



REACH

CERTIFICATE OF COMPLIANCE

The products listed on the attached spreadsheet comply with the requirements of the restricted substances, as defined in Article 67 and Annex XVII (including all amendments), unless noted.

1	Triethyl arsenate	15606-95-8	10/28/2008
2	Sodium dichromate	7789-12-0, 10588-01-9	10/28/2008
3	Lead hydrogen arsenate	7784-40-9	10/28/2008
4	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	10/28/2008
5	Dibutyl phthalate (DBP)	84-74-2	10/28/2008
6	Diarsenic trioxide	1327-53-3	10/28/2008
7	Diarsenic pentaoxide	1303-28-2	10/28/2008
8	Bis(tributyltin) oxide (TBTO)	56-35-9	10/28/2008
9	Benzyl butyl phthalate (BBP)	85-68-7	10/28/2008
10	Anthracene	120-12-7	10/28/2008
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	10/28/2008
12	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	10/28/2008
13	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	10/28/2008
14	Tris(2-chloroethyl)phosphate	115-96-8	1/13/2010
15	Pitch, coal tar, high temp.	65996-93-2	1/13/2010
16	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	1/13/2010
17	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	1/13/2010

18	Lead chromate	7758-97-6	1/13/2010
19	Diisobutyl phthalate (DIBP)	84-69-5	1/13/2010
20	Anthracene oil, anthracene-low	90640-82-7	1/13/2010
21	Anthracene oil, anthracene paste, distn. lights	91995-17-4	1/13/2010
22	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	1/13/2010
23	Anthracene oil, anthracene paste	90640-81-6	1/13/2010
24	Anthracene oil	90640-80-5	1/13/2010
25	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	1/13/2010
26	Acrylamide	79-06-1	3/30/2010
27	Trichloroethylene	79-01-6	6/18/2010
28	Tetraboron disodium heptaoxide, hydrate	12267-73-1	6/18/2010
29	Sodium chromate	7775-11-3,	6/18/2010
30	Potassium dichromate	7778-50-9	6/18/2010
31	Potassium chromate	7789-00-6	6/18/2010
32	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	6/18/2010
33	Boric acid	10043-35-3, 11113-50-1	6/18/2010
34	Ammonium dichromate	7789-9-5,	6/18/2010
35	Cobalt(II) sulphate	10124-43-3	12/15/2010
36	Cobalt(II) dinitrate	10141-05-6	12/15/2010
37	Cobalt(II) diacetate	71-48-7	12/15/2010
38	Cobalt(II) carbonate	513-79-1	12/15/2010
39	Chromium trioxide	1333-82-0	12/15/2010
40	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	12/15/2010
41	2-Methoxyethanol	109-86-4	12/15/2010
42	2-Ethoxyethanol	110-80-5	12/15/2010
43	Strontium chromate	7789-6-2,	6/20/2011
44	Hydrazine	302-01-2, 7803-57-8	6/20/2011
45	2-Ethoxyethyl acetate	111-15-9	6/20/2011
46	1-Methyl-2-pyrrolidone (NMP)	872-50-4	6/20/2011
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	6/20/2011
48	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	6/20/2011
49	1,2,3-trichloropropane	96-18-4	6/20/2011
50	Cobalt dichloride	7646-79-9	2011/06/20 - 2008/10/28

51	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 ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight		12/19/2011
52	Trilead diarsenate	3687-31-8	12/19/2011
53	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	12/19/2011
54	Phenolphthalein	77-09-8	12/19/2011
55	Pentazinc chromate octahydroxide	49663-84-5	12/19/2011
56	N,N-dimethylacetamide	127-19-5	12/19/2011
57	Lead styphnate	15245-44-0	12/19/2011
58	Lead dipicrate	6477-64-1	12/19/2011
59	Lead diazide, Lead azide	13424-46-9	12/19/2011
60	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	12/19/2011
61	Dichromium tris(chromate)	24613-89-6	12/19/2011
62	Calcium arsenate	7778-44-1	12/19/2011
63	Bis(2-methoxyethyl) phthalate	117-82-8	12/19/2011
64	Bis(2-methoxyethyl) ether	111-96-6	12/19/2011
65	Arsenic acid	7778-39-4	12/19/2011
66	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 ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight		12/19/2011
67	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	12/19/2011
68	2-Methoxyaniline,o-Anisidine	90-04-0	12/19/2011
69	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	12/19/2011

