – Is stated instead of CAS number, the substance has several substances and CAS numbers covered by the specification.

In case there is a defined range of regulated substances, these are listed in annexes.

**Detection Limit** - Is defined as the lowest possible value that can be found during testing with a specific test method. Whenever test methods have been revised and the detection limit has been changed, the new detection limit must be followed.

The limits of detection (LOD) and quantification (LOQ) are defined as the lowest concentration of the analyte that can be reliably detected and quantified, respectively. Usually the LOD and LOQ refer to the limits associated with 95% probability of obtaining a correct result.

**Not Detected** - Substance stated with “Not Detected” as a requirement should not be found above the Detection Limit.

**Usage ban** - When a substance is defined as “Usage ban” this means that the substance should not be present and used during production directly or indirectly through transformation in processes. Those substances cannot be present in the product over the Detection Limit.

**Restricted** means restricted according to EU/EEA harmonised chemicals regulations.

**SVHC** means Substances of Very High Concern (SVHC) that are listed on Candidate List for authorization of the Regulation (EC) No 1907/2006 (REACH).

**Limit value** – Limit values are based on the highest allowed content of the substance per kilogram article or part thereof

**No test methods given (N/A)** - For those chemical substances that have no official standard testing method report the method used by the laboratories through Appendix 16 Checklist for laboratories to answer .

**TSCA** (US Federal Toxic Substances Control Act) of existing chemicals

**Prop 65** means that the substance is listed in the Californian Proposition 65.

**Relationship between units used in the guide**

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1000	mg/kg	equals	1000	ppm	(parts per million)
			1 000 000	µg/kg	(microgram per kilogram)
			0.1	% (by weight)	
x				µg/m <sup>2</sup>	x depends on the thickness of the fabric (kg/m <sup>2</sup> )
x				µg/cm <sup>2</sup> /week	x is a measure of the release of a substance from a surface, and is only partially dependent on the concentration of the substance

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Table 1 – Summary of the major restricted substances for different materials

Chemical:	Natural fibres incl. but not limited to:					Synthetic fibres incl. but not limited to:							Natural & Artificial	Plastics and other synthetic	Coating, Print	Finishes	Adhesives &	Metal parts	Rhinstones &	Fusion,	Desiccant's	Packaging
	Cotton	Linen	Wool	Silk	Viscose	Polyester	Polyamid	Acrylic	Acetate	Elastane												
AZO dyes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
Allergenic						✓	✓	✓	✓	✓	✓	✓										
Carcinogenic dyes (CMR)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
DMFa, DMAC, NMP										✓			✓									
NPEO, OPEO (APEO)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Short and Medium Chained														✓	✓	✓						
Formaldehyde	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Glutaraldehyd														✓		✓						
Total Lead														✓	✓	✓	✓	✓	✓	✓	✓	
Total														✓	✓	✓	✓	✓	✓	✓	✓	
Extractable Heavy Metals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
Soluble Heavy Metals																		✓	✓			
Nickel Release																		✓				
Cr +6 (leather)													✓	✓								
N-Nitrosamines																					✓*	
PFAS such as PFOA, PFOS.														✓	✓**	✓	✓*					
PAH														✓	✓	✓	✓*			✓		
Phthalates														✓	✓	✓	✓	✓			✓	
PVC detection														✓	✓	✓					✓	
Quinoline****	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓							
Volatile Organic														✓	✓	✓	✓			✓		
pH Value	✓	✓	✓	✓	✓									✓	✓	✓						
Organotin Compounds	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					
Chlorinated Phenols	✓	✓	✓	✓	✓									✓	✓	✓					✓	
Dimethyle-fumerate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓				✓	
Cobalt																					✓	
Nickel																					✓	

	<b>Natural fibres</b> incl. but not limited to:					<b>Synthetic fibres</b> incl. but not limited to:							<b>Packaging</b>											
	Cotton	Linen	Wool	Silk	Viscose	Polyester	Polyamid	Acrylic	Acetate	Elastane	Natural &	Natural	Artificial &	other synthetic	Plastics and	Coating, Print	Finishes	Adhesives &	Metal parts	Rhinestones &	Fusion,	Desiccant' s		
<b>Chemical:</b>																								
<b>Total Cd, Hg, Pb, Cr +6 ***</b>																								✓

<sup>1</sup> Relevant for acrylate or urethane coatings (DMFa: dimethylformamide)

<sup>2</sup> DMFu: dimethylfumarate

<sup>3</sup> IMO – Recommendations on the safe use of pesticides in ships applicable to the fumigation of cargo holds (2008)

**Table 2 –Extensive list of regulated substances**

EU/EEA regulated substances relevant to NN products	CAS RN	Latest published: CEN/ISO test methods	NN requirement for suppliers	Laboratory indicative limit value (mg/kg)	Legal status
Alkylphenol ethoxylates (APEO) and derivatives. Alkylphenols (AP)	Annex 1	EN ISO 18254-1:2016, 2:2019 (textile), (APEO)  EN ISO 21084:2019 (textile), (AP)  EN ISO 18218-1:2015 (APEO direct method, leather)  EN ISO 18218-2:2019 (APEO indirect method, leather)	Usage ban	< <sup>1</sup> 10	Annex 1
Arsenic compounds	Annex 2	EN 16711-1,-2:2015 (textile)  <a href="#">EN ISO 17072-1:2019 (leather)</a>  <a href="#">EN ISO 17072-2:2022 (leather)</a>	Usage ban	< 1	Annex 2  Prop 65
Bisphenols	80-05-07(BPA)  77-40-7 (BPB)  6807-17-6: 2,2-bis(4'-hydroxyphenyl)-4-methylpentane  <a href="#">80-09-1,</a>	CEN/TS 13130-13:2005	Usage ban	< 1	SVHC restric rop 65 (BPA)

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slettet: (Bisphenol A, abbr: BPA and Bisphenol B abbr: BPB) ¶

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SVHC

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<sup>1</sup> < means "less than"



