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Product Name: [VS1053B-L](#) and [VS8053B-L \(LQFP48 RoHS\)](#)

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## 1.0 Description of threshold levels and short names

**Product Total Mass [mg]** = for Wafer Fab: weight of the wafer, for Assembly company: weight of the Integrated Circuit

**Weight (1)** = Report the **biggest content rate** (ppm) of the substance at the **homogeneous material level**.

Weight = weight of the substance in the homogeneous material that has the biggest content rate of the substance. Inform also the name of the homogeneous material.

Content rate [ppm] = Content rate of the substance in the homogeneous material that has the biggest ppm content of the substance.

**Example (RoHS):** Lead (Pb) content in lead frame plating [ppm] =  $10^6 * (\text{weight of Pb in the leadframe plating material}) / (\text{total weight of the leadframe plating material})$

Product Total Mass = 180 mg, weight of the lead frame plating = 3.0 mg and weight of Pb in the leadframe plating = 0.03 mg

then "Weight [mg]" -field data = "0.03mg" and "Content rate [ppm]" -field data = "10 000 ppm" ( $=0.03 \text{ mg} * 10^6 / 3.0 \text{ mg} = 1.0 \%$ )

other homogeneous materials (mold compound, lead frame, epoxy, bonding wire, die) do not have lead (Pb) or the content rate is below the RoHS threshold limit.

because RoHS threshold level is 0.1 % Weight (1) for Pb, then "Additional information..." -field data = "Lead frame plating = 3.0 mg. The Pb content in the Lead frame plating is above the Threshold Level"

**Weight (2)** = Report the total **weight** of the substance **in the product**.

Weight [mg] = total weight of the substance in the product.

Content rate [ppm] = Content rate of the substance in the product.

**Example (REACH):** Lead (Pb, included 27.6.2018 to SVHC), in case of previous example,

"Weight [mg]" -field data = "0.03 mg" and "Content rate [ppm]" -field data = "166,7 ppm" ( $=0.03 \text{ mg} * 10^6 / 180 \text{ mg} = 0.01667 \%$ )

and because REACH threshold level for the Pb is 0.1 % Weight (2), then "Weight [mg]", "Content rate [ppm]" and "Additional information..." -fields can be left empty.

**0.1 mass %** = 1000 ppm, applies also to 0.1 % Weight (1) and 0.1 % Weight (2)

**Intentionally added** = the substance is deliberately added or included to the product.

**Any content** = Not contain obviously OR under quantitation limit of accurate analytical method.

**NA** = Not Applicable.

**... or ...** = if there are two Threshold Levels, for example "Intentionally added or 0.1 % Weight (2)" then the both threshold levels need to be checked. Reporting is required if one or both thresholds are exceeded.

**2.0 RoHS**

RoHS 1 directive (2002/95/EC), RoHS 2 directive (2011/65/EU) and RoHS 2 amendment (2015/863).

Substance			If yes (Y), detailed information of contained substances		
Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Cadmium (Cd)	0.01 % Weight (1)	N			
Lead (Pb)	0.1 % Weight (1)	N			
Mercury (Hg)	0.1 % Weight (1)	N			
Hexavalent chromium (Cr <sup>6+</sup> )	0.1 % Weight (1)	N			
Polybrominated biphenyls (PBB)	0.1 % Weight (1)	N			
Polybrominated diphenyl ethers (PBDE)	0.1 % Weight (1)	N			
Bis(2-ethylhexyl) phthalate (DEHP)	0.1 % Weight (1)	N			
Butyl benzyl phthalate (BBP)	0.1 % Weight (1)	N			
Dibutyl phthalate (DBP)	0.1 % Weight (1)	N			
Diisobutyl phthalate (DIBP)	0.1 % Weight (1)	N			

### 3.0 REACH List of Substances of Very High Concern (SVHC) – page 1 of 15

<https://echa.europa.eu/candidate-list-table>

Number of substances on the Candidate List: 253 (last updated: 4.2. 2026)

Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Date of inclusion to SVHC 28.10.2008					
Triethyl arsenate	0.1 % Weight (2)	N			EC Number: 427-700-2, CAS Number: 15606-95-8. Article 57(a)
Anthracene	0.1 % Weight (2)	N			EC Number: 204-371-1 CAS Number: 120-12-7. PBT substance according to Article 57 (d)
4,4'-Diaminodiphenylmethane (MDA)	0.1 % Weight (2)	N			EC Number: 202-974-4 CAS number: 101-77-9. Article 57(a)
Dibutyl phthalate (DBP)	0.1 % Weight (2)	N			EC Number: 201-557-4 CAS number: 84-74-2. Article 57 (c)
Cobalt dichloride	0.1 % Weight (2)	N			EC number: 231-589-4 CAS number: 7646-79-9. Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Diarsenic Pentaoxide	0.1 % Weight (2)	N			EC Number: 215-116-9 CAS number: 1303-28-2. Article 57 (a)
Diarsenic Trioxide	0.1 % Weight (2)	N			EC Number: 215-481-4 CAS number: 1327-53-3. Article 57 (a)
Sodium dichromate	0.1 % Weight (2)	N			EC number: 234-190-3 CAS number: 10588-01-9 (anhydrous) 7789-12-0 (dihydrate). Article 57(a), (b) and (c)
5-tert-butyl – 2,4,6 – trinitro-m-xylene (musk xylene)	0.1 % Weight (2)	N			EC Number: 201-329-4 CAS number: 81-15-2. Article 57(e)
Bis(2-ethylhexyl)phthalate (DEHP)	0.1 % Weight (2)	N			EC Number: 204-211-0 CAS number: 117-81-7. Article 57 (c), Equivalent level of concern having probable serious effects to the environment (Article 57 f); Toxic for reproduction (article 57c)
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	0.1 % Weight (2)	N			EC Number: 221-695-9, 247-148-4 CAS number: 3194-55-6, 25637-99-4 Names of the major diastereoisomers identified: alpha-hexabromocyclododecane CAS No 134237-50-6 beta-hexabromocyclododecane CAS No 134237-51-7 gamma-hexabromocyclododecane CAS No 134237-52-8. Article 57 (d)
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	0.1 % Weight (2)	N			EC Number: 287-476-5 CAS number: 85535-84-8. Article 57 (d and e)
Bis(tributyltin) oxide (TBTO)	0.1 % Weight (2)	N			EC Number: 200-268-0 CAS number: 56-35-9. Article 57 (d)
Lead hydrogen arsenate	0.1 % Weight (2)	N			EC Number: 232-064-2 CAS number: 7784-40-9. Article 57 (a and c)
Benzyl butyl phthalate (BBP)	0.1 % Weight (2)	N			EC Number: 201-622-7 CAS number: 85-68-7. Article 57 (c)
Date of inclusion to SVHC 13.1.2010					
Anthracene oil	0.1 % Weight (2)	N			EC number: 292-602-7 CAS number: 90640-80-5. Carcinogenic (see Detail 1) below), PBT and vPvB (articles 57a, 57d and 57e).
Anthracene oil, anthracene-low	0.1 % Weight (2)	N			EC number:292-604-8 CAS number: 90640-82-7. Carcinogenic (see Detail 2), mutagenic (see Detail 3 below), PBT and vPvB (articles 57a, 57b, 57d and 57e)
Anthracene oil, anthracene paste	0.1 % Weight (2)	N			EC number:292-603-2 CAS number: 90640-81-6. Carcinogenic (see Detail 2), mutagenic (see Detail 3 below), PBT and vPvB (articles 57a, 57b, 57d and 57e)
Anthracene oil, anthracene paste, anthracene fraction	0.1 % Weight (2)	N			EC number: 295-275-9 CAS number: 91995-15-2. Carcinogenic (see Detail 2), mutagenic (see Detail 3 below), PBT and vPvB (articles 57a, 57b, 57d and 57e)
Anthracene oil, anthracene paste, distn. Lights	0.1 % Weight (2)	N			EC number: 295-278-5 CAS number: 91995-17-4. Carcinogenic (see Detail 2), mutagenic (see Detail 3 below), PBT and vPvB (articles 57a, 57b, 57d and 57e)

Detail 1) The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5)

Detail 2) The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5) and less than 0,1 % w/w benzene (EINECS No 200-753-7).

Detail 3) The substance does not meet the criteria for identification as a mutagen in situations where it contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

## REACH List of Substances of Very High Concern (SVHC) – page 2 of 15

Substance			If yes (Y), detailed information of contained substances		
Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Diisobutyl phthalate (DIBP)	0.1 % Weight (2)	N			EC number: 201-553-2 CAS number: 84-69-5. Toxic for reproduction (article 57c)
2,4-Dinitrotoluene	0.1 % Weight (2)	N			EC number: 204-450-0 CAS number: 121-14-2, Carcinogenic (article 57a)
Lead chromate	0.1 % Weight (2)	N			EC number: 231-846-0 CAS number: 7758-97-6. Carcinogenic and toxic for reproduction (articles 57a and c)
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	0.1 % Weight (2)	N			EC number: 235-759-9 CAS number: 12656-85-8. Carcinogenic and toxic for reproduction (articles 57a and c)
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	0.1 % Weight (2)	N			EC number: 215-693-7 CAS number: 1344-37-2. Carcinogenic and toxic for reproduction (articles 57a and c)
Pitch, coal tar, high temp.	0.1 % Weight (2)	N			EC number: 266-028-2 CAS number: 65996-93-2. Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
Tris(2-chloroethyl)phosphate	0.1 % Weight (2)	N			EC number: 204-118-5 CAS number: 115-96-8. Toxic for reproduction (article 57c)
<a href="#">Date of inclusion to SVHC 30.3.2010</a>					
Acrylamide	0.1 % Weight (2)	N			EC number: 201-173-7 CAS number: 79-06-1. Carcinogenic and mutagenic (articles 57 a and 57 b)
<a href="#">Date of inclusion to SVHC 18.6.2010</a>					
Trichloroethylene	0.1 % Weight (2)	N			EC number: 201-167-4 CAS number: 79-01-6. Carcinogenic (article 57 a)
Boric acid	0.1 % Weight (2)	N			EC numbers: 233-139-2, 234-343-4 CAS numbers: 10043-35-3, 11113-50-1. Toxic for reproduction (article 57 c)
Disodium tetraborate, anhydrous	0.1 % Weight (2)	N			CAS numbers: 1303-96-4, 1330-43-4, 12179-04-3. Toxic for reproduction (article 57 c)
Tetraboron disodium heptaoxide, hydrate	0.1 % Weight (2)	N			EC number: 235-541-3 CAS number: 12267-73-1. Toxic for reproduction (article 57 c)
Potassium dichromate	0.1 % Weight (2)	N			EC number: 231-906-6 CAS number: 7778-50-9. Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
Ammonium dichromate	0.1 % Weight (2)	N			EC number: 232-143-1 CAS number: 7789-09-5. Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
Potassium chromate	0.1 % Weight (2)	N			EC number: 232-140-5 CAS number: 7789-00-6. Carcinogenic and mutagenic (articles 57 a and 57 b).
Sodium chromate	0.1 % Weight (2)	N			EC number: 231-889-5 CAS number: 7775-11-3. Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
<a href="#">Date of inclusion to SVHC 15.12.2010</a>					
Cobalt(II) sulphate	0.1 % Weight (2)	N			EC number: 233-334-2 CAS number: 10124-43-3. Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Cobalt(II) dinitrate	0.1 % Weight (2)	N			EC number: 233-402-1 CAS number: 10141-05-6 . Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Cobalt(II) carbonate	0.1 % Weight (2)	N			EC number: 208-169-4 CAS number: 513-79-1. Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Cobalt(II) diacetate	0.1 % Weight (2)	N			EC number: 200-755-8 CAS number: 71-48-7. Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Chromium trioxide	0.1 % Weight (2)	N			EC number: 215-607-8 CAS number: 1333-82-0. Carcinogenic and mutagenic (articles 57 a and 57 b)
2-Methoxyethanol	0.1 % Weight (2)	N			EC number: 203-713-7 CAS number: 109-86-4. Toxic for reproduction (article 57c)
2-Ethoxyethanol	0.1 % Weight (2)	N			EC number: 203-804-1 CAS number: 110-80-5. Toxic for reproduction (article 57c)