70	1,2-Dichloroethane	107-06-2	12/19/2011
71	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	6/18/2012
72	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	6/18/2012
73	Lead(II) bis(methanesulfonate)	17570-76-2	6/18/2012
74	Formamide	75-12-7	6/18/2012
75	Diboron trioxide	1303-86-2	6/18/2012
76	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	6/18/2012
77	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	6/18/2012
78	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	6/18/2012
79	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	6/18/2012
80	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	6/18/2012
81	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	6/18/2012
82	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	110-71-4	6/18/2012
83	1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)	112-49-2	6/18/2012
84	Trilead dioxide phosphonate	12141-20-7	12/19/2012
85	Trilead bis(carbonate) dihydroxide	1319-46-6	12/19/2012
86	Tricosafuorododecanoic acid	307-55-1	12/19/2012
87	Tetralead trioxide sulphate	12202-17-4	12/19/2012
88	Tetraethyllead	78-00-2	12/19/2012
89	Sulfurous acid, lead salt, dibasic	62229-08-7	12/19/2012
90	Silicic acid, lead salt	11120-22-2	12/19/2012
91	Silicic acid ($H_{2}SiO_{5}$), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD),the substance is a member of the group entry of lead	68784-75-8	12/19/2012

	compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]		
92	Pyrochlore, antimony lead yellow	8012-00-8	12/19/2012
93	Pentalead tetraoxide sulphate	12065-90-6	12/19/2012
94	Pentacosafuorotridecanoic acid	72629-94-8	12/19/2012
95	Orange lead (lead tetroxide)	1314-41-6	12/19/2012
96	o-Toluidine	95-53-4	12/19/2012
97	o-aminoazotoluene	97-56-3	12/19/2012
98	N-pentyl-isopentylphthalate	776297-69-9	12/19/2012
99	N-methylacetamide	79-16-3	12/19/2012
100	N,N-dimethylformamide	68-12-2	12/19/2012
101	Methyloxirane (Propylene oxide)	75-56-9	12/19/2012
102	Methoxyacetic acid	625-45-6	12/19/2012
103	Lead titanium zirconium oxide	12626-81-2	12/19/2012
104	Lead titanium trioxide	12060-00-3	12/19/2012
105	Lead oxide sulfate	12036-76-9	12/19/2012
106	Lead monoxide (lead oxide)	1317-36-8	12/19/2012
107	Lead dinitrate	10099-74-8	12/19/2012
108	Lead cyanamidate	20837-86-9	12/19/2012
109	Lead bis(tetrafluoroborate)	13814-96-5	12/19/2012
110	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	12/19/2012
111	Heptacosafuorotetradecanoic acid	376-06-7	12/19/2012
112	Henicosafuoroundecanoic acid	2058-94-8	12/19/2012
113	Furan	110-00-9	12/19/2012
114	Fatty acids, C16-18, lead salts	91031-62-8	12/19/2012
115	Dioxobis(stearato)trilead	12578-12-0	12/19/2012
116	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	12/19/2012
117	Dimethyl sulphate	77-78-1	12/19/2012
118	Diisopentylphthalate	605-50-5	12/19/2012
119	Diethyl sulphate	64-67-5	12/19/2012
120	Dibutyltin dichloride (DBTC)	683-18-1	12/19/2012
121	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	12/19/2012
122	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-	85-42-7, 13149-00-3, 14166-21-3	12/19/2012

	cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]		
123	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	12/19/2012
124	Biphenyl-4-ylamine	92-67-1	12/19/2012
125	Acetic acid, lead salt, basic	51404-69-4	12/19/2012
126	[Phthalato(2-)]dioxotrilead	69011-06-9	12/19/2012
127	6-methoxy-m-toluidine (p-cresidine)	120-71-8	12/19/2012
128	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]		12/19/2012
129	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	12/19/2012
130	4-Aminoazobenzene	60-09-3	12/19/2012
131	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]		12/19/2012
132	4,4'-oxydianiline and its salts	101-80-4	12/19/2012
133	4,4'-methylenedi-o-toluidine	838-88-0	12/19/2012
134	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	12/19/2012
135	1-bromopropane (n-propyl bromide)	106-94-5	12/19/2012
136	1,2-Diethoxyethane	629-14-1	12/19/2012
137	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	12/19/2012
138	Pentadecafluorooctanoic acid (PFOA)	335-67-1	6/20/2013
139	Dipentyl phthalate (DPP)	131-18-0	6/20/2013
140	Cadmium oxide	1306-19-0	6/20/2013
141	Cadmium	7440-43-9	6/20/2013
142	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	6/20/2013
143	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]		6/20/2013
144	Trixylyl phosphate	25155-23-1	12/16/2013
145	Lead di(acetate)	301-04-2	12/16/2013
146	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	12/16/2013