EU/EEA regulated substances relevant to NN products	CAS RN	Latest published: CEN/ISO test methods	NN requirement for suppliers	Laboratory indicative limit value (mg/kg)	*Legal status
	<a href="#">4,4'-sulphonyldiphenol</a>				
C,C'-azodi(formamide) (ADCA)	123-77-3	Not yet available	Usage ban	< 10	SVHC
Ethylenediamine (EDA)	107-15-3	Not yet available	Usage ban	< 10	SVHC
Ethylenethiourea	96-45-7	Not yet available	Usage ban	< 1	SVHC Prop 65
Formamide	0075-12-07	Not yet available	Usage ban	< 10	SVHC
Hydrazine	302-01-2	Not yet available	Usage ban	< 10	SVHC
1-vinylimidazole	1072-63-5	Not yet available	Usage ban	< 10	SVHC
2-methylimidazole	693-98-1	Not yet available	Usage ban	< 10	SVHC
<a href="#">Melamine</a>	<a href="#">108-78-1</a>	<a href="#">Not yet available</a>	<a href="#">Usage ban</a>	<a href="#">&lt; 10</a>	<a href="#">SVHC</a>
2-methoxyethyl acetate	110-49-6	Not yet available	Usage ban	< 10	SVHC
Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	Not yet available	Usage ban	< 10	SVHC
PAH - Polycyclic aromatic hydrocarbons	Annex 3	EN 17132:2019 (textile)	Usage ban of compounds	< 0,1	Annex 3

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EU/EEA regulated substances relevant to NN products	CAS RN	Latest published: CEN/ISO test methods	NN requirement for suppliers	Laboratory indicative limit value (mg/kg)	*Legal status
		EN ISO 16190:2021 (footwear)	that can generate PAH		Prop 65
Quinoline	91-22-5	Not yet available	Usage ban	< 0,1	Restricted Prop 65
Solvents - Aliphatic organic solvents	Several	Not yet available	<b>Usage ban of Cyclohexane</b> (CAS RN 110-82-7)	< 0,1	Restricted is Cyclohexane (CAS RN 110-82-7)
Solvents - Aromatic organic solvents	Several	Not yet available	<b>Usage ban of benzene</b> (CAS RN 71-43-2) <b>and Toluene</b> (CAS RN 108-88-3)	< 0,1	Restricted in EU/EEA are: benzene (CAS RN 71-43-2) and Toluene (CAS RN 108-88-3) Prop 65 for benzene
Solvents - Chlorinated organic solvents	Annex 4	EN 17137:2018 (textile)	Usage ban of listed in annex 4 and Prop 65	< 0,1	Annex 4 Several are listed in Prop 65
Solvents – 1,4 dioxane	123-91-1	Not yet available	Usage ban	< 1	SVHC
Solvents - DMFa (N,N-dimethylformamide)	127-19-5	EN 17131:2019 (textile)  CEN ISO/TR 16178:2021 (footwear) EN ISO 16189:2021 (footwear)	Usage ban	< 1	SVHC and restricted Prop 65

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EU/EEA regulated substances relevant to NN products	CAS RN	Latest published: CEN/ISO test methods	NN requirement for suppliers	Laboratory indicative limit value (mg/kg)	*Legal status
		EN 16778:2016 (gloves)			
Solvents - DMAC (N,N-dimethylacetamide)	127-19-5	Not yet available	Usage ban	< 1	SVHC and restricted Prop 65
Solvents - NMP (N-methyl-2-pyrrolidone)	872-50-4	EN ISO 19070:2016 (leather)	Usage ban	< 1	SVHC and restricted Prop 65
N-(hydroxymethyl)acrylamide	924-42-5	Not yet available	Usage ban	< 1	SVHC
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	Not yet available	Usage ban	<1	*SVHC
Tin organic compounds (Organostannic compounds)	Several	EN ISO 22744-1:2020 (textile) EN ISO 22744-2:2020 (textile) CEN ISO/TS 16179:2012 (footwear)	Usage ban	< 10	SVHC and restricted
tris(2-methoxyethoxy)vinylsilane	1067-53-4	Not yet available	Usage ban	<10	SVHC
Allergenic dyes	Annex 5	EN ISO 16373-1:2015,-2,-3:2014 (textile)	Usage ban	< 5	Annex 5 Prop 65
Restricted arylamines related to azo dyes	Annex 6	EN ISO 14362-1, 3:2017 (textile) EN ISO 17234-1:2020 (leather)	Usage ban	< 5	Annex 6 Prop 65

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EU/EEA regulated substances relevant to NN products	CAS RN	Latest published: CEN/ISO test methods	NN requirement for suppliers	Laboratory indicative limit value (mg/kg)	*Legal status
		EN ISO 17234-2:2011 (leather)			
Benzotriazols (UV-320, UV-327, UV-328 and UV-350)	3846-71-7 (UV320) 3864-99-1(UV327) 25973-55-1(UV 328) 36437-37-3 (UV 350)	ISO 24040:2022 (textiles)	Usage ban	< 10	SVHC
3-benzylidene camphor (1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1] heptan-2-one) ( abbr: 3-BC)	15087-24-8	Not yet available	Usage ban	< 10	SVHC
Boric acid, borate compounds	Several	Not yet available	Usage ban	< 10	SVHC and restricted
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	Not yet available	Usage ban	< 10	SVHC
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	Not yet available	Usage ban	< 10	SVHC
Cadmium (Cd) and cadmium salts	7440-43-9 (cadmium metal)	EN 16711-1, -2:2015 (textile)	Usage ban	< 1	SVHC and restricted
	Several	EN ISO 17072-1:2019 EN ISO 17072-2:2022 (leather)			
Cobalt (Co) and its compounds	7440-48-4 (cobalt metal)	EN 16711-1, -2:2015 (textile)	Usage ban	< 10	SVHC
	Several	EN ISO 17072-1:2019 EN ISO 17072-2:2022 (leather)			

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EU/EEA regulated substances relevant to NN products	CAS RN	Latest published: CEN/ISO test methods	NN requirement for suppliers	Laboratory indicative limit value (mg/kg)	Legal status
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					slettet: EN ISO 17072-1, -2:2019 (leather)
CMR, Carcinogenic, Mutagenic, Reproductive toxic dyestuffs	Annex 7	EN ISO 16373-1.2015,-2,-3:2014 (textile)	Usage ban	< 5	Annex 7 formaterte: Skrift: Fet
Chloroparaffins	85535-84-8 (SCCP)	EN ISO 22818:2021 (textile) EN ISO 18219-1,-2:2021 (leather)	Usage ban	< 10	SVHC and restricted Prop 65
	85535-85-9 (MCCP)		Usage ban	< 10	SVHC Prop 65
Chromium VI	18540-29-9	EN ISO 17075-1,-2:2017 (leather) EN ISO 10195:2021 (leather)	Usage ban of chrome tanned leather	< 3	SVHC and restricted Prop 65
Dechlorane <sup>TM</sup> Plus (1,6,7,8,9,14,15,16,17,17,18,18 Dodecachloropentacyclo[1.2.2.1.1.16,9.02,13.05,10]octadeca-7,15-diene)	13560-89-9	Not yet available	Usage ban	< 1	SVHC
Formaldehyde	50-00-0	EN ISO 14184-1,-2:2011 (textile) EN ISO 17226-1:2021(leather) EN ISO 17226-2:2019 (leather) EN ISO 17226-3:2011(formaldehyde emissions from leather)	Usage ban of formaldehyde releasers and formaldehyde	< 13	Annex 8 TSCA Prop 65
Glutaraldehyde	111-30-8	Not yet available	Usage ban	< 15	SVHC