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Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Acids generated from chromium trioxide and their oligomers	0.1 % Weight (2)	N			a) Chromic acid, b) Oligomers of chromic acid and dichromic acid, c) Dichromic acid. EC number: 231-801-5, -, and 236-881-5, CAS numbers: 7738-94-5, -, and 13530-68-2. Carcinogenic (article 57a)
Date of inclusion to SVHC 20.6.2011					
2-Ethoxyethyl acetate	0.1 % Weight (2)	N			EC Number: 203-839-2 CAS number: 111-15-9. Toxic for reproduction (article 57c)
Strontium chromate	0.1 % Weight (2)	N			EC Number: 232-142-6 CAS number: 7789-06-2. Carcinogenic (article 57a)
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	0.1 % Weight (2)	N			EC Number: 271-084-6 CAS number: 68515-42-4. Toxic for reproduction (article 57c)
Hydrazine	0.1 % Weight (2)	N			EC Number: 206-114-9 CAS number: 302-01-2 / 7803-57-8. Carcinogenic (article 57a)
1-Methyl-2-pyrrolidone (NMP)	0.1 % Weight (2)	N			EC Number: 212-828-1 CAS number: 872-50-4. Toxic for reproduction (article 57c)
1,2,3-Trichloropropane	0.1 % Weight (2)	N			EC Number: 202-486-1 CAS number: 96-18-4. Carcinogenic and toxic for reproduction (articles 57 a and 57 c).
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	0.1 % Weight (2)	N			EC Number: 276-158-1 CAS number: 71888-89-6. Toxic for reproduction (article 57c)
Date of inclusion to SVHC 19.12.2011					
4-(1,1,3,3-tetramethylbutyl)phenol	0.1 % Weight (2)	N			EC Number: 205-426-2, CAS number: 140-66-9, Endocrine disrupting properties (Article 57(f) - environment)
N,N-dimethylacetamide	0.1 % Weight (2)	N			EC Number: 204-826-4, CAS number: 127-19-5, Toxic for reproduction (article 57 c)
Phenolphthalein	0.1 % Weight (2)	N			EC Number: 201-004-7, CAS number: 77-09-8, Carcinogenic (article 57 a)
Lead diazide, Lead azide	0.1 % Weight (2)	N			EC Number: 236-542-1, CAS number: 13424-46-9, Toxic for reproduction (article 57 c),
Lead dipicrate	0.1 % Weight (2)	N			EC Number: 229-335-2, CAS number: 6477-64-1, Toxic for reproduction (article 57 c)
1,2-dichloroethane	0.1 % Weight (2)	N			EC Number: 203-458-1, CAS number: 107-06-2, Carcinogenic (article 57 a)
Calcium arsenate	0.1 % Weight (2)	N			EC Number: 231-904-5, CAS number: 7778-44-1, Carcinogenic (article 57 a)
Dichromium tris(chromate)	0.1 % Weight (2)	N			EC Number: 246-356-2, CAS number: 24613-89-6, Carcinogenic (article 57 a)
2-Methoxyaniline; o-Anisidine	0.1 % Weight (2)	N			EC Number: 201-963-1, CAS number: 90-04-0, Carcinogenic (article 57 a)
Pentazinc chromate octahydroxide	0.1 % Weight (2)	N			EC Number: 256-418-0, CAS number: 49663-84-5, Carcinogenic (article 57 a)
Arsenic acid	0.1 % Weight (2)	N			EC Number: 231-901-9, CAS number: 7778-39-4, Carcinogenic (article 57 a)
Aluminosilicate Refractory Ceramic Fibres	0.1 % Weight (2)	N			Carcinogenic (article 57a). 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.
Potassium hydroxyoctaoxidizincate-dichromate	0.1 % Weight (2)	N			EC Number: 234-329-8, CAS number: 11103-86-9, Carcinogenic (article 57 a)
Lead styphnate	0.1 % Weight (2)	N			EC Number: 239-290-0, CAS number: 15245-44-0, Toxic for reproduction (article 57 c)

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Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Formaldehyde, oligomeric reaction products with aniline	0.1 % Weight (2)	N			EC Number: 500-036-1, CAS number: 25214-70-4, Carcinogenic (article 57 a)
Trilead diarsenate	0.1 % Weight (2)	N			EC Number: 222-979-5, CAS number: 3687-31-8, Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Bis(2-methoxyethyl) phthalate	0.1 % Weight (2)	N			EC Number: 204-212-6, CAS number: 117-82-8, Toxic for reproduction (article 57 c)
Bis(2-methoxyethyl) ether	0.1 % Weight (2)	N			EC Number: 203-924-4, CAS number: 111-96-6, Toxic for reproduction (article 57 c)
Zirconia Aluminosilicate Refractory Ceramic Fibres	0.1 % Weight (2)	N			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 . Carcinogenic (article 57 a)
2,2'-dichloro-4,4'-methylenedianiline	0.1 % Weight (2)	N			EC Number: 202-918-9, CAS number: 101-14-4, Carcinogenic (article 57 a)
<a href="#">Date of inclusion to SVHC 18.6.2012</a>					
α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	0.1 % Weight (2)	N			With ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2). EC Number: 229-851-8, CAS number: 6786-83-0, Carcinogenic (Article 57a)
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	0.1 % Weight (2)	N			EC Number: 202-959-2, CAS number: 101-61-1, Carcinogenic (Article 57a)
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	0.1 % Weight (2)	N			EC Number: 423-400-0, CAS number: 59653-74-6, Mutagenic (Article 57b)
Diboron trioxide	0.1 % Weight (2)	N			EC Number: 215-125-8, CAS number: 1303-86-2, Toxic for reproduction (Article 57 c)
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	0.1 % Weight (2)	N			EC Number: 203-977-3 , CAS number: 112-49-2, Toxic for reproduction (Article 57 c)
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	0.1 % Weight (2)	N			With ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2). EC Number: 209-218-2, CAS number: 561-41-1, Carcinogenic (Article 57a)
Lead(II) bis(methanesulfonate)	0.1 % Weight (2)	N			EC Number: 401-750-5, CAS number: 17570-76-2, Toxic for reproduction (Article 57 c)
Formamide	0.1 % Weight (2)	N			EC Number: 200-842-0, CAS number: 75-12-7, Toxic for reproduction (Article 57 c)
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	0.1 % Weight (2)	N			With ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2). EC Number: 208-953-6, CAS number: 548-62-9, Carcinogenic (Article 57a)
[4-[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylenecyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	0.1 % Weight (2)	N			With ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2). EC Number: 219-943-6, CAS number: 2580-56-5, Carcinogenic (Article 57a)

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Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	0.1 % Weight (2)	N			EC Number: 203-794-9, CAS number: 110-71-4, Toxic for reproduction (Article 57 c)
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	0.1 % Weight (2)	N			EC Number: 219-514-3, CAS number: 2451-62-9, Mutagenic (Article 57b)
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	0.1 % Weight (2)	N			EC Number: 202-027-5, CAS number: 90-94-8, Carcinogenic (Article 57a)
Date of inclusion to SVHC 19.12.2012					
Hexahydromethylphthalic anhydride	0.1 % Weight (2)	N			Including cis- and trans- stereo isomeric forms and all possible combinations of the isomers. EC Number: 247-094-1, 243-072-0, 256-356-4, 260-566-1, CAS number: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9, Respiratory sensitising properties to human health (Article 57 f)
6-methoxy-m-toluidine (p-cresidine)	0.1 % Weight (2)	N			EC Number: 204-419-1, CAS number: 120-71-8, Carcinogenic (Article 57a)
Cyclohexane-1,2-dicarboxylic anhydride	0.1 % Weight (2)	N			All possible combinations of the cis- and trans-isomers. EC Number: 201-604-9, 236-086-3, 238-009-9, CAS number: 85-42-7, 13149-00-3, 14166-21-3, Respiratory sensitising properties to human health (Article 57 f)
Pyrochlore, antimony lead yellow	0.1 % Weight (2)	N			EC Number: 232-382-1, CAS number: 8012-00-8, Toxic for reproduction (Article 57 c)
Henicosafuoroundecanoic acid	0.1 % Weight (2)	N			EC Number: 218-165-4, CAS number: 2058-94-8, vPvB (Article 57 e)
4-Aminoazobenzene	0.1 % Weight (2)	N			EC Number: 200-453-6, CAS number: 60-09-3, Carcinogenic (Article 57 a)
Silicic acid, lead salt	0.1 % Weight (2)	N			EC Number: 234-363-3, CAS number: 11120-22-2, Toxic for reproduction (Article 57 c)
Lead titanium zirconium oxide	0.1 % Weight (2)	N			EC Number: 235-727-4, CAS number: 12626-81-2, Toxic for reproduction (Article 57 c)
Lead monoxide (lead oxide)	0.1 % Weight (2)	N			EC Number: 215-267-0, CAS number: 1317-36-8, Toxic for reproduction (Article 57 c)
o-Toluidine	0.1 % Weight (2)	N			EC Number: 202-429-0, CAS number: 95-53-4, Carcinogenic (Article 57a)
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	0.1 % Weight (2)	N			ZOLDINE MS-PLUS, EC Number: 421-150-7, CAS number: 143860-04-2, Toxic for reproduction (Article 57 c)
Dibutyltin dichloride (DBTC)	0.1 % Weight (2)	N			EC Number: 211-670-0, CAS number: 683-18-1, Toxic for reproduction (Article 57 c)
Lead bis(tetrafluoroborate)	0.1 % Weight (2)	N			EC Number: 237-486-0, CAS number: 13814-96-5, Toxic for reproduction (Article 57 c)
Lead dinitrate	0.1 % Weight (2)	N			EC Number: 233-245-9, CAS number: 10099-74-8, Toxic for reproduction (Article 57 c)
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped	0.1 % Weight (2)	N			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. EC Number: 272-271-5, CAS number: 68784-75-8, Toxic for reproduction (Article 57 c)
bis(carbonate)dihydroxide	0.1 % Weight (2)	N			EC Number: 215-290-6, CAS number: 1319-46-6, Toxic for reproduction (Article 57 c)
4,4'-methylenedi-o-toluidine	0.1 % Weight (2)	N			EC Number: 212-658-8, CAS number: 838-88-0, Carcinogenic (Article 57a)
Diethyl sulphate	0.1 % Weight (2)	N			EC Number: 200-589-6, CAS number: 64-67-5, Carcinogenic (Article 57a); Mutagenic (Article 57b)
Dimethyl sulphate	0.1 % Weight (2)	N			EC Number: 201-058-1, CAS number: 77-78-1, Carcinogenic (Article 57a)
N,N-dimethylformamide	0.1 % Weight (2)	N			EC Number: 200-679-5, CAS number: 68-12-2, Toxic for reproduction (Article 57 c)
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	0.1 % Weight (2)	N			CAS number: 9002-93-1, 2315-61-9, 2497-59-8, 9036-19-5 and 2315-67-5. Endocrine disrupting properties (Article 57(f) - environment)