147	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	12/16/2013
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	12/16/2013
149	Diethyl phthalate	84-75-3	12/16/2013
150	Cadmium sulphide	1306-23-6	12/16/2013
151	Sodium peroxometaborate	7632-4-4,	6/16/2014
152	Sodium perborate,perboric acid, sodium salt		6/16/2014
153	Cadmium chloride	10108-64-2	6/16/2014
154	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	68515-50-4	6/16/2014
155	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)		12/17/2014
156	Cadmium sulphate	10124-36-4, 31119-53-6	12/17/2014
157	Cadmium fluoride	7790-79-6	12/17/2014
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	12/17/2014
159	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	12/17/2014
160	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	12/17/2014
161	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	2014/12/17; 2008/10/28
162	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]		6/15/2015
163	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5, 68648-93-1	6/15/2015
164	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	12/17/2015
165	1,3-propanesultone	1120-71-4	12/17/2015
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	12/17/2015
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	12/17/2015
168	Nitrobenzene	98-95-3	12/17/2015
169	Benzo[def]chrysene	50-32-8	6/20/2016
170	p-(1,1-dimethylpropyl)phenol (PTAP)	80-46-6	1/12/2017

171	4-heptylphenol, branched and linear (4-HPbl)	-	1/12/2017
172	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	1/12/2017
173	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	1/12/2017
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	7/7/2017
175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	1/15/2018
176	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	-	1/15/2018
177	Chrysene	218-01-9, 1719-03-5	1/15/2018
178	Cadmium nitrate	10022-68-1, 10325-94-7	1/15/2018
179	Cadmium hydroxide	21041-95-2	1/15/2018
180	Cadmium carbonate	513-78-0	1/15/2018
181	Benz[a]anthracene	56-55-3, 1718-53-2	1/15/2018
182	benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride)(TMA)	552-30-7	6/27/2018
183	Dicyclohexyl phthalate (DCHP)	84-61-7	6/27/2018
184	Terphenyl, hydrogenated	61788-32-7	6/27/2018
185	Octamethylcyclotetrasiloxane(D4)	556-67-2	6/27/2018
186	Lead	7439-92-1	6/27/2018
187	Ethylenediamine	107-15-3	6/27/2018
188	Dodecamethylcyclohexasiloxane(D6)	540-97-6	6/27/2018
189	Disodium octaborate	12008-41-2	6/27/2018
190	Decamethylcyclopentasiloxane (D5)	541-02-6	6/27/2018
191	Benzo[ghi]perylene	191-24-2	6/27/2018
192	<u>Pyrene</u>	129-00-0; 1718-52-1	1/15/2019
193	<u>Phenanthrene</u>	85-01-8	1/15/2019
194	<u>Fluoranthene</u>	206-44-0; 93951-69-0	1/15/2019
195	<u>Benzo[k]fluoranthene</u>	207-08-9	1/15/2019
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	1/15/2019
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	1/15/2019
198	4-tert-butylphenol	98-54-4	7/16/2019
199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	7/16/2019
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	7/16/2019
201	2-methoxyethyl acetate	110-49-6	7/16/2019

202	Diisohexyl phthalate	71850-09-4	1/16/2020
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	1/16/2020
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	1/16/2020
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	1/16/2020
206	1-vinylimidazole	1072-63-5	6/25/2020
207	2-methylimidazole	693-98-1	6/25/2020
208	butyl 4-hydroxybenzoate	94-26-8	6/25/2020
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	6/25/2020
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	6/25/2020
211	Dioctyltin 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	-	6/25/2020
212	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	7/8/2021
213	Orthoboric acid, sodium salt	13840-56-7	7/8/2021
214	2,2-bis(bromomethyl)propane1,3-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)	3296-90-0, 36483-57-5, 1522-92-5, 96-13-9	7/8/2021
215	Glutaral	111-30-8	7/8/2021
216	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)	-	7/8/2021
217	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	7/8/2021
218	1,4-dioxane	123-91-1	7/8/2021
219	4,4'-(1-methylpropylidene)bisphenol	77-40-7	7/8/2021

Signature:



Name: Jill Scarnecchia

Title: Operations Manager Date: 9/20/2021