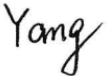


# REACH Initiative

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No	Manufacturer Part Number	Customer Part Number	Part Description
1	014-1027-05 ISS5.00	014-1027-05 ISS5.00	G8600 CONTROLLER

This letter is to assure that the parts supplied below do not intentionally and unintentionally contain any of the REACH Substances of Very High Concern (SVHC), as specified in the table according to the Candidate list published by ECHA (European Chemical Agency).

<http://echa.europa.eu/web/guest/candidate-list-table>

No	Substance Name	CAS No.	EC No.	SVHC Published Date
1	Anthracene	120-12-7	204-371-1	28/10/2008
2	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	28/10/2008
3	Dibutyl phthalate	84-74-2	201-557-4	28/10/2008
4	Cobalt dichloride	7646-79-9	231-589-4	28/10/2008
5	Diarsenic pentaoxide	1303-28-2	215-116-9	28/10/2008
6	Diarsenic trioxide	1327-53-3	215-481-4	28/10/2008
7	Sodium dichromate, dihydrate	10588-01-9	234-190-3	28/10/2008
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	28/10/2008
9	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0	28/10/2008
10	Hexabromocyclododecane (HBCDD)	3194-55-6	221-695-9	28/10/2008
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	28/10/2008
12	Bis(tributyltin) oxide,hexabutylstannoxane	56-35-9	200-268-0	28/10/2008
13	Lead hydrogen arsenate	7784-40-9	232-064-2	28/10/2008
14	Triethyl arsenate	15606-95-8	427-700-2	28/10/2008
15	Benzyl butyl phthalate	85-68-7	201-622-7	28/10/2008
16	2,4-Dinitrotoluene	121-14-2	204-450-0	13/01/2010
17	Anthracene oil	90640-80-5	292-602-7	13/01/2010
18	Anthracene oil, anthracene paste	90640-81-6	292-603-2	13/01/2010
19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	13/01/2010

20	Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	13/01/2010
21	Anthracene oil, anthracene-low	90640-82-7	292-604-8	13/01/2010
22	Diisobutyl phthalate	84-69-5	201-553-2	13/01/2010
23	Lead chromate	7758-97-6	231-846-0	13/01/2010
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	235-759-9	13/01/2010
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	13/01/2010
26	Pitch, coal tar, high temp.	65996-93-2	266-028-2	13/01/2010
27	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	13/01/2010
28	Acrylamide	79-06-1	201-173-7	30/03/2010
29	Trichloroethylene	79-01-6	201-167-4	18/06/2010
30	Boric acid	10043-35-3	233-139-2	18/06/2010
31	Disodium tetraborate, anhydrous	1330-43-4	215-540-4	18/06/2010
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	18/06/2010
33	Sodium chromate	7775-11-3	231-889-5	18/06/2010
34	Potassium chromate	7789-00-6	232-140-5	18/06/2010
35	Ammonium dichromate	7789-09-5	232-143-1	18/06/2010
36	Potassium dichromate	7778-50-9	231-906-6	18/06/2010
37	2-Ethoxyethanol	110-80-5	-	15/12/2010
38	2-Methoxyethanol	109-86-4	-	15/12/2010
39	Chromic acid	7738-94-5	-	15/12/2010
40	Chromium trioxide	1333-82-0	-	15/12/2010
41	Cobalt(II) carbonate	513-79-1	-	15/12/2010
42	Cobalt(II) diacetate	71-48-7	-	15/12/2010
43	Cobalt(II) dinitrate	10141-05-6	-	15/12/2010
44	Cobalt(II) sulphate	10124-43-3	-	15/12/2010
45	1,2,3-Trichloropropane	96-18-4	202-486-1	20/06/2011
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	20/06/2011
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	20/06/2011
48	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	20/06/2011
49	2-Ethoxyethyl acetate	111-15-9	203-839-2	20/06/2011
50	Hydrazine	302-01-2 / 7803-57-8	206-114-9	20/06/2011
51	Strontium chromate	7789-06-2	232-142-6	20/06/2011
52	Dichromium tris(chromate)	24613-89-6	246-356-2	19/12/2011
53	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8	19/12/2011
54	Pentazinc chromate octahydroxide	49663-84-5	256-418-0	19/12/2011
55	Aluminosilicate Refractory Ceramic Fibres (RCF)	-	-	19/12/2011
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	-	-	19/12/2011