## REACH List of Substances of Very High Concern (SVHC) – page 6 of 15

Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	0.1 % Weight (2)	N			CAS numbers: 17404-66-9, 52427-13-1, 84852-15-3, 142731-63-3, 186825-36-5, 30784-30-6, 104-40-5, 26543-97-5, 186825-39-8, 521947-27-3, 25154-52-3, 90481-04-2 and 11066-49-2. Endocrine disrupting properties (Article 57(f) - environment)
Furan	0.1 % Weight (2)	N			EC Number: 203-727-3, CAS number: 110-00-9, Carcinogenic (Article 57a)
Lead oxide sulfate	0.1 % Weight (2)	N			EC Number: 234-853-7, CAS number: 12036-76-9, Toxic for reproduction (Article 57 c)
Lead titanium trioxide	0.1 % Weight (2)	N			EC Number: 235-038-9, CAS number: 12060-00-3, Toxic for reproduction (Article 57 c)
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	0.1 % Weight (2)	N			EC Number: 214-604-9, CAS number: 1163-19-5, PBT (Article 57 d); vPvB (Article 57 e)
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	0.1 % Weight (2)	N			EC Number: 201-861-7, CAS number: 88-85-7, Toxic for reproduction (Article 57 c)
1,2-Diethoxyethane	0.1 % Weight (2)	N			EC Number: 211-076-1, CAS number: 629-14-1, Toxic for reproduction (Article 57 c)
N-methylacetamide	0.1 % Weight (2)	N			EC Number: 201-182-6, CAS number: 79-16-3, Toxic for reproduction (Article 57 c)
Tetralead trioxide sulphate	0.1 % Weight (2)	N			EC Number: 235-380-9, CAS number: 12202-17-4, Toxic for reproduction (Article 57 c)
Acetic acid, lead salt, basic	0.1 % Weight (2)	N			EC Number: 257-175-3, CAS number: 51404-69-4, Toxic for reproduction (Article 57 c)
[Phthalato(2-)]dioxotrilead	0.1 % Weight (2)	N			EC Number: 273-688-5, CAS number: 69011-06-9, Toxic for reproduction (Article 57 c)
Tetraethyllead	0.1 % Weight (2)	N			EC Number: 201-075-4, CAS number: 78-00-2, Toxic for reproduction (Article 57 c)
N-pentyl-isopentyl phthalate	0.1 % Weight (2)	N			CAS number: 776297-69-9, Toxic for reproduction (Article 57 c)
Pentalead tetraoxide sulphate	0.1 % Weight (2)	N			EC Number: 235-067-7, CAS number: 12065-90-6, Toxic for reproduction (Article 57 c)
Heptacosafuorotetradecanoic acid	0.1 % Weight (2)	N			EC Number: 206-803-4, CAS number: 376-06-7 , vPvB (Article 57 e)
Tricosafuorododecanoic acid	0.1 % Weight (2)	N			EC Number: 206-203-2, CAS number: 307-55-1, vPvB (Article 57 e)
1-bromopropane (n-propyl bromide)	0.1 % Weight (2)	N			EC Number: 203-445-0, CAS number: 106-94-5, Toxic for reproduction (Article 57 c)
Dioxobis(stearato)trilead	0.1 % Weight (2)	N			EC Number: 235-702-8, CAS number: 12578-12-0, Toxic for reproduction (Article 57 c)
Pentacosafuorotridecanoic acid	0.1 % Weight (2)	N			EC Number: 276-745-2, CAS number: 72629-94-8, vPvB (Article 57 e)
Methoxyacetic acid	0.1 % Weight (2)	N			EC Number: 210-894-6, CAS number: 625-45-6, Toxic for reproduction (Article 57 c)
Methyloxirane (Propylene oxide)	0.1 % Weight (2)	N			EC Number: 200-879-2, CAS number: 75-56-9, Carcinogenic (Article 57a); Mutagenic (Article 57b)
Trilead dioxide phosphonate	0.1 % Weight (2)	N			EC Number: 235-252-2, CAS number: 12141-20-7, Toxic for reproduction (Article 57 c)
o-aminoazotoluene	0.1 % Weight (2)	N			EC Number: 202-591-2, CAS number: 97-56-3, Carcinogenic (Article 57a)
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	0.1 % Weight (2)	N			EC Number: 202-453-1, CAS number: 95-80-7, Carcinogenic (Article 57a)
Diisopentyl phthalate	0.1 % Weight (2)	N			EC Number: 210-088-4, CAS number: 605-50-5, Toxic for reproduction (Article 57 c)
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	0.1 % Weight (2)	N			EC Number: 284-032-2, CAS number: 84777-06-0, Toxic for reproduction (Article 57 c)

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Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Biphenyl-4-ylamine	0.1 % Weight (2)	N			EC Number: 202-177-1, CAS number: 92-67-1, Carcinogenic (Article 57a)
Fatty acids, C16-18, lead salts	0.1 % Weight (2)	N			EC Number: 292-966-7, CAS number: 91031-62-8, Toxic for reproduction (Article 57 c)
Orange lead (lead tetroxide)	0.1 % Weight (2)	N			EC Number: 215-235-6, CAS number: 1314-41-6, Toxic for reproduction (Article 57 c)
4,4'-oxydianiline and its salts	0.1 % Weight (2)	N			EC Number: 202-977-0 and its salts, CAS number: 101-80-4 and its salts, Carcinogenic (Article 57a); Mutagenic (Article 57b)
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	0.1 % Weight (2)	N			EC Number: 204-650-8, CAS number: 123-77-3, Respiratory sensitising properties to human health (Article 57 f)
Sulfurous acid, lead salt, dibasic	0.1 % Weight (2)	N			EC Number: 263-467-1, CAS number: 62229-08-7, Toxic for reproduction (Article 57 c)
Lead cyanamidate	0.1 % Weight (2)	N			EC Number: 244-073-9, CAS number: 20837-86-9, Toxic for reproduction (Article 57 c)
<a href="#">Date of inclusion to SVHC 20.6.2013</a>					
Cadmium	0.1 % Weight (2)	N			EC Number: 231-152-8, CAS Number: 7440-43-9, Carcinogenic (Article 57a); Specific target organ toxicity after repeated exposure (Article 57 f - human health)
Ammonium pentadecafluorooctanoate (APFO)	0.1 % Weight (2)	N			EC Number: 223-320-4, CAS Number: 3825-26-1, Toxic for reproduction (Article 57 c); PBT (Article 57 d)
4-Nonylphenol, branched and linear, ethoxylated	0.1 % Weight (2)	N			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, CAS Numbers: 104-35-8, 1119449-37-4, 1119449-38-5, 127087-87-0, 14409-72-4 25537-10-08, 20427-84-3, 20636-48-0, 26027-38-3 26264-02-08 26571-11-09, 27176-93-8 27177-03-03 27177-05-05 27177-08-08, 27942-27-4, 27986-36-3, 34166-38-6, 37205-87-1, 42173-90-0, 57321-10-5, 65455-69-8, 68412-54-4, 68412-54-4, 7311-27-5, 85005-55-6, 9016-45-9 and 91648-64-5. Endocrine disrupting properties (Article 57 f - environment)
Pentadecafluorooctanoic acid (PFOA)	0.1 % Weight (2)	N			EC Number: 206-397-9, CAS Number: 335-67-1, Toxic for reproduction (Article 57 c); PBT (Article 57 d)
Dipentyl phthalate (DPP)	0.1 % Weight (2)	N			EC Number: 205-017-9, CAS Number: 131-18-0, Toxic for reproduction (Article 57 c);
Cadmium oxide	0.1 % Weight (2)	N			EC Number: 215-146-2, CAS Number: 1306-19-0, Carcinogenic (Article 57a); Specific target organ toxicity after repeated exposure (Article 57 f - human health)
<a href="#">Date of inclusion to SVHC 16.12.2013</a>					
Cadmium sulphide	0.1 % Weight (2)	N			EC Number: 215-147-8, CAS Number: 1306-23-6, Carcinogenic (Article 57a); Specific target organ toxicity after repeated exposure (Article 57 f - human health)
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)	0.1 % Weight (2)	N			EC Number: 217-710-3, CAS Number: 1937-37-7, Carcinogenic (Article 57a);
Dihexyl phthalate (DnHP)	0.1 % Weight (2)	N			EC Number: 201-559-5, CAS Number: 84-75-3, Toxic for reproduction (Article 57 c).
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	0.1 % Weight (2)	N			EC Number: 202-506-9, CAS Number: 96-45-7, Toxic for reproduction (Article 57 c).
Trixylyl phosphate	0.1 % Weight (2)	N			EC Number: 246-677-8, CAS Number: 25155-23-1, Toxic for reproduction (Article 57 c).
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	0.1 % Weight (2)	N			EC Number: 209-358-4, CAS Number: 573-58-0, Carcinogenic (Article 57a);

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Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Lead di(acetate)	0.1 % Weight (2)	N			EC Number: 206-104-4, CAS Number: 301-04-2, Toxic for reproduction (Article 57 c).
Date of inclusion to SVHC 16.6.2014					
Cadmium chloride	0.1 % Weight (2)	N			EC Number: 233-296-7, CAS Number: 10108-64-2, Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Specific target organ toxicity after repeated exposure (Article 57 f - human health)
Sodium peroxometaborate	0.1 % Weight (2)	N			EC Number: 231-556-4, CAS Number: 7632-04-4, Toxic for reproduction (Article 57 c).
Sodium perborate; perboric acid, sodium salt	0.1 % Weight (2)	N			CAS numbers: 11138-47-9, 15120-21-5, 125022-34-6, 90568-23-3, 13517-20-9, Toxic for reproduction (Article 57 c).
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	0.1 % Weight (2)	N			EC Number: 271-093-5, CAS Number: 68515-50-4, Toxic for reproduction (Article 57 c).
Date of inclusion to SVHC 17.12.2014					
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)	0.1 % Weight (2)	N			Toxic for reproduction (Article 57 c).
Cadmium sulphate	0.1 % Weight (2)	N			EC Number: 233-331-6, CAS number: 10124-36-4 and 31119-53-6 ,Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Specific target organ toxicity after repeated exposure (Article 57 f - human health)
Cadmium fluoride	0.1 % Weight (2)	N			EC Number: 232-222-0, CAS number: 7790-79-6, Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Specific target organ toxicity after repeated exposure (Article 57 f - human health)
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	0.1 % Weight (2)	N			EC Number: 239-622-4, CAS number: 15571-58-1, Toxic for reproduction (Article 57 c).
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	0.1 % Weight (2)	N			EC Number: 223-346-6, CAS number: 3846-71-7, PBT (Article 57 d); vPvB (Article 57 e)
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	0.1 % Weight (2)	N			EC Number: 247-384-8, CAS number: 25973-55-1 ,PBT (Article 57 d); vPvB (Article 57 e)
Date of inclusion to SVHC 15.6.2015					
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]	0.1 % Weight (2)	N			Covering any of the individual stereoisomers of [1] and [2] or any combination thereof. vPvB (Article 57 e)
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	0.1 % Weight (2)	N			With ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5). EC Numbers: 271-094-0 and 272-013-1, CAS numbers: 68515-51-5 and 68648-93-1, Toxic for reproduction (Article 57 c)