EU/EEA regulated substances relevant to NN products	CAS RN	Latest published: CEN/ISO test methods	NN requirement for suppliers	Laboratory indicative limit value (mg/kg)	Legal status
<a href="#">Melamine</a>	<a href="#">108-78-1</a>	<a href="#">Not yet available</a>	<a href="#">Usage ban</a>	<a href="#">&lt; 200</a>	<a href="#">SVHC</a>
Hexabromocyclododecan (HBCDD)	25637-99-4, 3194-55-6, 134237-50-6,  134237-51-7 and  134237-52-8	EN ISO 17881-1:2016 (textile)	Usage ban	< 5	SVHC
Lead (Pb) and lead salts	7439-92-1 (lead metal)  Several	EN 16711-1,-2:2015, -3:2019 (textile)  <a href="#">EN ISO 17072-1:2019</a> <a href="#">EN ISO 17072-2:2022 (leather)</a>	Usage ban	< 1	SVHC and restricted  TSCA  Prop 65
Mercury (Hg)	7439-97-6	EN 16711-1,-2:2015 (textile)  <a href="#">EN ISO 17072-1:2019</a> <a href="#">EN ISO 17072-2:2022 (leather)</a>	Usage ban	< 1	SVHC and restricted  TSCA
Nickel (Ni), in accessories	7440-02-0	EN 12472:2020  and  EN 1811:2011+A1:2015 (for coated items)  EN 1811:2011+A1:2015 (for non-coated item).	Usage ban	< 1	Restricted  Prop 65

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slettet: EN ISO 17072-1, -2:2019 (leather)

slettet: EN ISO 17072-1, -2:2019 (leather)

EU/EEA regulated substances relevant to NN products	CAS RN	Latest published: CEN/ISO test methods	NN requirement for suppliers	Laboratory indicative limit value (mg/kg)	Legal status
<a href="#">Per and polyfluorinated alkyl substances (PFAS)</a>	Annex 9	<a href="#">EN 17681-1:2022 (non volatile PFAS, textiles)</a> <a href="#">EN 17681-2:2022 (volatile PFAS, textile)</a> EN ISO 23702-1:2018 (leather)	Usage ban	< 0,001 < 0,1 ug/m <sup>2</sup> (PFOS)	Annex 9 TSCA PFOA and PFOS are listed Prop 65
Ortho-phthalate esters	Annex 11	EN ISO 14389:2022 (textile) EN ISO 16181-1, -2:2021 (footwear)	Usage ban	< 5	Annex 11
Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)	Annex 12	EN ISO 17881-1:2016 (textile)	Usage ban	< 5	Annex 12
<a href="#">bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof</a> <a href="#">Bis(2-ethylhexyl) tetrabromophthalate</a>	Several	<a href="#">EN ISO 17881-1:2016 (textile)</a>	Usage ban	<100	SVHC

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**formaterte:** Skrift: (Standard) + Brødtekst (Calibri)

**formaterte:** Hevet

**slettet:** Not yet available for textiles

**slettet:** PFAS - Highly fluorinated carboxylic acids (PFOA and related substances)  
 PFAS - Highly fluorinated sulfonic acids (PFOS and related substances)  
 PFAS - Highly fluorinated ethers (PFPEs)

**slettet:** CEN/TS 15968:2010 (textile)

EN ISO 23702-1:2018 (leather)

**slettet:** Usage ban

**slettet:** < 0,001

**slettet:** Not yet available

**slettet:** Usage ban

**slettet:** < 0,001

**slettet:** 2014

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EU/EEA regulated substances relevant to NN products	CAS RN	Latest published: CEN/ISO test methods	NN requirement for suppliers	Laboratory indicative limit value (mg/kg)	*Legal status
<a href="#">2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol also called TBBPA</a>	<a href="#">79-94-7</a>	<a href="#">EN ISO 17881-1:2016 (textile)</a>	<a href="#">Usage ban</a>	<a href="#">&lt; 100</a>	SVHC
<a href="#">1,1'-(ethane-1,2-diylbisoxo)bis[2,4,6-tribromobenzene]</a>	<a href="#">37853-59-1</a>	<a href="#">EN ISO 17881-1:2016 (textile)</a>	<a href="#">Usage ban</a>	<a href="#">&lt; 100</a>	SVHC
2,2-bis(bromomethyl)propane 1,3-diol (BMP)	3296-90-0	EN ISO 17881-1:2016 (textile)	Usage ban	< 10	*SVHC
2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	36483-57-5	EN ISO 17881-1:2016 (textile)	Usage ban	< 10	SVHC
2,3-dibromo-1-propanol (2,3-DBPA)	1522-92-5 96-13-9	EN ISO 17881-1:2016 (textile)	Usage ban	< 10	SVHC
Siloxanes (D4, D5 and D6)	556-67-2 (D4) 541-02-6 (D5) 540-97-6 (D6)	Not yet available	Usage ban	< 10	SVHC
Halogenated aryl phosphates – TCEP, TBPP, TCPP and TDCPP	115-96-8, 126-72-7, 13674-84-5, 13674-87-8	EN ISO 17881-2:2016 (textile)	Usage ban	< 1	SVHC TCEP, TBPP and TDCPP are listed in Prop 65
Aryl phosphates Trixylyl phosphate, Triphenylphosphate	25155-23-1, 115-86-6	EN ISO 17881-2:2016 (textile)	Usage ban	< 10	SVHC

