



REACH - Declaration of Compliance

We hereby declare and guarantee that all products have been designed and manufactured in compliance with the EU directive 2015/863 on the restriction of the use of following chemicals substances.

- Are in compliance with European Union regulation 1907/2006 on **Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH)**, Annex XVII.
- Do not contain **Substances of Very High Concern (SVHCs)**, or if there are any SVHCs the content within the article is less than the 0.1% (wt/wt) as defined by REACH Article 57, Annex XIV Directive 67/548/EEC.
- Do not contain **Substances** listed in Authorization-list--annex-XIV, or if there are any of these substances they are allowed for a specific use as provided in the authorization list.
- Do not contain **Substances** listed in Restriction-list--annex-XVII.
 - Not applicable where RoHS exemptions 7(a) and/or 7(c)-1 are granted.
 - Not applicable where nickel is used as a plating or is part of lead frame composition.
- Do not contain any substance(s) meant for intentional release.

Substances of High Concern

	Substance Name	CAS Number
1	4,4'-Diaminodiphenylmethane	101-77-9
2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
4	Anthracene	120-12-7
5	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7
6	Bis(tributyltin)oxide (TBTO)	56-35-9
7	Benzyl Butyl Phthalate	85-68-7
8	Cobalt Dichloride	7646-79-9
9	Diarsenic pentaoxide	1303-28-2
10	Diarsenic Trioxide	1327-53-3
11	Dibutyl Phthalate (DBP)	84-74-2
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:	25637-99-4
	Alpha-hexabromocyclododecane	3194-55-6
	Beta-hexabromocyclododecane	134237-50-6
	Gamma-hexabromocyclododecane	134237-51-7
13	Lead Hydrogen Arsenate	134237-52-8
14	Sodium Dichromate,	7784-40-9
	Dihydrate	7789-12-0
15	Triethyl Arsenate	10588-01-9
16	Anthracene Oil	15606-95-8
17	Anthracene Oil, Anthracene Paste, Distn. Lights	90640-80-5
18	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-17-4
19	Anthracene Oil, Anthracene-Low	91995-15-2
20	Anthracene Oil, Anthracene Paste	90640-82-7
21	Coal Tar Pitch, High Temperature	90640-81-6
22	Aluminosilicate, Refractory Ceramic Fibers	65996-93-2
23	Zirconia Aluminosilicate, Refractory Ceramic Fibers	From EC Index no. 650-017-00-8
24	2,4,-Dinitrotoluene	From EC Index no. 650-017-00-8
25	Diisobutyl Phthalate	121-14-2
26	Lead Chromate	84-69-5
27	Lead Chromate Molybdate Sulfate Red (C.I. Pigment Red 104)	7758-97-6
28	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34)	12656-85-8
29	Tris(2-chloroethyl)phosphate	1344-37-2
30	Acrylamide	115-96-8
31	Trichloroethylene	79-06-1
32	Boric Acid	79-01-6
33	Disodium tetraborate, anhydrous	10043-35-3, 11113-50-1
34	Tetraboron disodium heptaoxide, hydrate	1330-43-4, 12179-04-3, 1303-96-4
35	Sodium chromate	12267-73-1
36	Potassium chromate	7775-11-3
37	Ammonium dichromate	7789-00-6
38	Potassium dichromate	7789-09-5
39	Cobalt(II) Sulfate	7778-50-9
40	Cobalt(II) Dinitrate	10124-43-3
		10141-05-6

41	Cobalt(II) Carbonate	513-79-1
42	Cobalt(II) Diacetate	71-48-7
43	2-Methoxyethanol	109-86-4
44	2-Ethoxyethanol	110-80-5
45	Chromium Trioxide	1333-82-0
46	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2
47	2-ethoxyethyl acetate	111-15-9
48	Strontium Chromate	7789-06-2
49	1,2-Benzenedicarboxylic Acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4
50	Hydrazine	302-01-2 7803-57-8
51	1-methyl-2-pyrrolidone	872-50-4
52	1,2,3-trichloropropane	96-18-4
53	1,2-Benzenedicarboxylic Acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71889-89-6
54	Calcium arsenate	7778-44-1
55	Bis(2-methoxyethyl ether)	111-96-6
56	Potassium hydroxyoctaoxodizinecatedi-chromate	11103-86-9
57	Lead dipicrate	6477-64-1
58	N-N-dimethylacetamide	127-19-5
59	Arsenic Acid	7778-39-4
60	2-methoxyaniline; o-anisidine	90-04-0
61	Trilead diarsenate	3687-31-8
62	1,2-dichloroethane	107-06-2
63	Pentazinc chromate octahydroxide	49663-84-5
64	Formaldehyde, oligomeric reaction products with aniline	25214-70-4
65	Bis(2-methoxyethyl) phthalate	117-82-8
66	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
67	Lead diazide, Lead azide	13424-46-9
68	Phenolphthalein	77-09-8
69	Dichromium tris(chromate)	24613-89-6
70	Lead styphnate	15245-44-0
71	2,2'-dichloro-4,4'-methylenedianiline	101-14-4
72	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
74	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	59653-74-6
75	Diboron trioxide	1303-86-2
76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2
77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1
78	Lead(II) bis(methanesulfonate)	17570-76-2
79	Formamide	75-12-7
80	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of	548-62-9

	Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	
81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5
86	Pentacosafuorotridecanoic acid	72629-94-8
87	Tricosafuorododecanoic acid	307-55-1
88	Henicosafuoroundecanoic acid	2058-94-8
89	Heptacosafuorotetradecanoic acid	376-06-7
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - [covering well-defined substances and UVCB substances, polymers and homologues]	
91	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]	
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7
94	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9
95	Methoxy acetic acid	625-45-6
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
97	Diisopentylphthalate (DIPP)	605-50-5
98	N-pentyl-isopentylphthalate	776297-69-9
99	1,2-Diethoxyethane	629-14-1
100	N,N-dimethylformamide; dimethyl formamide	68-12-2
101	Dibutyltin dichloride (DBT)	683-18-1
102	Acetic acid, lead salt, basic	51404-69-4
103	Basic lead carbonate (trileadbis(carbonate)dihydroxide)	1319-46-6
104	Lead oxide sulfate (basic lead sulfate)	12036-76-9
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9
106	Dioxobis(stearato)trilead	12578-12-0
107	Fatty acids, C16-18, lead salts	91031-62-8
108	Lead bis(tetrafluoroborate)	13814-96-5
109	Lead cyanamidate	20837-86-9
110	Lead dinitrate	10099-74-8
111	Lead oxide (lead monoxide)	1317-36-8
112	Lead tetroxide (orange lead)	1314-41-6
113	Lead titanium trioxide	12060-00-3
114	Lead Titanium Zirconium Oxide	12626-81-2
115	Pentalead tetraoxide sulphate	12065-90-6
116	Pyrochlore, antimony lead yellow	8012-00-8
117	Silicic acid, barium salt, lead-doped	68784-75-8

118	Silicic acid, lead salt	11120-22-2
119	Sulfurous acid, lead salt, dibasic	62229-08-7
120	Tetraethyllead	78-00-2
121	Tetralead trioxide sulphate	12202-17-4
122	Trilead dioxide phosphonate	12141-20-7
123	Furan	110-00-9
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9
125	Diethyl sulphate	64-67-5
126	Dimethyl sulphate	77-78-1
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
128	Dinoseb	88-85-7
129	4,4'-methylenedi-o-toluidine	838-88-0
130	4,4'-oxydianiline and its salts	101-80-4
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8
134	Biphenyl-4-ylamine	92-67-1
135	o-aminoazotoluene	97-56-3
136	o-Toluidine; 2-Aminotoluene	95-53-4
137	N-methylacetamide	79-16-3
138	1-bromopropane; n-propyl bromide	106-94-5
139	Cadmium	7440-43-9
140	Cadmium oxide	1306-19-0
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1
143	Dipentyl phthalate (DPP)	131-18-0
144	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCBand well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	
145	Cadmium sulphide	1306-23-6
146	Diethyl phthalate	84-75-3
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
148	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)	1937-37-7
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7
150	Lead di(acetate)	301-04-2
151	Trixylyl phosphate	25155-23-1
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
153	Sodium perborate; perboric acid, sodium salt	7632-04-4
154	Sodium peroxometaborate	
155	Cadmium chloride	10108-64-2
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7
157	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
158	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)	
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
160	Cadmium fluoride	7790-79-6
161	Cadmium sulphate	10124-36-4, 31119-53-6
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with \geq 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1
163	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] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	
164	1,3-propanesultone	1120-71-4
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
167	Nitrobenzene	98-95-3
168	Perfluorononan-1-oic-acid and its sodium and ammoniumsalts	375-95-1 21049-39-8 4149-60-4
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8
170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7
171	Nonadecafluorodecanoic acid (PFDA) and its sodium/ammonium salts	335-76-2, 3830-45-3, 3108-42-7
172	4-Heptylphenol (branched and linear)	
173	p-(1,1-dimethylpropyl) phenol	80-46-6

Restriction list (annex XVII)		
Name	CAS no.	Entry
Polychlorinated terphenyls (PCTs)	-	1
Chloroethene, Chloroethylene (Vinyl chloride)	75-01-4	2
Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 (See group members):	-	3
Hazard class 4.1	-	3
Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	-	3
Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	-	3
Hazard class 5.1.	-	3
Tris (2,3 dibromopropyl) phosphate	126-72-7	4
Benzene	71-43-2	5
Asbestos fibres	-	6
Actinolite	77536-66-4	6
Tremolite	77536-68-6	6
Crocidolite	12001-28-4	6
Amosite	12172-73-5	6
Chrysotile	12001-29-5, 132207-32-0	6
Anthophyllite	77536-67-5	6
Tris(aziridinyl)phosphin oxide	545-55-1	7
Polybromobiphenyls, Polybrominatedbiphenyls (PBB)	-	8
Polybromobiphenyls, Polybrominatedbiphenyls (PBB)	59536-65-1	8
Entry 9	-	9
Soap bark powder (Quillaja saponaria) and its derivatives containing saponines	68990-67-0	9
Benzidine and / or its derivatives	-	9
o-Nitrobenzaldehyde	552-89-6	9
Powder of the roots of Veratrum album and Veratrum nigrum	-	9
Wood powder	-	9
Powder of the roots of Helleborus viridis and Helleborus niger	-	9
Entry 10	-	10
Ammonium polysulphide	9080-17-5	10
Ammonium sulphide	12135-76-1	10
Ammonium hydrogen sulphide	12124-99-1	10
Volatile esters of bromoacetic acids	-	11
Methyl bromoacetate	96-32-2	11
Butyl bromoacetate	18991-98-5	11
Propyl bromoacetate	35223-80-4	11