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Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Date of inclusion to SVHC 17.12.2015					
Perfluorononan-1-oic-acid and its sodium and ammonium salts	0.1 % Weight (2)	N			CAS Number: 375-95-1, 21049-39-8, 4149-60-4, Toxic for reproduction (Article 57 c) PBT (Article 57 d)
Nitrobenzene	0.1 % Weight (2)	N			EC Number: 202-716-0, CAS Number: 98-95-3, Toxic for reproduction (Article 57 c)
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	0.1 % Weight (2)	N			EC Number: 253-037-1, CAS Number: 36437-37-3, vPvB (Article 57 e)
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	0.1 % Weight (2)	N			EC Number: 223-383-8, CAS Number: 3864-99-1, vPvB (Article 57 e)
1,3-propanesultone	0.1 % Weight (2)	N			EC Number: 214-317-9, CAS Number: 1120-71-4, Carcinogenic (Article 57 a)
Date of inclusion to SVHC 20.6.2016					
Benzo[def]chrysene, Benzo[a]pyrene, BaP	0.1 % Weight (2)	N			EC Number: 200-028-5, CAS Number: 50-32-8, Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57 d) vPvB (Article 57 e).
Date of inclusion to SVHC 12.1.2017					
4,4'-isopropylidenediphenol	0.1 % Weight (2)	N			EC Number: 201-245-8, CAS Number: 80-05-7, Common synonyms: BPA, Bisphenol A. Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57 f - environment and human health)
4-Heptylphenol, branched and linear	0.1 % Weight (2)	N			Substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof. CAS numbers: 7088-02-03, 1987-50-4, 37872-24-5, 30784-31-7, 911371-06-7, 854904-93-1, 911371-07-8, 71945-81-8, 857629-71-1, 861010-65-3, 30784-32-8, 6465-74-3, 6863-24-7, 6465-71-0, 911370-98-4, 102570-52-5, 1139800-98-8, 100532-36-3, 1824346-00-0, 26720-02-08, 30784-27-1, 861011-60-1, 33104-11-9, 7325-06-04 and 854904-92-0. Endocrine disrupting properties (Article 57 f - environment)
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	0.1 % Weight (2)	N			CAS numbers: 335-76-2, 3108-42-7 and 3830-45-3. Toxic for reproduction (Article 57c) PBT (Article 57 d).
p-(1,1-dimethylpropyl)phenol	0.1 % Weight (2)	N			EC Number: 201-280-9, CAS Number: 80-46-6, Endocrine disrupting properties (Article 57 f - environment)
Date of inclusion to SVHC 7.7.2017					
Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	0.1 % Weight (2)	N			CAS numbers: 355-46-4, 68259-08-5, 70225-16-0, 3871-99-6, 1310480-24-0, 1310480-27-3, 1310480-28-4, 1329995-45-0, 1329995-69-8, 144116-10-9, 1462414-59-0, 153443-35-7, 189274-31-5, 202189-84-2, 213740-81-9, 341548-85-4, 350836-93-0, 41184-65-0, 41242-12-0, 421555-73-9, 421555-74-0, 425670-70-8, 55120-77-9, 70136-72-0, 72033-41-1, 82382-12-5, 866621-50-3, 910606-39-2, 911027-68-4, 911027-69-5, 92011-17-1, 928049-42-7, 1187817-57-7, 108427-55-0, 108427-54-9, 1000597-52-3 and 341035-71-0. vPvB (Article 57e)
Date of inclusion to SVHC 15.1.2018					
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	0.1 % Weight (2)	N			With ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl). CAS number: 1471311-26-8, 93925-00-9. Endocrine disrupting properties (Article 57 f - environment)
Chrysene	0.1 % Weight (2)	N			EC Number: 205-923-4, CAS number: 218-01-9. Member of Polycyclic-aromatic hydrocarbons (PAH). Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)

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Substance			If yes (Y), detailed information of contained substances		
Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Cadmium nitrate	0.1 % Weight (2)	N			EC Number: 233-710-6, CAS number: 10325-94-7, Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57 f - human health).
Cadmium hydroxide	0.1 % Weight (2)	N			EC number: 244-168-5, CAS number: 21041-95-2, Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57 f - human health)
Cadmium carbonate	0.1 % Weight (2)	N			EC Number: 208-168-9, CAS number: 513-78-0, Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57 f - human health)
Benz[a]anthracene (BaA)	0.1 % Weight (2)	N			EC Number: 200-280-6, CAS number: 56-55-3, Member of Polycyclic-aromatic hydrocarbons (PAH) group. Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) covering any of its individual anti- and syn-isomers or any combination thereof	0.1 % Weight (2)	N			vPvB (Article 57e)
Date of inclusion to SVHC 27.6.2018					
Terphenyl, hydrogenated	0.1 % Weight (2)	N			EC Number: 262-967-7, CAS number: 61788-32-7, vPvB (Article 57e)
Octamethylcyclotetrasiloxane, (D4)	0.1 % Weight (2)	N			EC Number: 209-136-7, CAS number: 556-67-2, PBT (Article 57d) vPvB (Article 57e)
Lead	0.1 % Weight (2)	N			EC Number: 231-100-4, CAS number: 7439-92-1, Toxic for reproduction (Article 57c)
Ethylenediamine, (EDA)	0.1 % Weight (2)	N			EC Number: 203-468-6, CAS number: 107-15-3, Respiratory sensitising properties (Article 57 f - human health)
Dodecamethylcyclohexasiloxane, (D6)	0.1 % Weight (2)	N			EC Number: 208-762-8, CAS number: 540-97-6, PBT (Article 57d) vPvB (Article 57e)
Disodium octaborate	0.1 % Weight (2)	N			EC Number: 234-541-0, CAS number: 12008-41-2, Toxic for reproduction (Article 57c)
Dicyclohexyl phthalate, (DCHP)	0.1 % Weight (2)	N			EC Number: 201-545-9, CAS number: 84-61-7, Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57 f - human health)
Decamethylcyclopentasiloxane, (D5)	0.1 % Weight (2)	N			EC Number: 208-764-9, CAS number: 541-02-6, PBT (Article 57d) vPvB (Article 57e)
Benzo[ghi]perylene	0.1 % Weight (2)	N			Substance is a Polycyclic Aromatic Hydrocarbon (PAH). EC Number: 205-883-8, CAS number: 191-24-2, PBT (Article 57d) vPvB (Article 57e)
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	0.1 % Weight (2)	N			Trimellitic anhydride, TMA. EC Number: 209-008-0, CAS number: 552-30-7, Respiratory sensitising properties (Article 57 f - human health)
Date of inclusion to SVHC 15.1.2019					
Pyrene	0.1 % Weight (2)	N			EC Number: 204-927-3, CAS number: 129-00-0. PBT (Article 57d) vPvB (Article 57e)
Phenanthrene	0.1 % Weight (2)	N			EC Number: 201-581-5, CAS number: 85-01-8, vPvB (Article 57e)
Fluoranthene	0.1 % Weight (2)	N			EC Number: 205-912-4, CAS number: 206-44-0. PBT (Article 57d) vPvB (Article 57e)
Benzo[k]fluoranthene	0.1 % Weight (2)	N			EC Number: 205-916-6, CAS number: 207-08-9, Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	0.1 % Weight (2)	N			EC Number: 401-720-1, CAS number: 6807-17-6, Toxic for reproduction (Article 57c)
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	0.1 % Weight (2)	N			3-benzylidene camphor; 3-BC. EC Number: 239-139-9, CAS number: 15087-24-8, Endocrine disrupting properties (Article 57 f - environment)

## REACH List of Substances of Very High Concern (SVHC) – page 11 of 15

Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
<a href="#">Date of inclusion to SVHC 16.7.2019</a>					
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	0.1 % Weight (2)	N			CAS numbers: 26523-78-4, 3050-88-2, 106599-06-8, 31631-13-7 and tris(4-nonylphenyl, branched) phosphite. Endocrine disrupting properties (Article 57 f - environment)
4-tert-butylphenol	0.1 % Weight (2)	N			EC Number: 202-679-0, CAS number: 98-54-4, Endocrine disrupting properties (Article 57 f - environment)
2-methoxyethyl acetate	0.1 % Weight (2)	N			EC Number: 203-772-9, CAS number: 110-49-6, Toxic for reproduction (Article 57c)
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	0.1 % Weight (2)	N			Covering any of their individual isomers and combinations thereof. CAS numbers: 2062-98-8, 13252-13-6, 67118-55-2, 62037-80-3, 75579-40-7, 75579-39-4. Equivalent level of concern having probable serious effects (Article 57 f - human health and environment).
<a href="#">Date of inclusion to SVHC 16.1.2020</a>					
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	0.1 % Weight (2)	N			CG 25-369, IRGACURE 369, TK 11-319. EC Number: 404-360-3, CAS number: 119313-12-1, Toxic for reproduction (Article 57c)
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	0.1 % Weight (2)	N			ACETOCURE 97, GENOCURE*PMP, IGM 4817, IRGACURE 907, SPEEDCURE 97. EC Number: 400-600-6, CAS number: 71868-10-5, Toxic for reproduction (Article 57c)
Diisohexyl phthalate	0.1 % Weight (2)	N			EC Number: 276-090-2, CAS number: 71850-09-4, Toxic for reproduction (Article 57c)
Perfluorobutane sulfonic acid (PFBS) and its salts	0.1 % Weight (2)	N			CAS numbers: 29420-49-3, 375-73-5, 194999-85-4, 220689-12-3, 220133-51-7, 68259-10-9, 144317-44-2, 25628-08-4, 507453-86-3, 131651-65-5, 503155-89-3 and EC number: 468-770-4 (CAS number: -). Equivalent level of concern having probable serious effects to human health and environment (Article 57 f)
<a href="#">Date of inclusion to SVHC 25.6.2020</a>					
1-vinylimidazole	0.1 % Weight (2)	N			EC Number: 214-012-0, CAS number: 1072-63-5, Toxic for reproduction (Article 57c)
2-methylimidazole	0.1 % Weight (2)	N			EC Number: 211-765-7, CAS number: 693-98-1, Toxic for reproduction (Article 57c)
Butyl 4-hydroxybenzoate	0.1 % Weight (2)	N			EC Number: 202-318-7, CAS number: 94-26-8, Endocrine disrupting properties (Article 57 f - human health).
Dibutylbis(pentane-2,4-dionato-O,O')tin	0.1 % Weight (2)	N			EC Number: 245-152-0, CAS number: 22673-19-4, Toxic for reproduction (Article 57c)
<a href="#">Date of inclusion to SVHC 19.1.2021</a>					
Bis(2-(2-methoxyethoxy)ethyl)ether	0.1 % Weight (2)	N			EC Number: 205-594-7, CAS number: 143-24-8, Toxic for reproduction (Article 57c)
Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	0.1 % Weight (2)	N			Diocetyl tin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. EC number: -, CAS number: -, Stannane, dioctyl-, bis(coco acyloxy) derivs. EC number: 293-901-5, CAS number: 91648-39-4, Diocetyl tin dilaurate EC number: 222-883-3, CAS number: 3648-18-8. Toxic for reproduction (Article 57c)
<a href="#">Date of inclusion to SVHC 8.7.2021</a>					
1,4-dioxane	0.1 % Weight (2)	N			EC Number: 204-661-8, CAS number: 123-91-1, Carcinogenic (Article 57a), Equivalent level of concern having probable serious effects to human health and environment (Article 57 f)