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EU/EEA regulated substances relevant to NN products	CAS RN	Latest published: CEN/ISO test methods	NN requirement for suppliers	Laboratory indicative limit value (mg/kg)	*Legal status
Tris(aziridinyl)phosphinoxide (TEPA)	545-55-1	EN ISO 17881-2:2016 (textile)			Restricted
<b>RESTRICTED or BANNED BIOCIDES</b>					
Cu-HDO (Bis-(N-cyclohexyldiazaniumdioxy)-copper)	27083-27-8	Not yet available	Usage ban	< 1	*Banned
Dimethylfumarate (DMFu)	624-49-7	EN 17130:2019 (textile) EN ISO 16186:2021 (footwear)	Usage ban	< 0,01	Restricted
Guanidine, N,N''-1,6-hexanediylbis[N'-cyano-, polymer with 1,6-hexanediamine, hydrochloride (PHMB 1600; 1.8)	27083-27-8	Not yet available	Usage ban	< 1	Banned
Pentachlorophenol (PCP) and all isomers of Tetrachlorophenols (TeCP)	87-86-5 Several	EN ISO 17070:2015 (leather) CEN/TR 14823:2003 (wood) EN ISO 15320:2011 (pulp and paper)	Usage ban	< 0,1	Restricted PCP is listed in Prop 65
Permethrin	52645-53-1	Not yet available	Usage ban	< 1	
Silver and its compounds	Several	Not yet available	Usage ban	< 1	Nanosilver is banned
Trisubstituted tin organic compounds	Several	EN ISO 22744-1,-2:2020 (textile) CEN ISO/TS 16179:2012 (footwear)	Usage ban	< 1	Restricted

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\*Banned Formatertabell

EU/EEA regulated substances relevant to NN products	CAS RN	Latest published: CEN/ISO test methods	NN requirement for suppliers	Laboratory indicative limit value (mg/kg)	*Legal status
Triclosan	3380-34-5	EN 17134:2019  (2-phenylphenol (OPP) and triclosan in textile materials)	Usage ban	< 1	Banned  OPP is listed in Prop 65
2-phenylphenol (OPP)	90-43-7  <a href="#">13707-65-8 (potassium salt)</a> ,  <a href="#">132-27-4 (sodium salt)</a>	EN ISO 13365-1,-2:2020 (TCMTB, PCMC, OPP, OIT, content in leather)	Usage ban	< 1	Banned
Zincpyrithion	13463-41-7	Not yet available	Usage ban	< 1	
Bronopol	52-51-7	Not yet available	Usage ban	< 1	Banned
Thiram	137-26-8	Not yet available	Usage ban	< 1	Banned
Metam-sodium ( (sodium N-methyldithiocarbamate)	137-42-8	Not yet available	Usage ban	< 1	Banned  Prop 65
<a href="#">Parabenes</a>	<a href="#">Several</a>	<a href="#">Not yet available</a>	<a href="#">Usage ban</a>	<a href="#">&lt; 1</a>	<a href="#">Banned</a>
<a href="#">Polyhexamethylene biguanide hydrochloride with a mean number-average molecular weight (Mn) of 1415 and a mean polydispersity (PDI) of 4.7 (PHMB(1415:4.7))</a>	<a href="#">Several</a>	<a href="#">Not yet available</a>	<a href="#">Usage ban</a>	<a href="#">&lt; 1</a>	<a href="#">Banned</a>
<a href="#">Sodium p-chloro-m-cresolate</a>	<a href="#">15733-22-9</a>	<a href="#">Not yet available</a>	<a href="#">Usage ban</a>	<a href="#">&lt; 1</a>	<a href="#">Banned</a>

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#### Annex 1 - Alkylphenol ethoxylates (APEO) and derivatives

Substances	CAS RN	Legal status
4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-OP)	140-66-9	SVHC
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (4-tert-OPnEO)	Several	SVHC
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (4-tert-OPnEO, UVCB substance)	Several	SVHC
4-Nonylphenol, branched and linear (4-NP)	Several	SVHC
4-Nonylphenol, branched and linear, ethoxylated (4-NPnEO)	Several	SVHC and restricted
4-tert-butylphenol	98-54-4	SVHC
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	Several	SVHC
tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	Several	SVHC

### Annex 2 – arsenic compounds

Substance	CAS RN	Legal status
Arsenic acid	7778-39-4	SVHC and restricted
Calcium arsenate	7778-44-1	SVHC and restricted
Diarsenic Pentoxide	1303-28-2	SVHC and restricted
Diarsenic Trioxide	1327-53-3	SVHC and restricted
Triethyl arsenate	15606-95-8	SVHC and restricted

### Annex 3 - Poly aromatic hydrocarbons (PAH)

Substances	CAS RN	Legal status
Benzo(a)anthracene	56-55-3	SVHC and restricted
Benzo(a)phenanthrene (chrysene)	218-01-9	SVHC and restricted
Benzo(a)pyrene	50-32-8	SVHC and restricted
Benzo(b)fluoranthene	205-99-2	SVHC and restricted
Benzo(j)fluoranthene	205-82-3	SVHC and restricted
Benzo(k)fluoranthene	207-08-9	SVHC and restricted
Dibenzo(a,h)anthracene	53-70-3	SVHC and restricted
Benzo[e]pyrene	192-97-2	SVHC and restricted
Benzo[ghi]perylene	191-24-2	SVHC
Anthracene	120-12-7	SVHC
Fluoranthene	206-44-0	SVHC
Phenanthrene	85-01-8	SVHC
Pyrene	129-00-0	SVHC
Anthracene oil	90640-80-5	SVHC
Anthracene oil fraction (a complex combination of the distillation of Anthracene)	91995-17-4	SVHC
Anthraceneoil, Athracene paste, Anthracene fraction	91995-15-2	SVHC
Anthracene oil, Anthracene-low	90640-82-7	SVHC
Anthracene oil, Anthracene paste	90640-81-6	SVHC

**Annex 4 - Regulated chlorinated solvents**

<b>Substances</b>	<b>CAS-RN</b>	<b>Legal status</b>
Chloroform	67-66-3	Restricted
1,1,2 Trichloroethane	79-00-5	Restricted
1,1,2,2 Tetrachloroethane	79-34-5	Restricted
1,1,1,2 Tetrachloroethane	630-20-6	Restricted
Pentachloroethane	0076-01-07	Restricted
1,1 Dichloroethylene	75-35-4	Restricted
1,4-dichlorobenzene	106-46-7	Restricted
Carbon tetrachloride	56-23-5	Restricted
1,1,1 Trichloroethane	71-55-6	Restricted
$\alpha,\alpha,\alpha,4$ -tetrachlorotoluene;	5216-25-1	Restricted
p-chlorobenzotrichloride	5216-25-1	Restricted
$\alpha,\alpha,\alpha$ -trichlorotoluene; benzotrichloride	0098-07-07	Restricted
$\alpha$ -chlorotoluene; benzyl chloride	100-44-7	Restricted
Trichloroethylene	79-01-6	SVHC
1,2,3-trichloropropane	96-18-4	SVHC
1,2 dichlorethane	107-06-2	Restricted Prop 65