57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	19/12/2011
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	19/12/2011
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	19/12/2011
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	19/12/2011
61	1,2-Dichloroethane	107-06-2	203-458-1	19/12/2011
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	19/12/2011
63	Arsenic acid	7778-39-4	231-901-9	19/12/2011
64	Calcium arsenate	7778-44-1	231-904-5	19/12/2011
65	Trilead diarsenate	3687-31-8	222-979-5	19/12/2011
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	19/12/2011
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	19/12/2011
68	Phenolphthalein	77-09-8	201-004-7	19/12/2011
69	Lead azide Lead diazide	13424-46-9	236-542-1	19/12/2011
70	Lead styphnate	15245-44-0	239-290-0	19/12/2011
71	Lead dipicrate	6477-64-1	229-335-2	19/12/2011
72	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C-I-Solvent Blue 4) [with $\geq 0$ -1% of Michler's ketone (EC No- 202-027-5) or Michler's base (EC No- 202-959-2)]	6786-83-0	229-851-8	18/06/2012
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	18/06/2012
74	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)	59653-74-6	423-400-0	18/06/2012
75	Diboron trioxide	1303-86-2	215-125-8	18/06/2012
76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	18/06/2012
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	209-218-2	18/06/2012
78	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	18/06/2012
79	Formamide	75-12-7	200-842-0	18/06/2012
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 Michler's ketone (EC No- 202-027-5) or Michler's base (EC No- 202-959-2)]	548-62-9	208-953-6	18/06/2012
81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	18/06/2012
82	[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	219-943-6	18/06/2012

83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	18/06/2012
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	18/06/2012
85	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	19/12/2012
86	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	19/12/2012
87	Henicosaflluoroundecanoic acid	2058-94-8	218-165-4	19/12/2012
88	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	19/12/2012
89	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3]	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	19/12/2012
90	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	19/12/2012
91	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	19/12/2012
92	Lead dinitrate	10099-74-8	233-245-9	19/12/2012
93	Silicic acid, lead salt	11120-22-2	234-363-3	19/12/2012
94	4-Aminoazobenzene	60-09-3	200-453-6	19/12/2012
95	Lead titanium zirconium oxide	12626-81-2	235-727-4	19/12/2012
96	Lead monoxide (lead oxide)	1317-36-8	215-267-0	19/12/2012
97	o-Toluidine	95-53-4	202-429-0	19/12/2012
98	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	19/12/2012
99	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	272-271-5	19/12/2012
100	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	19/12/2012
101	Furan	110-00-9	203-727-3	19/12/2012
102	N,N-dimethylformamide	68-12-2	200-679-5	19/12/2012
103	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	19/12/2012
104	4-Nonylphenol, branched and linear	-	-	19/12/2012
105	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	19/12/2012
106	Diethyl sulphate	64-67-5	200-589-6	19/12/2012
107	Dimethyl sulphate	77-78-1	201-058-1	19/12/2012
108	Lead oxide sulfate	12036-76-9	234-853-7	19/12/2012
109	Lead titanium trioxide	12060-00-3	235-038-9	19/12/2012
110	Acetic acid, lead salt, basic	257-175-3	257-175-3	19/12/2012
111	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	19/12/2012
112	Bis(pentabromophenyl) ether (decabromodiphenyl ether: DecaBDE)	1163-19-5	214-604-9	19/12/2012
113	N-methylacetamide	79-16-3	201-182-6	19/12/2012