## REACH List of Substances of Very High Concern (SVHC) – page 12 of 15

Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	0.1 % Weight (2)	N			3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) CAS number: 1522-92-5, 2,2-bis(bromomethyl)propane-1,3-diol (BMP) EC number: 221-967-7, CAS number: 3296-90-0, 2,3-dibromo-1-propanol (2,3-DBPA) EC number: 202-480-9, CAS number: 96-13-9, 2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA) EC number: 253-057-0, CAS number: 36483-57-5, Carcinogenic (Article 57a)
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	0.1 % Weight (2)	N			(2R)-3-(4-tert-butylphenyl)-2-methylpropanal CAS number: 75166-31-3, 2-(4-tert-butylbenzyl)propionaldehyde EC number: 201-289-8, CAS number: 80-54-6, (2S)-3-(4-tert-butylphenyl)-2-methylpropanal CAS number: 75166-30-2, Toxic for reproduction (Article 57c)
4,4'-(1-methylpropylidene)bisphenol	0.1 % Weight (2)	N			EC Number: 201-025-1, CAS number: 77-40-7, Endocrine disrupting properties (Article 57 f - environment and human health)
glutaral	0.1 % Weight (2)	N			EC Number: 203-856-5, CAS number: 111-30-8, Respiratory sensitising properties (Article 57 f - human health)
Medium-chain chlorinated paraffins (MCCP): UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17	0.1 % Weight (2)	N			Alkanes, C14-17, chloro EC number: 287-477-0, CAS number: 85535-85-9, Tetradecane, chloro derivs. CAS number: 198840-65-2, Alkanes, C14-16, chloro CAS number: 1372804-76-6, di-, tri- and tetrachlorotetradecane, PBT (Article 57d), vPvB (Article 57e)
Orthoboric acid, sodium salt	0.1 % Weight (2)	N			Boric acid, sodium salt EC number: 215-604-1, CAS number: 1333-73-9, Orthoboric acid, sodium salt EC number: 237-560-2, CAS number: 13840-56-7, boric acid (H3BO3), sodium salt, hydrate CAS number: 25747-83-5, boric acid (H3BO3), sodium salt (1:1) CAS number: 14890-53-0, Boric acid (H3BO3), disodium salt CAS number: 22454-04-2, Trisodium orthoborate EC number: 238-253-6, CAS number: 14312-40-4, Toxic for reproduction (Article 57c)
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	0.1 % Weight (2)	N			Phenol, 4-dodecyl, branched CAS number: 210555-94-5, 4-isododecylphenol CAS number: 27459-10-5, Phenol, 4-isododecyl- CAS number: 27147-75-7, Phenol, dodecyl-, branched EC number: 310-154-3, CAS number: 121158-58-5, Phenol, (tetrapropenyl) derivatives CAS number: 74499-35-7, Phenol, tetrapropylene- CAS number: 57427-55-1. Toxic for reproduction (Article 57c), Endocrine disrupting properties (Article 57 f - environment and human health)
Date of inclusion to SVHC 17.1.2022					
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	0.1 % Weight (2)	N			(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one CAS number: 1782069-81-1, (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one CAS number: 95342-41-9, (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one CAS number: 852541-25-4, (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one EC number: 253-242-6, CAS number: 36861-47-9, (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one CAS number: 741687-98-9, (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one CAS number: 852541-30-1, (1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one CAS number: 852541-21-0, Endocrine disrupting properties (Article 57 f - human health)
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	0.1 % Weight (2)	N			EC Number: 204-327-1, CAS number: 119-47-1, Toxic for reproduction (Article 57c)

## REACH List of Substances of Very High Concern (SVHC) – page 13 of 15

Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate (X4261)	0.1 % Weight (2)	N			EC Number: 401-850-9, CAS number: 255881-94-8, PBT (Article 57d)
tris(2-methoxyethoxy)vinylsilane	0.1 % Weight (2)	N			EC Number: 213-934-0, CAS number: 1067-53-4, Toxic for reproduction (Article 57c)
<a href="#">Date of inclusion to SVHC 10.6.2022</a>					
N-(hydroxymethyl)acrylamide	0.1 % Weight (2)	N			EC number: 213-103-2, CAS number: 924-42-5, Carcinogenic (Article 57a), Mutagenic (Article 57b)
<a href="#">Date of inclusion to SVHC 17.1.2023</a>					
1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	0.1 % Weight (2)	N			EC number: 253-692-3, CAS number: 37853-59-1, vPvB (Article 57e)
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	0.1 % Weight (2)	N			EC number: 201-236-9, CAS number: 79-94-7, Carcinogenic (Article 57a)
4,4'-sulphonyldiphenol	0.1 % Weight (2)	N			EC number: 201-250-5, CAS number: 80-09-1, Toxic for reproduction (Article 57c), Endocrine disrupting properties (Article 57(f) - environment and - human health)
Barium diboron tetraoxide	0.1 % Weight (2)	N			EC number: 237-222-4, CAS number: 13701-59-2, Toxic for reproduction (Article 57c)
bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	0.1 % Weight (2)	N			Bis(2-ethylhexyl) tetrabromophthalate EC No.: 247-426-5, CAS No.: 26040-51-7, vPvB (Article 57e)
Isobutyl 4-hydroxybenzoate	0.1 % Weight (2)	N			EC number: 224-208-8, CAS number: 4247-02-3, Endocrine disrupting properties (Article 57(f) - human health)
Melamine	0.1 % Weight (2)	N			EC number: 203-615-4, CAS number: 108-78-1, Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health), Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
Perfluoroheptanoic acid and its salts	0.1 % Weight (2)	N			Ammonium perfluoroheptanoate EC No.: 228-098-2, CAS No.: 6130-43-4, potassium perfluoroheptanoate CAS No.: 21049-36-5, Perfluoroheptanoic acid EC No.: 206-798-9, CAS No.: 375-85-9, Sodium perfluoroheptanoate EC No.: 243-518-4, CAS No.: 20109-59-5, Toxic for reproduction (Article 57c), PBT (Article 57d), vPvB (Article 57e), Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health), Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
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	0.1 % Weight (2)	N			EC number: 473-390-7, vPvB (Article 57e)
<a href="#">Date of inclusion to SVHC 14.6.2023</a>					
bis(4-chlorophenyl) sulphone	0.1 % Weight (2)	N			EC number: 201-247-9, vPvB (Article 57e)
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	0.1 % Weight (2)	N			EC number: 278-355-8, Toxic for reproduction (Article 57c)
<a href="#">Date of inclusion to SVHC 23.1.2024</a>					
2,4,6-tri-tert-butylphenol	0.1 % Weight (2)	N			EC number: 211-989-5, CAS number: 732-26-3, Toxic for reproduction (Article 57c), PBT (Article 57d)

## REACH List of Substances of Very High Concern (SVHC) – page 14 of 15

Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	0.1 % Weight (2)	N			EC number: 221-573-5, CAS number: 3147-75-9, vPvB (Article 57e)
2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	0.1 % Weight (2)	N			EC number: 438-340-0, CAS number: 119344-86-4, Toxic for reproduction (Article 57c)
Bumetrizole (UV-326)	0.1 % Weight (2)	N			EC number: 223-445-4, CAS number: 3896-11-5, vPvB (Article 57e)
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	0.1 % Weight (2)	N			EC number: 700-960-7, Previously registered as Phenol, methylstyrenated, EC number: 270-966-8, CAS number: 68512-30-1, vPvB (Article 57e)
<a href="#">Date of inclusion to SVHC 27.6.2024</a>					
Bis(α,α-dimethylbenzyl) peroxide	0.1 % Weight (2)	N			EC number: 201-279-3, CAS number: 80-43-3, Toxic for reproduction (Article 57c)
<a href="#">Date of inclusion to SVHC 7.11.2024</a>					
Triphenyl phosphate	0.1 % Weight (2)	N			EC Number: 204-112-2, CAS number: 115-86-6, Endocrine disrupting properties (Article 57(f) – environment)
<a href="#">Date of inclusion to SVHC 21.1.2025</a>					
6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	0.1 % Weight (2)	N			EC number: 701-118-1, CAS number: 2156592-54-8, Toxic for reproduction (Article 57c)
O,O,O-triphenyl phosphorothioate	0.1 % Weight (2)	N			EC number: 209-909-9, CAS number: 597-82-0, PBT (Article 57d)
Octamethyltrisiloxane	0.1 % Weight (2)	N			EC number: 203-497-4, CAS number: 107-51-7, vPvB (Article 57e)
Perfluamine	0.1 % Weight (2)	N			EC number: 206-420-2, CAS number: 338-83-0, vPvB (Article 57e)
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	0.1 % Weight (2)	N			EC number: 421-820-9, CAS number: 192268-65-8, PBT (Article 57d)
<a href="#">Date of inclusion to SVHC 25.6.2025</a>					
1,1,1,3,5,5,5-heptamethyl-3-[[trimethylsilyloxy]trisiloxane	0.1 % Weight (2)	N			EC number: 241-867-7, CAS number: 17928-28-8, vPvB (Article 57e)
decamethyltetrasiloxane	0.1 % Weight (2)	N			EC number: 205-491-7, CAS number: 141-62-8, vPvB (Article 57e)
tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[[4-chloro-6-({2-[(4-fluoro-6-[[4-(vinylsulfonyl)phenyl]amino)-1,3,5-triazine-2-yl]amino]propyl]amino)-1,3,5-triazine-2-yl]amino]-5-sulfonato-1-naphthyl]diazonyl]-5-methoxyphenyl]diazonyl]-1,3,6-naphthalenetrisulfonate (Reactive Brown 51). Substance having a complex composition with <80% of the above constituents and other reaction side products.	0.1 % Weight (2)	N			EC number: 466-490-7, Toxic for reproduction (Article 57c)

## REACH List of Substances of Very High Concern (SVHC) – page 15 of 15

Substance			If yes (Y), detailed information of contained substances		
Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
<a href="#">Date of inclusion to SVHC 5.11. 2025</a>					
1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	0.1 % Weight (2)	N			EC number: 284-366-9, CAS number: 84852-53-9, vPvB (Article 57e)
<a href="#">Date of inclusion to SVHC 4.2. 2026</a>					
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and its salts	0.1 % Weight (2)	N			4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (Bisphenol AF) EC number: 216-036-7, CAS number: 1478-61-1 Benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1) EC number: 278-305-5, CAS number: 75768-65-9 disodium 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenolate EC number: 425-060-9, CAS number: - Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyl(diethylamino)diphenylphosphonium 4-[1,1,1,3,3,3-hexafluoro-2-(4-hydroxyphenyl)propan-2-yl]phenolate (1:1) EC number: -, CAS number: - benzyl(diethylamino)diphenylphosphonium 4-[1,1,1,3,3,3-hexafluoro-2-(4-hydroxyphenyl)propan-2-yl]phenolate EC number: 479-100-5, CAS number: 577705-90-9 N,N-dibutyl-N-methylbutan-1-aminium 4-[1,1,1,3,3,3-hexafluoro-2-(4-hydroxyphenyl)propan-2-yl]phenolate EC number: 443-330-4, CAS number: - Phosphonium, tributyl(2-methoxypropyl)-, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1) EC number: 468-740-0, CAS number: 126049-00-1 Reaction products of benzene, chlorine and sulfur chloride (S2Cl2) with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol EC number: 469-080-6, CAS number: 921213-47-0 Reaction mass of 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (1:1) EC number: -, CAS number: -, Toxic for reproduction (Article 57c)
n-hexane	0.1 % Weight (2)	N			EC number: 203-777-6, CAS number: 110-54-3, Specific target organ toxicity after repeated exposure (Article 57(f) - human health)

#### 4.0 Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under TSCA Section 6(h)

TSCA 2021 chemical restrictions and PIP (3:1). EPA = the U.S. Environmental Protection Agency. TSCA = Toxic Substances Control Act.