#### Annex 5 - Allergenic dyestuffs

Substances	CAS RN	Legal status
C.I. Disperse Yellow 1	119-15-3	
C.I. Disperse Blue 35	12222-75-2	Restricted
C.I. Disperse Blue 102	12222-97-8	
C.I. Disperse Blue 106	12223-01-7, 68516-81-4	
C.I. Disperse Yellow 39	12236-29-2	
C.I. Disperse Orange 37/59/76	13301-61-6	
C.I. Disperse Brown 1	23355-64-8	
C.I. Disperse Blue 3	2475-46-9	
C.I. Disperse Orange 1	2581-69-3	
C.I. Disperse Yellow 3	2832-40-8	
C.I. Disperse Red 11	2872-48-2	
C.I. Disperse Red 1	2872-52-8	
C.I. Disperse Red 17	3179-89-3	
C.I. Disperse Blue 7	3179-90-6	
C.I. Disperse Blue 26	3860-63-7,	
C.I. Disperse Yellow 49	54824-37-2,	
C.I. Disperse Blue 124	61951-51-7	Restricted
C.I. Disperse Yellow 9	6373-73-5	
C.I. Disperse Orange 3	730-40-5	
Navy Blue	405-665-4 (EC #)	
C.I Disperse Blue 1	2475-45-8	Restricted
Disperse Yellow 64	10319-14-9	
Disperse Violet 93	122463-28-9	
CI Disperse Yellow 23	6250-23-3	
CI Disperse Violet 1	128-95-0	
CI Disperse Blue 291	56548-64-2	
CI Disperse Orange 149	85136-74-9	

**Annex 6 - Banned arylamines derived from certain azo dyes**

<b>Substances</b>	<b>CAS RN</b>	<b>Legal status</b>
4,4-Methylene-bis[2-chloro-aniline]	101-14-4	SVHC and restricted
4,4-Methylenedianiline	101-77-9	SVHC and restricted
4,4'-oxydianiline	101-80-4	SVHC and restricted
4-chloroaniline	106-47-8	Restricted
o-Dianisidine	119-90-4	Restricted
4,4'-bi-o-toluidine	119-93-7	Restricted
p-Cresidine	120-71-8	Restricted
2,4,5-trimethylaniline	137-17-7	Restricted
4,4'-thiodianiline	139-65-1	Restricted
4-Aminoazobenzene	60-09-3	SVHC and restricted
4-methoxy-m-phenylenediamine	615-05-4	Restricted
4,4-Methylenedi-o-toluidine	838-88-0	SVHC and restricted
2,6-xylidine	87-62-7	Restricted
o-Anisidine	90-04-0	Restricted
2-Naphthylamine	91-59-8	Restricted
3,3-Dichlorobenzidine	91-94-1	Restricted
Biphenyl-4-ylamine	92-67-1	Restricted
Benzidine	92-87-5	Restricted
o-Toluidine	95-53-4	Restricted
2,4-xylidine	95-68-1	Restricted
4-Chloro-o-toluidine	95-69-2	Restricted
4-methyl-m-phenylenediamine	95-80-7	Restricted
o-Aminoazotoluene	97-56-3	Restricted
5-Nitro-o-toluidine	99-55-8	Restricted
4-chloro-o-toluidinium chloride	3165-93-3	Restricted
2-Naphthylammoniumacetate	553-00-4	Restricted
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	Restricted
2,4,5-trimethylaniline hydrochloride	21436-97-5	Restricted

**Annex 7 - CMR dyestuffs**

<b>Substances</b>	<b>CAS RN</b>	<b>Legal status</b>
C.I. Direct Brown 95	16071-86-6	
C.I. Direct Black 38	1937-37-7	SVHC
C.I. Disperse Blue 1	2475-45-8	Restricted
C.I. Direct Blue 6	2602-46-2	
C.I. Acid Red 26	3761-53-3	
C.I. Basic Red 9	569-61-9	
C.I. Direct Red 28	573-58-0	SVHC
C.I. Basic Violet 14	632-99-5	
C.I. Disperse Orange 11	82-28-0	
C.I. Disperse Orange 149	85136-74-9	
C.I. Solvent Blue 4	6786-83-0	SVHC
C.I. Basic Blue 26,	2580-56-5	SVHC
C.I. Basic Violet 3	548-62-9	SVHC and restricted
Michler's base	101-61-1	SVHC
Michler's ketone	90-94-8*	SVHC Prop 65
C.I. Disperse Yellow 3	2832-40-8	
Acid red 114	6459-94-5	Prop 65
Direct blue 15	2429-74-5	Prop 65
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	SVHC



### Annex 8 – legal status formaldehyde

Formaldehyde regulations within EU/EEA.		
Country	Regulations/Requirements	Objection Limit / Limit
Germany	Gefahrstoffverordnung (Hazardous Substances Ordinance) Annex III, No. 9,	Textiles that normally come into contact with the skin and release more than 1500 mg/kg formaldehyde must bear the label: "Contains formaldehyde".
France	Official Gazette of the French Republic, Notification 97/0141/F	The regulations apply to products that are intended to come into contact with human skin, Including: textiles, leather, shoes etc. Textiles for babies: 20 mg/kg. <del>Textiles in direct skin contact: 100 mg/kg. Textiles not in</del>
Netherlands	The Dutch (Commodities Act) Regulations on Formaldehyde in Textiles	Textiles in direct skin contact must be labelled: "Wash before first use" if they contain more than 120 mg/kg formaldehyde and the product must not contain more
Austria	Formaldehydverordnung, BGBl. Nr. 194/1990	Textiles that contains 1500 mg/kg or above must be labelled
Finland	Decree on Maximum Amounts of Formaldehyde in Certain Textiles Products	Textiles for babies under 2 years: 30 mg/kg. Textiles in direct skin contact: 100 mg/kg. <del>Textiles not in direct skin contact: 300 mg/kg.</del>
Norway	Regulations Governing the Use of a Number of Chemicals in Textiles (April 1999)	Textiles for babies under 2 years: 30 mg/kg. Textiles in direct skin contact: 100 mg/kg. Textiles not in direct skin contact: 300 mg/kg.