Further information and exceptions: <https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals>

Substance			If yes (Y), detailed information of contained substances		
Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Decabromodiphenyl ether (DecaBDE)	Intentionally added or 0.1 % Weight (2)	N			CAS number: 1163-19-5. DecaBDE is used as a flame retardant. Further information, see the website presented above this table. Also: [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
	Exception	N			DecaBDE is contained in plastic shipping pallets manufactured prior to the publication of the final rule that contain DecaBDE until the end of the pallets service lives.
		N			Processing and distribution in commerce for recycling of plastic that contained DecaBDE before the plastic was recycled (i.e., the plastic to be recycled is from articles and products that were originally made with DecaBDE), and the articles and products made from such recycled plastic so long as no new DecaBDE is added during the recycling or production process.
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	Intentionally added or 0.1 % Weight (2)	N			CAS number: 68937-41-7. Further information, see the website presented above this table.
	Exception	N			Exclusion for processing and distribution in commerce of finished products or articles made of plastic recycled or reused from products or articles containing PIP (3:1 ) where no new PIP (3:1) is added (i.e., the plastic to be recycled is from articles and products that were originally made with PIP (3:1))
		N			Exclusion for processing and distribution in commerce for PIP (3:1) and PIP (3:1)-containing products for use in circuit boards and wire harnesses, and PIP (3:1)-containing circuit boards and wire harnesses
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	0.3% by weight	N			2,4,6-TTBP (CAS number:732-26-3) is used as an intermediate/reactant in processing and is incorporated into formulations destined for fuel and fuel-related additives, as well as into formulations intended for the maintenance or repair of motor vehicles and machinery, including in oils and lubricants. Further information, see the website presented above this table.
Hexachlorobutadiene (HCBD)	Any content	N			HCBD (CAS number: 87-68-3) is used as a halogenated aliphatic hydrocarbon that is produced as a byproduct during the manufacture of chlorinated hydrocarbons, particularly perchloroethylene, trichloroethylene, and carbon tetrachloride and is subsequently burned as a waste fuel.
Pentachlorothiophenol (PCTP)	1% by weight	N			PCTP (CAS number: 133-49-3) is used to make rubber more pliable in industrial uses.

## 5.0 Material and Substance Declaration (IEC 62474) – page 1 of 7

21.1. 2014 the Consumer Electronics Association (CEA), DIGITALEUROPE, and the Japanese Green Procurement Survey Standardization Initiative (JGPSSI) announced that the International Electrotechnical Commission standard IEC 62474 (<http://std.iec.ch/iec62474>) is the recommended electrotechnical industry's material declaration standard and will replace the Joint Industry Guide (JIG-101 Ed 4.1).

Version: D31.00 (25. June. 2025)

\*) More details (substances and CAS numbers) see Reference Substance List (RSL) at <http://std.iec.ch/iec62474>

Substance				If yes (Y), detailed information of contained substances		
	Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Asbestos	Intentionally added	N				*) See IEC 62474 for details. [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Toxic Substances Control Act (TSCA); [Switzerland] Act of Reduction of Risks in Treatment of Specified Hazardous Substances, Preparations, and Articles in Switzerland (ChemRRV) Swiss Ordinance 814.81
Certain azocolourants and azodyes (which form certain aromatic amines)	Intentionally added (Textiles and Leather)	NA				[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
Beryllium Oxide	0.1 % Weight (2), For Information Only	N				CAS number: 1304-56-9, (Guidance) EICTA, CECED and EERA Joint Position : Guidance on implementing article 11 of Directive 2002/96(EC) concerning information for treatment facilities
Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	0.09 mass% total bromine content in laminate. For Information Only	N				*) See IEC 62474 for details. (Standard) IEC 61249-2-21; (Standard) IPC-4101
Brominated flame retardants (other than PBBs, PBDEs, or HBCDD)	0.1 mass% of bromine in plastic materials. For Information Only	N				*) See IEC 62474 for details. (Standard) JEDEC JS709
Cadmium/Cadmium compounds	0.001% by weight of battery	NA				*) See IEC 62474 for details.
Dibutyltin (DBT) compounds	0.1 mass% of tin in the part	N				*) See IEC 62474 for details. CAS numbers: 818-08-6, 1067-33-0, 77-58-7, 78-04-6 and Other dibutyltin compounds. [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
Diocetyl tin (DOT) compounds	0.1 mass% of tin in the part	N				*) See IEC 62474 for details. CAS numbers: 870-08-6, 3648-18-8 and Other Diocetyl tin compounds. [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
Dimethylfumarate (DMF)	0.00001 % Weight (2)	N				CAS numbers: 624-49-7. DMF; Dimethyl (E)-butenedioate; 2-Butenedioic acid (2E)-, dimethyl ester. [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
Fluorinated Greenhouse Gases (PFC, SF6, HFC)	Intentionally added	N				CAS numbers: 75-73-0, 76-16-4, 76-19-7, 355-25-9, 355-25-9, 355-42-0, 115-25-3, 2551-62-4, 75-46-7, 75-10-5, 593-53-3, 138495-42-8, 354-33-6, 359-35-3, 811-97-2, 75-37-6, 430-66-0, 420-46-2, 431-89-0, 677-56-5, 431-63-0, 690-39-1, 679-86-7, 460-73-1, 406-58-6, [EU] REGULATION (EU) No 517/2014 on fluorinated greenhouse gases
Formaldehyde	0.0075 mass% in homogenous material	NA				CAS numbers: 50-00-0, [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII, Reportable applications: (a) clothing or related accessories, (b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing, (c) footwear.
Hexabromocyclododecane (HBCDD)	Intentionally added or 0.01 % Weight (2)	N				CAS numbers: 25637-99-4, 134237-50-6, 134237-51-7, 134237-52-8, 3194-55-6, [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004
Lead/Lead Compounds *) See IEC 62474 for details.	0.01 % Weight (2)	N				Consumer products designed or intended primarily for children 12 years of age or younger. [USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
	0.009 mass% of surface coating material	N				Paint and similar surface coatings of toys and other articles intended for use by children. [USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
	0.03 mass% of surface coating material	N				Cables/cords with thermoset or thermoplastic coatings. [USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).
	0.004 mass% of battery	NA				Cables/cords with thermoset or thermoplastic coatings. [EU] Battery Directive 2006/66/EC; [China] Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries GB 24427-2009

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 \*) More details (substances and CAS numbers) see Reference Substance List (RSL) at <http://std.iec.ch/iec62474>

Substance		If yes (Y), detailed information of contained substances			
Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Mercury/Mercury Compounds *) See IEC 62474 for details.	Intentionally added or 0.1 % Weight (1)	N			All, except batteries. [EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [Canada] Products containing Mercury regulations SOR/2014-254
	Intentionally added or 0.0001 mass% of battery	NA			Batteries. [EU] Battery Directive 2006/66/EC; [China] Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries GB 24427-2009; [Taiwan (Province of China)] Restrictions on the Manufacture, Import, and Sale of Dry Cell Batteries; [Korea (the Republic of)] Quality Management and Manufactured Product Safety Management Law (Battery Regulation); [USA New York] Environmental Conservation Law, Battery management and disposal § 27-0719
Nickel/Nickel Compounds	Intentionally added	NA			All, where prolonged skin contact is expected. [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
Ozone Depleting Substances (CFC, Halon, HBFC, HCFC & others) *) See IEC 62474 for details.	Intentionally added	N			[EU] Regulation on substances that deplete the ozone layer (EC) No. 1005/2009; [Japan] Law concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures; [USA] Clean Air Act; (Treaty) Montreal Protocol on Substances that Deplete the Ozone Layer
Perchlorates	6 x 10 <sup>-7</sup> mass% of battery or product part	N			CAS numbers: 7791-03-9, 7790-98-9, 13465-95-7, 13637-76-8, 10034-81-8, 13455-31-7, 7616-83-3, 13520-61-1, 13637-71-3, 7778-74-7, 7601-89-0, 15596-83-5, [USA California] Perchlorate Contamination Prevention Act of 2003 AB 826
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	Intentionally added or 0.1 % Weight (2)	N			CAS number: 3846-71-7, [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
Phthalates, Selected Group 1 (DEHP, DBP, BBP, DIBP)	0.1 mass% as the sum of the phthalate concentrations in plasticized material	N			Children's toy or child care article, CAS numbers: 117-81-7, 84-74-2, 85-68-7, 84-69-5, [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314.
Phthalates, Selected Group 2 (DIDP, DINP, DNOP)	0.1 mass% as the sum of the phthalate concentrations in plasticized material	N			Children's toy or child care article that can be placed in a child's mouth, CAS numbers: 26761-40-0, 68515-49-1, 28553-12-0, 68515-48-0, 117-84-0, [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII; [USA] Consumer Product Safety Improvement Act of 2008 PUBLIC LAW 110-314
Polychlorinated Biphenyls (PCBs) and specific substitutes	Intentionally added	N			CAS numbers: 1336-36-3, 76253-60-6, 81161-70-8, 99688-47-8, [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [USA] Toxic Substances Control Act (TSCA); [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
Polychlorinated Terphenyls (PCTs)	0.005 mass% in material	N			Polychlorinated Terphenyls (PCT) (all isomers and congeners), CAS number: 61788-33-8, [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
Polychlorinated naphthalenes	Intentionally added	N			CAS numbers: 70776-03-3, 90-13-1, 91-58-7, 1825-30-5, 1825-31-6, 2050-69-3, 2050-72-8, 2050-73-9, 2050-74-0, 2050-75-1, 2065-70-5, 2198-75-6, 2198-77-8, 25586-43-0, 28699-88-9, 1321-64-8, 1321-65-9, 1335-87-1, 1335-88-2, 2234-13-1, 2437-54-9, 2437-55-0, 3432-57-3, 6529-87-9, 6733-54-6, 17062-87-2, 20020-02-4, 31604-28-1, 32241-08-0, 34588-40-4, 50402-51-2, 50402-52-3, 51570-43-5, 51570-44-6, 51570-45-7, 53555-63-8, 53555-64-9, 53555-65-0, 55720-33-7, 55720-34-8, 55720-35-9, 55720-36-0, 55720-37-1, 55720-38-2, 55720-39-3, 55720-40-6, 55720-41-7, 55720-42-8, 55720-43-9, 58863-14-2, 58863-15-3, 58877-88-6, 67922-21-8, 67922-22-9, 67922-23-0, 67922-24-1, 67922-25-2, 67922-26-3, 67922-27-4, 90948-28-0, 103426-92-2, 103426-93-3, 103426-94-4, 103426-95-5, 103426-96-6, 103426-97-7, 149864-78-8, 149864-79-9, 149864-80-2, 149864-81-3, 149864-82-4, 150205-21-3, 150224-15-0, 150224-16-1, 150224-17-2, 150224-18-3, 150224-19-4, 150224-20-7, 150224-21-8, 150224-22-9, 150224-23-0, 150224-24-1, 150224-25-2, [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

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 \*) More details (substances and CAS numbers) see Reference Substance List (RSL) at <http://std.iec.ch/iec62474>