Formaldehyde regulations outside EU/EEA		
Country	Regulations/Requirements	Objection Limit / Limit
China	Limits of Formaldehyde Content in Textiles: GB18401, <del>Textiles GB 18401</del>	Textiles for infants and babies: ≤20 mg/kg. Textiles in direct skin contact: ≤75 mg/kg. Textiles not in direct skin contact: ≤300 mg/kg.
Japan	Japanese Law 112 Textiles: JIS L1041	Textiles for infants: Not detectable. Textiles in direct skin contact: 75 ppm.
Vietnam	Circular no 23/2016/TT-BCT	Textiles for babies under 36 months: 30 mg/kg. Textiles in direct skin contact: 75 mg/kg. Textiles not in direct skin contact: 300 mg/kg
USA	Federal Hazardous Substances Act (FHSA)	The Federal Hazardous Substances Act (FHSA) is a chemicals legislation that does not focus on products but regulates certain hazardous substances in products, such as lead in candle wicks and solvents in shoe waxes. Consumer products containing more than 1% formaldehyde must be labeled with a warning. The following states have restrictions of formaldehyde: California (cleaning products, cosmetics, wood products), Illinois, Iowa, Louisiana, Massachusetts (children's products,

Formaldehyde regulations outside EU/EEA		
Country	Regulations/Requirements	Objection Limit / Limit
Eurasian Customs Union (Armenia, Belarus, Kazakhstan, Kyrgyzstan and Russia)	Technical Regulation on the, TP TC 007/2011 On "Safety of Products intended for children and adolescents", enacted in 2011 and its amendment "Decision № 51 (28 April 2017)", enacted in 2017. "TP TC 017/2011 On Safety of Light Industry Products enacted in 2011 and its amendment "Decision № 60 (9 August 2016)" enacted in 2016.GOST	Mass fraction of free Formaldehyde babies up to 36 months: 20 mcg/g for 1st and 2nd layer of products and 300 mcg/g for 3rd layer  Mass fraction of free Formaldehyde for children and adolescents: 75 mcg/g for 1st and 2nd layer of products and 300 mcg/g for 3rd layer  <i>Apply less than 20 mg free formaldehyde/kg as a customs requirement.</i>

**Annex 9 - Fluorochemicals (PFAS)**

Substances	Acronym	CAS RN
<b>PFSA (perfluorinated sulfonic acids) related substances</b>		
Perfluorooctane sulfonate	PFOS	1763-23-1
Perfluorooctanesulfonamide	PFOSA	754-91-6
N-Methyl-Perfluorooctanesulfonamide	N-Me-FOSA	31506-32-8
N-Ethyl-Perfluorooctanesulfonamide	N-Et_FOSA	4151-50-2
N-Methyl-Perfluorooctanesulfonamidoethanol	N-Me-FOSE	24448-09-7
N-Ethyl-Perfluorooctanesulfonamidoethanol	N-Et-FOSE	1691-99-2
Perfluorohexane sulfonate	PFHxS	355-46-4
Perfluorobutane sulfonate	PFBS	375-73-5
<b>PFCA (perfluorinated carboxylic acids) related substances</b>		
Perfluorooctane acid	PFOA	335-67-1
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	PFDA	335-76-2
Perfluoroundecanoic acid	PFUnA	2058-94-8
Heptacosafuorotetradecanoic acid	PFTA	376-06-7
Tricosafuorododecanoic acid	PFDoA	307-55-1
Pentacosafuorotridecanoic acid	PFTrDA	72629-94-8
Ammonium pentadecafluorooctanoate	APFO	3825-26-1
Sodium perfluorooctanoate	Na-PFO	335-95-5
Potassium perfluorooctanoate	Ca-PFO	2395-00-8
Silver perfluorooctanoate	Ag-PFO	335-93-3
Perfluorooctanoyl fluoride	F-PFO	335-66-0
Methyl pentadecafluorooctanoate	Me-PFO	376-27-2
Ethyl perfluorooctanoate	Et-PFO	3108-24-5
<b>Fluorotelomers (precursors)</b>		
4:2 fluorotelomer sulfonate	4:2 FTS	757124-72-4
6:2 fluorotelomer sulfonate	6:2 FTS	27619-97-2
8:2 fluorotelomer sulfonate	8:2 FTS	39108-34-4
1H,1H,2H,2H-Perfluorohexanol	4:2 FTOH	2043-47-2
1H,1H,2H,2H-Perfluoro-1-octanol	6:2 FTOH	647-42-7
1H,1H,2H,2H-Perfluoro-1-decanol	8:2 FTOH	678-39-7
1H,1H,2H,2H-Perfluorododecane-1-ol	10:2 FTOH	865-86-1
1H,1H,2H,2H-Perfluorooctylacrylat	6:2 FTA	17527-29-6
1H,1H,2H,2H-Perfluorodecylacrylat	8:2 FTA	27905-45-9
1H,1H,2H,2H-Perfluorododecylacrylat	10:2 FTA	17741-60-5
3,3,4,4,5,5,6,6,7,7,8,8,8-	6:2 FTMA	2144-53-8
tridecafluorooctyl methacrylate		

Annex 10 – legal status PFAS

PFAS substances, their salts and related substances	CAS	Abbr.	SVHC	REACH Annex XVII	EU POP regulation	Prop 65	Stockholm Convention
Perfluorobutane sulfonate	375-73-5	PFBS	Yes				
Perfluorohexane sulfonate	355-46-4	PFHxS	Yes	On going			Ongoing
Perfluorohexanoic acid	307-24-4	PFHxA	<a href="#">Yes</a>	On going			
Perfluorooctane sulfonate	307-34-6	PFOS			Yes	Yes	Yes
Perfluorononanoic acid and its sodium ammonium salts,	375-95-1 21049-39-8, 4149-60-4	PFNA	Yes	Yes			
Perfluorodecanoic acid its sodium and ammonium salts,	335-76-2 3108-42-7 3830-45-3	PFDA	Yes	Yes			
Pentacosafuoro tridecanoic acid	72629-94-8	PFTrDA	Yes	Yes			
Tricosafuoro dodecanoic acid	307-55-1	PFDoA	Yes	Yes			
Henicosafuoro undecanoic acid	2058-94-8	PFUnA	Yes	Yes			
Heptacosafuoro tetradecanoic acid	376-06-7	PFTA	Yes	Yes			
Perfluorooctane acid Ammonium pentadecafluoro octanoate	335-67-1 3825-26-1	PFOA APFO	Yes		Yes	Yes	Yes
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	Various	HPFO-DA*	Yes				
<a href="#">reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine</a>	<a href="#">Various</a>		<a href="#">Yes</a>				
Broader PFAS regulation	Suggested to cover all compounds that include			On going			

PFAS substances, their salts and related substances	CAS	Abbr.	SVHC	REACH Annex XVII	EU POP regulation	Prop 65	Stockholm Convention
	one or more perfluorinated moieties.						

Annex 11 - Regulated ortho - phthalate esters

Substance	Abbreviation	CAS RN	Legal status
Bis(2-ethylhexyl) phthalate	DEHP	117-81-7	SVHC and restricted Prop 65
Dibutyl phthalate	DBP	84-74-2	SVHC and restricted Prop 65
Benzyl butyl phthalate	BBP	85-68-7	SVHC and restricted Prop 65
Diisononyl phthalate	DINP	28553-12-0 and 68515-48-0	Restricted Prop 65
Diisodecyl phthalate	DIDP	26761-40-0 and 68515-49-1	Restricted Prop 65
Di-n-octyl phthalate	DNOP	117-84-0	Restricted
Diisobutyl phthalate	DIBP	84-69-5	SVHC and restricted
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	DIHP	71888-89-6	SVHC and restricted
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	DHNUP	68515-42-4	SVHC
Bis(2-methoxyethyl) phthalate	DMEP	117-82-8	SVHC and restricted
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear		84777-06-0	SVHC
Diisopentyl phthalate	DIPP	605-50-5	SVHC and restricted
N-pentyl-isopentylphthalate	PIPP	776297-69-9	SVHC
Dipentyl phthalate	DPP	131-18-0	SVHC
Dihexyl phthalate	DnHP	84-75-3	SVHC and restricted Prop 65
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear		68515-50-4	SVHC
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters with $\geq 0.3\%$ of dihexyl phthalate (CAS 84-75-3)		68515-51-5	SVHC
1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (CAS 84-75-3)		68648-93-1	SVHC
Dicyclohexyl phthalate	DCHP	84-61-7	SVHC
Diisohexylphthalate	DIHXP	71850-09-4	SVHC

**formaterte:** Skrift: (Standard) +Brødtekst (Calibri), Utheving

**formaterte:** Skrift: (Standard) +Brødtekst (Calibri), Utheving

**Annex 12 – Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)**

<b>Substance</b>	<b>Abbreviation</b>	<b>CAS RN</b>	<b>Legal status</b>
<b>PBBs</b>			
Polybrominated biphenyls	PBB	59536-65-1 (mix)	Restricted, Prop 65
Hexabromobiphenyl	HBB	36355-01-8	Restricted
<b>PBDEs</b>			
Pentabromodiphenyl ether	PentaBDE	32534-81-9, 60348-60-9	Restricted, Prop 65
Octabromodiphenyl ether	OctaBDE	32536-52-0	Restricted
Decabromodiphenyl ether	DecaBDE	1163-19-5	SVHC and restricted
Tetrabromodiphenyl ether	TetraBDE	5436-43-1	Restricted
Heptabromodiphenyl ether	HeptaBDE	207122-16-5, 446255-22-7	Restricted
Hexabromodiphenyl ether	HexaBDE	68631-49-2, 207122-15-4	Restricted

## Annex 13 – legal requirements in USA and its states

### US states requirements of metals in various applications

**Alabama** (cadmium and lead in children's products, cosmetics, jewelry, toys),  
**Arkansas** (mercury in electronics equipment),  
**California** (cadmium in jewelry, lead and arsenic in glass beads, arsenic, cadmium, lead and mercury in toys, cadmium, hexavalent chromium, lead, mercury in electronics equipment and packaging),  
**CoNNecticut** (lead in children's products, cadmium in jewelry, cadmium, hexavalent chromium, lead, mercury in packaging, mercury in electronics equipment),  
**Delaware** (lead in children's products),  
**Florida** (cadmium in children's products, jewelry, toys, cadmium, hexavalent chromium, lead, mercury in packaging, mercury in electronics equipment),  
**Georgia** (cadmium, hexavalent chromium, lead, mercury in packaging, mercury in electronics equipment),  
**Illinois** (lead in children's products, toys, cadmium and lead in jewelry, cadmium, hexavalent chromium, lead, mercury in packaging, cadmium, hexavalent chromium, lead, mercury),  
**Indiana** (cadmium and lead in children's products, cosmetics, jewelry, toys), Iowa (cadmium, hexavalent chromium, lead, mercury in packaging),  
**Kentucky** (lead in children's products, furniture, jewelry, toys),  
**Louisiana** (lead in children's products, furniture, toys),  
**Maine** (cadmium, hexavalent chromium, lead, mercury in packaging, mercury in electronics equipment),  
**Maryland** (cadmium, hexavalent chromium, lead, mercury in packaging),  
**Massachusetts** (cadmium and lead in children's products, jewelry, toys, mercury in electronics equipment),  
**Michigan** (mercury in electronics equipment),  
**MiNNesota** (cadmium in jewelry, cadmium, hexavalent chromium, lead, mercury in packaging),  
**Mississippi** (cadmium and lead in children's products, cosmetics, jewelry, toys),  
**Missouri** (cadmium, hexavalent chromium, lead, mercury in packaging),  
**New Hampshire** (cadmium, hexavalent chromium, lead, mercury in packaging),  
**New Jersey** (cadmium, lead and mercury in children's products, cosmetics, toys, cadmium, hexavalent chromium, lead, mercury in packaging, lead, mercury, cadmium, hexavalent chromium,),  
**New York** (arsenic, cadmium, lead and mercury in children's products, toys, cadmium in jewelry, cadmium, hexavalent chromium, lead, mercury in packaging and in electronics equipment),  
**Pennsylvania** (lead in children's products, cosmetics, jewelry, toys, cadmium, hexavalent chromium, lead, mercury in packaging),  
**Rhode Island** (cadmium in jewelry, cadmium, hexavalent chromium, lead, mercury in packaging, mercury in electronics equipment),  
**South Carolina** (lead in children's products, cosmetics, jewelry, toys),  
**Tennessee** (lead in children's products, toys), Vermont (cadmium, hexavalent chromium, lead, mercury in packaging),  
**Virginia** (cadmium, hexavalent chromium, lead, mercury in packaging, mercury in electronics equipment),  
**Washington** (cadmium and lead in children's products, cosmetics, jewelry, toys, cadmium, hexavalent chromium, lead, mercury in packaging, mercury in electronics equipment)