Substance	If yes (Y), detailed information of contained substances				
	Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg] Content rate [ppm]	Additional information on material composition of products
Radioactive substances	Intentionally added	N			CAS numbers: 7440-61-1, 10043-92-2, 14596-10-2, 7440-29-1, 10045-97-3, 10098-97-2 and other radioactive substances, [USA] Nuclear Regulatory Commission Regulations Title 10 CFR Part 20; [Japan] Law for the Regulation of Nuclear Source Material, Nuclear Fuel Material, and Reactors; [Japan] Law Concerning Prevention from Radiation Hazards due to Radio-Isotopes, etc.; [EU] Directive 2013/59/Euratom
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	Intentionally added or 0.1 % Weight (2)	N			CAS numbers: 85535-84-8, 108171-26-2, 71011-12-6, 61788-76-9 and other Short Chain Chlorinated Paraffins, [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Norway] Regulations relating to restrictions on the manufacture, import, export, sale and use of chemicals and other products hazardous to health and the environment (Consumer Product Regulations) FOR-2004-06-01-922; [Switzerland] Act of Reduction of Risks in Treatment of Specified Hazardous Substances, Preparations, and Articles in Switzerland (ChemRRV) Swiss Ordinance 814.81
Bis(tributyltin) oxide (TBTO)	Intentionally added or 0.1 % Weight (2)	N			CAS number: 56-35-9, [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation, [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
Tri-substituted organostannic compounds	Intentionally added or 0.1 mass% of tin in the part	N			CAS numbers: 1803-12-9, 379-52-2, 900-95-8, 639-58-7, 76-87-9, 18380-71-7, 18380-72-8, 47672-31-1, 94850-90-5, 7094-94-2, 2155-70-6, 6454-35-9, 1983-10-4, 31732-71-5, 56-36-0, 3090-36-6, 4782-29-0, 67772-01-4, 6517-25-5, 14275-57-1, 1461-22-9, 7342-38-3, 85409-17-2, 26239-64-5 and other tri-substituted organostannic compounds, [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII, [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc., [Norway] Regulations relating to restrictions on the manufacture, import, export, sale and use of chemicals and other products hazardous to health and the environment (Consumer Product Regulations) FOR-2004-06-01-922
Chlorinated Flame Retardants (CFR)	0.1 mass% of chlorine in plastic materials. For Information Only	N			For plastic materials only, except printed wiring board laminates. CAS numbers: 38051-10-4, 13674-84-5, 66108-37-0, 13674-87-8, 13560-89-9, 135821-74-8, 135821-03-3 and other Chlorinated Flame Retardants, (Standard) JEDEC JS709
	0.09 mass% of total chlorine content in laminate. For Information Only	N			For Printed Wiring Board (PWB) Laminates only. CAS numbers: 38051-10-4, 13674-84-5, 66108-37-0, 13674-87-8, 13560-89-9, 135821-74-8, 135821-03-3 and other Chlorinated Flame Retardants, (Standard) IEC 61249-2-21; (Standard) IPC-4101
Di-isodecyl phthalate (DIDP)	Intentionally added	N			CAS numbers: 68515-49-1, 26761-40-0, [USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
Di-n-hexyl phthalate (DnHP)	Intentionally added or 0.1 % Weight (2)	N			CAS number: 84-75-3, [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation, [USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
Diisononyl phthalate (DINP)	Intentionally added	N			CAS numbers: 28553-12-0, 68515-48-0, [USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
Benzo[def]chrysene, (Benzo[a]pyrene), BaP	0.0001 mass% of the plastic or rubber part	N			CAS number: 50-32-8. **) Rubber or plastic parts that come into direct, prolonged or repetitive skin or oral cavity contact except those for toys or childcare articles. This declarable substance is a polycyclic aromatic hydrocarbon (PAH). [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
Benzo[e]pyrene (BeP)	0.0001 mass% of the plastic or rubber part	N			CAS number: 192-97-2 See description **) above
Benzo[a]anthracene (BaA)	0.0001 mass% of the plastic or rubber part	N			CAS number: 56-55-3 See description **) above
Chrysen, other name: Chrysene (CHR)	0.0001 mass% of the plastic or rubber part	N			CAS number: 218-01-9 See description **) above

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 \*) More details (substances and CAS numbers) see Reference Substance List (RSL) at <http://std.iec.ch/iec62474>

Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Benzo[b]fluoranthene (BbFA)	0.0001 mass% of the plastic or rubber part	N			CAS number: 205-99-2 See description **) above
Benzo[j]fluoranthene (BjFA)	0.0001 mass% of the plastic or rubber part	N			CAS number: 205-82-3 See description **) above
Benzo[k]fluoranthene (BkFA)	0.0001 mass% of the plastic or rubber part	N			CAS number: 207-08-9 See description **) above
Dibenzo[a,h]anthracene (DBaHA)	0.0001 mass% of the plastic or rubber part	N			CAS number: 53-70-3 See description **) above
Benzo[def]chrysene, (Benzo[a]pyrene), BaP	0.00005 mass% of the plastic or rubber part	N			CAS number: 50-32-8. ***) Rubber or plastic parts of toys and childcare articles that come into direct, prolonged or repetitive skin or oral cavity contact. Notes: This declarable substance is a polycyclic aromatic hydrocarbon (PAH). [EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII
Benzo[e]pyrene (BeP)	0.00005 mass% of the plastic or rubber part	N			CAS number: 192-97-2 See description ***) above
Benzo[a]anthracene (BaA)	0.00005 mass% of the plastic or rubber part	N			CAS number: 56-55-3 See description ***) above
Chrysen, other name: Chrysene (CHR)	0.00005 mass% of the plastic or rubber part	N			CAS number: 218-01-9 See description ***) above
Benzo[b]fluoranthene (BbFA)	0.00005 mass% of the plastic or rubber part	N			CAS number: 205-99-2 See description ***) above
Benzo[j]fluoranthene (BjFA)	0.00005 mass% of the plastic or rubber part	N			CAS number: 205-82-3 See description ***) above
Benzo[k]fluoranthene (BkFA)	0.00005 mass% of the plastic or rubber part	N			CAS number: 207-08-9 See description ***) above
Dibenzo[a,h]anthracene (DBaHA)	0.00005 mass% of the plastic or rubber part	N			CAS number: 53-70-3 See description ***) above
Perfluorooctane sulfonates (PFOS)	Intentionally added or 1 microgram/m2 of coated material	N			Textiles or other coated materials. CAS numbers: 306975-62-2, 2991-51-7, [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
	Intentionally added or 0.1 mass% of the part (as the sum of PFOS)	N			All except textiles or other coated materials. CAS numbers: 306975-62-2, 2991-51-7, [EU] Persistent Organic Pollutants (POPs) Regulation (EC) No.850/2004; [Canada] Prohibition of Certain Toxic Substances Regulations SOR/2012-285 and its amendment; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
Mercury/Mercury Compounds	0.0005 Weight (1)	NA			Batteries, [Canada] Products containing Mercury Regulations SOR/2014-254
4,4'-isopropylidenediphenol	Intentionally added or 0.1 % Weight (2)	N			CAS number: 80-05-7, [EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [USA California] Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
Perfluorooctanoic acid and its salts (PFOA)	Intentionally added or 0.0000025 mass% of PFOA including its salts in article or mixture	N			CAS numbers: 335-67-1, 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, [EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.; [Korea (the Republic of)] Persistent Organic Pollutants Control Act

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 \*) More details (substances and CAS numbers) see Reference Substance List (RSL) at <http://std.iec.ch/iec62474>

Substance	Threshold Level	Above threshold level ? Y / N	If yes (Y), detailed information of contained substances		
			Weight [mg]	Content rate [ppm]	Additional information on material composition of products
PFOA-related compounds	Intentionally added or 0.0001 mass% of one or a combination of PFOA-related compounds, in article or mixture	N			CAS numbers: 335-67-1, 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 376-27-2, 3108-24-5, 678-39-7, 1996-88-9, [EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021; [Korea (the Republic of)] Persistent Organic Pollutants Control Act
Cadmium/Cadmium compounds	0.01 % Weight (1)	N			Video display devices, with a screen size of greater than four inches. CAS numbers: 7440-43-9, 1306-19-0, 1306-23-6, [USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
Chromium (VI) Compounds	0.1 % Weight (1)	N			Video display devices, with a screen size of greater than four inches. CAS numbers: 10294-40-3, 13765-19-0, 7789-06-2, 13530-65-9, [USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
Lead/Lead Compounds	0.1 % Weight (1)	N			Video display devices, with a screen size of greater than four inches. CAS numbers: 7439-92-1, 7446-14-2, 598-63-0, 1319-46-6, 6080-56-4, 12069-00-0, 1309-60-0, 1314-41-6, 1314-87-0, 7446-27-7, 12060-00-3, 15739-80-7, 12202-17-4, 1072-35-1, 7758-97-6, 12656-85-8, 1344-37-2, [USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
Mercury/Mercury Compounds	0.1 % Weight (1)	N			Video display devices, with a screen size of greater than four inches. CAS numbers: 7439-97-6, 33631-63-9, 7487-94-7, 7783-35-9, 10045-94-0, 21908-53-2, 1344-48-5, [USA California] Electronic Waste Recycling Act (California RoHS) SB 20, amended by SB 50 and AB 575
Halogenated Flame Retardants *) See IEC 62474 for details.	0.1 mass% of halogen content in homogeneous material	NA			Reportable Applications: Enclosure and stand of electronic displays, including televisions, monitors and digital signage displays with a screen area greater than 100 square centimetres. [EU] Commission Regulation (EU) 2019/2021 laying down ecodesign requirements for electronic displays
Cobalt/Cobalt compounds	Intentionally added	N			Batteries used in computer servers and online data storage products. [EU] Ecodesign requirements (EU) 2021/341 and (EU) 2019/424 pursuant to Directive 2009/125/EC
Neodymium/Neodymium compounds	Intentionally added	N			HDDs (Hard Disk Drives) used in computer servers and online data storage products. [EU] Ecodesign requirements (EU) 2021/341 and (EU) 2019/424 pursuant to Directive 2009/125/EC
C9-C14 PFCAs and their salts	0.000025 mass% for the sum of C9-C14 PFCAs and their salts in Article or Mixture	N			[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII, <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32021R1297&amp;qid=1628207104080">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32021R1297&amp;qid=1628207104080</a> , CAS numbers: 2058-94-8, 21049-39-8, 307-55-1, 3108-42-7, 335-76-2, 375-95-1, 376-06-7, 3830-45-3, 4149-60-4, 72629-94-8.
C9-C14 PFCA-related substances	0.000026 mass% for the sum of C9-C14 PFCA-related substances in Article or Mixture	N			[EU] REACH Regulation (EC) No.1907/2006 ANNEX XVII, <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32021R1297&amp;qid=1628207104080">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32021R1297&amp;qid=1628207104080</a> , CAS numbers: 115592-83-1, 125328-29-2, 129783-45-5, 144031-01-6, 15811-52-6, 16083-87-7, 16486-96-7, 1765-48-6, 17741-60-5, 18024-09-4, 1895-26-7, 2043-54-1, 2144-54-9, 30046-31-2, 307-50-6, 307-60-8, 307-63-1, 307-71-1, 3248-61-1, 3248-63-3, 335-79-5, 3658-63-7, 376-04-5, 3793-74-6, 39239-77-5, 423-62-1, 4980-53-4, 52956-82-8, 558-97-4, 6014-75-1, 60699-51-6, 63295-27-2, 63295-28-3, 65104-45-2, 65510-55-6, 65510-56-7, 677-93-0, 68015-87-2, 68025-62-7, 68155-54-4, 68188-12-5, 68333-92-6, 68390-33-0, 68412-68-0, 68412-69-1, 71356-38-2, 72968-38-8, 74256-14-7, 74256-15-8, 85631-54-5, 85681-64-7, 865-86-1, 90622-71-2, 90622-99-4, 91032-01-8, 93062-53-4, 93776-00-2, 93776-12-6, 93776-13-7, 93776-15-9, 93776-16-0, 93776-17-1, 94158-70-0, 94159-76-9, 94159-79-2, 94159-80-5, 94159-82-7, 94159-83-8, 94200-42-7, 94200-43-8, 94200-46-1, 94200-47-2, 94200-48-3, 94200-50-7, 94200-51-8
Per- and poly-fluoroalkyl substances (PFAS)	Intentionally added	N			[USA Maine] Maine Public Law, Chapter 447 (LD 1503, 2021) PFAS regulation, see CAS numbers below **)

\*\*) PFAS CAS numbers: 335-67-1, 93062-53-4, 93776-00-2, 93776-12-6, 93776-13-7, 93776-15-9, 93857-44-4, 94158-63-1, 94158-64-2, 94158-65-3, 94158-70-0, 94159-79-2, 94159-80-5, 94159-82-7, 94159-83-8, 94200-45-0, 94200-46-1, 94200-47-2, 94200-48-3, 94200-50-7, 94200-51-8, 94200-52-9, 95370-51-7, 83048-65-1, 74612-30-9, 3102-79-2, 1882109-59-2, 1812247-20-3, 1812247-18-9, 1144512-36-6, 1144512-34-4, 909009-42-3, 207678-51-1, 35605-76-6, 98241-25-9, 27854-31-5, 70887-84-2, 57678-03-2, 1882109-80-9, 53517-98-9, 89685-61-0, 325459-92-5, 326475-46-1, 1882109-58-1, 1812247-19-0, 1812247-17-8, 1192593-79-5, 1144512-35-5, 1144512-18-4, 705240-04-6, 123116-17-6, 15166-06-0, 99955-83-6, 302911-86-0, 148240-85-1, 148240-87-3, 148240-89-5, 183146-60-3, 71608-61-2, 129783-45-5, 144031-01-6, 74049-08-4, 65104-45-2, 53515-73-4, 1882109-81-0, 1882109-79-6, 1882109-78-5, 1882109-77-4, 1882109-76-3, 1882109-75-2, 1882109-74-1, 1882109-73-0, 1882109-72-9, 1882109-71-8, 1882109-70-7, 1882109-68-3, 1882109-67-2, 1882109-66-1, 1882109-65-0, 1882109-64-9, 1882109-63-8, 1882109-62-7, 1882109-61-6, 1882109-60-5, 13058-06-5, 1195164-59-0, 19742-57-5, 61436-04-2, 29457-73-6, 18017-22-6, 15739-82-9, 15715-47-6, 40143-79-1, 610800-34-5, 307-50-6, 335-79-5, 376-04-5, 68390-33-0, 70887-94-4, 53826-13-4, 115592-83-1, 116984-14-6, 125328-29-2, 84029-60-7, 101947-16-4, 78560-44-8, 85631-54-5, 85681-64-7, 85938-56-3, 90480-55-0, 90480-56-1, 90622-71-2, 90622-99-4, 91032-01-8, 91615-22-4, 6014-75-1, 24216-05-5, 16083-78-6, 16083-87-7, 68187-42-8, 68188-12-5, 68333-92-6, 68412-69-1, 71356-38-2, 72968-38-8, 74256-14-7, 74256-15-8, 27905-45-9, 30046-31-2, 30389-25-4, 33496-48-9, 39186-68-0, 39239-77-5, 41358-63-8, 52956-82-8, 57678-05-4, 60699-51-6, 63295-27-2, 63295-28-3, 63295-29-4, 65510-55-6, 65510-56-7, 68141-02-6, 677-93-0, 678-39-7, 678-41-1, 307-43-7, 307-60-8, 307-63-1, 335-66-0, 335-93-3, 335-95-5, 376-27-2, 423-62-1, 507-63-1, 558-97-4, 1996-88-9, 2043-53-0, 2043-54-1, 2395-00-8, 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27619-97-2, 375-22-4, 102646-47-9, 355-42-0, 1805-22-7, 9002-83-9, 25101-45-5, 146915-43-7, 31175-20-9, 138495-42-8, 163702-07-6, 163702-08-7, 163702-05-4, 374-80-1, 335-57-9, 354-33-6, 359-35-3, 355-04-4, 354-97-2, 50285-18-2, 306-98-9, 335-27-3, 306-94-5, 306-92-3, 307-08-4, 306-91-2, 662-28-2, 116265-66-8, 375-03-1, 297730-93-9, 159148-08-0, 2375-68-0, 85720-78-1, 22052-84-2, 163702-06-5, 406-78-0, 355-02-2

**Material and Substance Declaration (IEC 62474) – page 6 of 7**

\*) More details (substances and CAS numbers) see Reference Substance List (RSL) at <http://std.iec.ch/iec62474>

Substance			If yes (Y), detailed information of contained substances		
Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Pentachlorophenol and its salts and esters	Intentionally added or 0.0005 mass% of PCP including its salts and esters in article or mixture	N			[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc., Carbonic acid, 1,1-dimethylethyl pentachlorophenyl ester CAS Number: 18942-25-1, Acetic acid, 2,2,2-trichloro-, 2,3,4,5,6-pentachlorophenyl ester CAS Number: 2879-60-9, Acetic acid, 2,2-dichloro-, 2,3,4,5,6-pentachlorophenyl ester CAS Number: 19745-69-8, Pentachlorophenol salts CAS No: -, Pentachlorophenol CAS Number: 87-86-5, Sodium pentachlorophenolate CAS Number: 131-52-2, Zinc bis(pentachlorophenolate) CAS Number: 2917-32-0, N2-benzyl pentachlorophenyl N2-carboxy-L-(2-aminoglutaramate) CAS Number: 13673-51-3, Perchlorophenyl N-(benzyloxycarbonyl)-L-isoleucinate CAS Number: 13673-53-5, Perchlorophenyl S-benzyl-N-(benzyloxycarbonyl)-L-cysteinate CAS Number: 13673-54-6, Pentachlorophenyl N-[[4-methoxyphenyl)methoxy]carbonyl]-L-serinate CAS Number: 23234-97-1, Pentachlorophenol esters CAS No: -, Perchlorophenyl 5-oxo-L-prolinate CAS Number: 28990-85-4, Pentachlorophenyl laurate CAS Number: 3772-94-9, Potassium pentachlorophenolate CAS Number: 7778-73-6.

**Material and Substance Declaration (IEC 62474) – page 7 of 7**

 \*) More details (substances and CAS numbers) see Reference Substance List (RSL) at <http://std.iec.ch/iec62474>

Substance		If yes (Y), detailed information of contained substances			
Category Name	Threshold Level	Above threshold level ? Y / N	Weight [mg]	Content rate [ppm]	Additional information on material composition of products
Polybrominated diphenyl ethers (PBDE)	0.1 % Weight (1) or Intentionally added	N			[EU] RoHS Directive 2011/65/EU and its amendments; [China] Law Measures for Restriction of the Use of Hazardous Substances in Electrical Appliances and Electronic Products; [Japan] Law for the Promotion of Effective Utilization of Resources; [Japan] Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. CAS numbers: 101-55-3, 2050-47-7, 49690-94-0, 40088-47-9, 36483-60-0, 68928-80-3, 63936-56-1, 1163-19-5, 32534-81-9, 32536-52-0.
Diisooctyl phthalate (DIOP)	0.1 mass% of article or mixture	N			France: Anti-Waste and Circular Economy Law 2020-105, CAS number: 27554-26-3
Colecalciferol	0.1 mass% of article or mixture	N			France: Anti-Waste and Circular Economy Law 2020-105, common synonym: Vitamin D3, CAS number: 67-97-0
Perfluorohexane-1-sulphonic acid and its salts	Intentionally added or 0.0000025 mass% of PFHxS or any of its salts in article	N			[EU] REACH Regulation (EC) No.1907/2006 Candidate List for Authorisation; [EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021, CAS numbers: 355-46-4, 68259-08-5, 3871-99-6, 93572-72-6, 55120-77-9, 68391-09-3, 82382-12-5, 1000597-52-3, 108427-54-9, 108427-55-0, 1187817-57-7, 1310480-24-0, 1310480-27-3, 1310480-28-4, 144116-10-9, 1462414-59-0, 153443-35-7, 189274-31-5, 202189-84-2, 213740-81-9, 341035-71-0, 341548-85-4, 350836-93-0, 41184-65-0, 41242-12-0, 421555-73-9, 421555-74-0, 425670-70-8, 70136-72-0, 72033-41-1, 910606-39-2 and 92011-17-1.
PFHxS-related compounds	Intentionally added or 0.0001 mass% of one or a combination of PFHxS-related compounds in article	N			[EU] Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021, CAS numbers: 148240-80-6, 161074-58-4, 1648540-20-8, 1893-52-3, 306974-63-0, 67584-57-0, 67584-61-6, 67906-70-1, 67906-71-2, 67939-61-1, 68081-83-4, 68227-98-5, 68298-74-8, 68957-53-9, 70900-36-6, 147029-28-5, 141607-32-1, 149652-30-2, 76848-59-4, 171561-95-8, 86525-43-1, 86525-48-6, 86525-51-1, 86525-52-2, 89863-48-9, 89863-49-0, 89863-50-3, 89863-55-8, 89863-56-9, 89863-63-8, 89863-64-9, 93416-31-0, 680187-86-4, 1648539-69-8, 306974-45-8, 111393-39-6, 55591-23-6, 423-50-7, 1270179-82-2, 1270179-93-5, 129813-71-4, 1427176-17-7, 1427176-20-2, 148684-79-1, 160901-25-7, 160901-26-8, 1645842-67-6, 1645850-46-9, 178094-71-8, 178535-22-3, 179005-06-2, 179005-07-3, 192662-29-6, 222716-67-8, 30295-56-8, 306973-47-7, 306974-19-6, 306980-27-8, 34455-03-3, 41997-13-1, 67584-48-9, 67939-92-8, 67969-65-7, 68239-74-7, 68259-15-4, 68298-09-9, 68555-75-9, 68608-13-9, 68608-14-0, 68957-61-9, 73772-33-5, 73772-34-6, 85665-64-1, 91081-99-1, 306975-84-8, 306976-55-6, 306978-65-4, 50598-28-2, 306977-10-6, 944578-05-6, 68957-32-4, 68891-98-5, 38850-60-1, 56372-23-7, 127133-66-8, 160336-17-4, 1645852-10-3, 1648534-82-0, 306974-28-7, 306975-62-2, 306975-85-9, 306976-25-0, 306977-58-2, 306978-04-1, 504396-13-8, 507225-08-3, 68259-38-1, 306979-40-8, 68555-90-8, 70776-36-2, 70900-40-2, 71487-20-2, 68867-60-7, 68867-62-9, 68877-32-7, 68227-87-2, 68227-94-1, 68227-96-3, 68228-00-2, 68298-78-2, 68299-39-8, 68329-56-6, 68555-91-9, 68555-92-0, 68568-77-4, 68586-13-0, 68586-14-1, 68649-26-3, 68797-76-2 and 68909-15-9.

<b>6.0 Revision history</b>		
REV:	Date:	Description:
3.6	16. Nov. 2022	Chapter 1.0 updated, other Chapters: remove old obsolete requirements and reorganize RoHS, REACH and IEC 62474 to own chapters. Chapter 5.0 IEC 62474 includes the relevant regulations that concern the electronic industry. <b>Please note that the RoHS, REACH and TSCA requirements are not repeated in the Chapter 5.0</b>
3.7	7. March 2023	Chapter 3.0 updated. 17. January 2023 added: 9 new substances. Chapter 4.0 updated, threshold levels presented more clearly and exceptions included. Chapter 5.0 updated. 17. January 2023 updated: C9-C14 PFCA and their salts, and C9-C14 PFCA-related substances (CAS numbers included). Added: PFAS
3.8	8. August 2023	Chapter 3.0 updated. 14. June 2023 added: 2 new substances. Chapter 5.0 updated: 22.7. 2023 PFAS CAS numbers updated to make several corrections and remove duplicate substances.
3.9	22. Feb. 2024	Chapter 3.0 updated. 23. Jan. 2024 added: 5 new substances. Chapter 5.0 updated: 23. Jan. 2024 added: 1 new substance (PCP and its salts and esters), updated: Formaldehyde: reportable applications, and reporting threshold, Halogenated Flame Retardants: reporting threshold.
4.0	12. Aug. 2024	Chapter 3.0 updated. 27. June 2024 added: 1 new substance. Chapter 5.0 updated: 21.7. 2024 added: 2 new substances and included PBDE (new second Threshold Level: Intentionally added)
4.1	22. May 2025	Chapter 3.0 updated. 7. November 2024 added: 1 new substance and 21. January 2025 added: 5 new substances. Chapter 4.0 updated. October 2024 updated: decaBDE and PIP (3:1) Chapter 5.0 updated 3.3.2025 threshold level (Certain azocolourants and azodyes), added: 2 substances (2 PFHxS groups)
4.2	26. August 2025	Chapter 3.0 updated. 25. June 2025 added: 3 new substances.
4.21	10. March 2026	Chapter 3.0 updated. 5. November 2025 added: 1 substance, 4. February 2026 added: 2 new substances.