**Wisconsin** (cadmium, hexavalent chromium, lead, mercury in packaging, mercury in electronics equipment).

US and states regulation of certain flame retardants

State	Type of product (1)	Type of FRs (2)	Concentration	Effective Date	Reference
California	Children's products, mattresses and upholstered furniture	* All FRs	1,000 ppm	January 1, 2020	<a href="#">Assembly Bill 2998</a>
Hawaii	Any product	* Penta-BDE * Octa-BDE	0,1% (1,000 ppm)	January 1, 2008	<a href="#">HB 2013</a>
Illinois	Any product	* Penta-BDE * Octa-BDE	0,1 % (1,000 ppm)	January 1, 2006	<a href="#">HB 2572</a>
Maine	Any product	* Penta-BDE * Octa-BDE	0,1 % (1,000 ppm)	January 1, 2006	<a href="#">H.P. 1312 - L.D. 1790</a>
	Residential upholstered furniture	* All FRs	0,1 % (1,000 ppm)	January 1, 2019	<a href="#">H.P 138 - L.D. 182</a>
Maryland	Any new product	* Penta-BDE * Octa-BDE	0,1 % (1,000 ppm)	October 1, 2008	<a href="#">HB 83</a>
	Products for children less than 3 years	* TCEP	0,1 % (1,000 ppm)	October 1, 2013	<a href="#">HB 99</a>
Michigan	Any product	* Penta-BDE	0,1 % (1,000 ppm)	June 1, 2006	<a href="#">HB 4406</a>
Minnesota	Any product	* Penta-BDE * Octa-BDE	0,1 % (1,000 ppm)	January 1, 2008	<a href="#">SF 2096</a>
	Children's products, and residential upholstered furniture	* TDCPP * TCEP * Dece-BDE * HBCD	1,000 ppm	July 1, 2019	<a href="#">SF 1215</a>
New York	Any product	* Penta-BDE * Octa-BDE	0,1 % (1,000 ppm)	January 1, 2006	<a href="#">SO7621</a>
	Products for children less than 3 years or under	* TDCPP * TCEP	Not specified	December 1, 2013	<a href="#">SO3703, A06195</a>
Oregon	Any product	* Penta-BDE * Octa-BDE * Deca-BDE	0,1 % (1,000 ppm)	January 1, 2011	<a href="#">SB 962, SB 596</a>
Rhode Island	Residential upholstered bedding and furniture	*Organohalogen FRs	100 ppm	July 1, 2019	<a href="#">H5082</a>
Vermont	Any product	* Penta-BDE * Octa-BDE	0,1 % (1,000 ppm)	July 1, 2010 (3)	<a href="#">S81</a>

State	Type of product (1)	Type of FRs (2)	Concentration	Effective Date	Reference
	Mattresses, upholstered furniture, plastic housing for TV's and computers, plastic shipping pallets, Children's products	Deca-BDE	0,1 % (1,000 ppm)	July 1, 2010	<a href="#">S81</a>
	Children's products	* TDCPP * TCEP	0,1 % (1,000 ppm)	July 1, 2014	<a href="#">S81</a>
Washington	Children's products and residential upholstered furniture	* TDCPP * TCEP * Deca-BDE * HBCD * Additive TBBPA	1,000 ppm	July 1, 2017	<a href="#">House of Bill 2545</a>
Washington D.C	Any product	* TDCPP * TCEP	0,1 % (1,000 ppm)	January 1, 2018	<a href="#">B21-0143</a>
	Children's products and residential upholstered furniture	* TDCPP * TCEP	0,1 % (1,000 ppm)	January 1, 2019	<a href="#">B21-0143</a>

**Proposition 65: Other chemicals listed with relevance to the materials referred to in this RSL**

Substance name	CAS RN
Aniline	62-53-3
Benzyl violet 4B	1694-09-3
Carbon black (airborne, unbound particles of respirable size)	1333-86-4
<a href="#">Cobalt metal as powder</a>	<a href="#">7440-48-4</a>
Ethylene oxide	75-21-8
Naphthalene	91-20-3
1,3-Propane sultone	1120-71-4
Trypan blue (commercial grade)	72-57-1
Hexachlorobenzene	118-74-1
Antimony oxide (Antimony trioxide)	1309-64-4
Dichloromethane (Methylene chloride)	75-09-2
N-Nitrosodimethylamine	62-75-9

**Biocides**

2,4,6-Trichlorophenol	88-06-2
Methyl bromide, as a structural fumigant	74-83-9

<b>Flame retardant</b>	
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slettet: Cobalt sulfat

... [1]

slettet: o-Phenylphenate, sodium

... [2]

Vinyl bromide	593-60-2
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## **Annex 14 - Checklist for laboratories**

### **Introduction**

This routine is to ensure qualified chemical test protocols and test results by selected and by NN, approved accredited independent test laboratories in selected countries of concern.

If there are published EN or EN ISO or ISO methods available always use that method and clearly report in the test protocol

If other methods are used e.g. in-house test methods, always answer carefully each section below.

In case the applied EN, EN ISO or ISO method is modified by the test laboratory, always report these modified procedures in the test report.

All test reports should be signed by an authorised person at the laboratory.

### **Testing**

For those chemical substances to be tested, where no official international standard test method exists, the test report should include the following:

#### **Sample preparation**

- Amount of specimen for preparation, weight and size
- procedure of extraction, solvents used, and equipment used for extraction e.g. Soxhlet

#### **Instrumental performance**

- instrument used e.g GC-MS etc.
- lab specific detection limit(s) where preferably LOQ (limit of quantification) are reported
- standard deviation in analytical results

#### **Other information of importance**

- describe modified procedures from applied established ISO/EN standard methods if available.
- always present test results in mg/kg
- description of the recalculation from mg/kg if the test result is presented in another unit e.g ppm, ppb, ug/kg etc

#### **Instruction to the laboratory**

- always present the actual test result of the analysis and not any letter combinations if not properly described e.g N/A
- if not detected, report always below the actual LOQ (< LOQ) values

**Side 35: [1] slettet      Stefan Posner 31.01.2023 14:15:00**

**Side 35: [2] slettet      Stefan Posner 31.01.2023 14:15:00**