114	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	19/12/2012
115	1,2-Diethoxyethane	629-14-1	211-076-1	19/12/2012
116	Tetralead trioxide sulphate	235-380-9	235-380-9	19/12/2012
117	N-pentyl-isopentylphthalate	776297-69-9	-	19/12/2012
118	Dioxobis(stearato)trilead	12578-12-0	235-702-8	19/12/2012
119	Tetraethyllead	78-00-2	201-075-4	19/12/2012
120	Pentalead tetraoxide sulphate	12065-90-6	235-067-7	19/12/2012
121	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	19/12/2012
122	Tricosafuorododecanoic acid	307-55-1	206-203-2	19/12/2012
123	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	19/12/2012
124	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	19/12/2012
125	Methoxyacetic acid	625-45-6	210-894-6	19/12/2012
126	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	19/12/2012
127	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	19/12/2012
128	Trilead dioxide phosphonate	12141-20-7	235-252-2	19/12/2012
129	o-aminoazotoluene	202-591-2	202-591-2	19/12/2012
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	19/12/2012
131	4,4'-oxydianiline and its salts	101-80-4	202-977-0	19/12/2012
132	Orange lead (lead tetroxide)	1314-41-6	215-235-6	19/12/2012
133	Biphenyl-4-ylamine	92-67-1	202-177-1	19/12/2012
134	Diisopentylphthalate	605-50-5	210-088-4	19/12/2012
135	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	19/12/2012
136	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	19/12/2012
137	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	19/12/2012
138	Lead cyanamidate	20837-86-9	244-073-9	19/12/2012
139	Cadmium	7440-43-9	213-152-8	20/06/2013
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	20/06/2013
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	20/06/2013
142	Dipentyl phthalate (DPP)	131-18-0	205-017-9	20/06/2013
143	4-Nonylphenol, branched and linear, ethoxylated	-	-	20/06/2013
144	Cadmium oxide	1306-19-0	215-146-2	20/06/2013
145	Cadmium sulphide	1306-23-6	215-147-8	16/12/2013
146	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	217-710-3	16/12/2013
147	Dihexyl phthalate	84-75-3	201-559-5	16/12/2013
148	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	202-506-9	16/12/2013
149	Trixylyl phosphate	25155-23-1	246-677-8	16/12/2013
150	Disodium 3,3'-[[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)	573-58-0	209-358-4	16/12/2013
151	Lead di(acetate)	301-04-2	206-104-4	16/12/2013
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	16/06/2014
153	Sodium perborate; perboric acid, sodium salt	-	239-172-9; 234-390-0	16/06/2014

154	Sodium peroxometaborate	7632-04-4	231-556-4	16/06/2014
155	Cadmium chloride	10108-64-2	233-296-7	16/06/2014
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	17/12/2014
157	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	17/12/2014
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)	-	-	17/12/2014
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	17/12/2014
160	Cadmium fluoride	7790-79-6	232-222-0	17/12/2014
161	Cadmium sulphate	10124-36-4,31119-53-6	233-331-6	17/12/2014
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	271-094-0	15/6/2015
		68648-93-1	272-013-1	
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]	-	-	15/6/2015
164	Perfluorononan-1-oi-c-acid and its sodium and ammonium salts	375-95-1	206-801-3	17/12/2015
		21049-39-8		
		4149-60-4		
165	Nitrobenzene	98-95-3	202-716-0	17/12/2015
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	17/12/2015
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	17/12/2015
168	1,3-propanesultone	1120-71-4	214-317-9	17/12/2015
169	Benzo[def]chrysene	50-32-8	200-028-5	20/6/2016
170	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	01/12/2017
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	-	01/12/2017
	Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3	-	
	Ammonium nonadecafluorodecanoate	3108-42-7	221-470-5	
	Nonadecafluorodecanoic acid	335-76-2	206-400-3	

172	4-heptylphenol, branched and linear	-	-	01/12/2017
173	4,4'-isopropylidenediphenol	80-05-7	201-245-8	01/12/2017
174	Perfluorohexane-1-sulphonic acid and its salts	-	-	07/07/2017
175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	15/01/2018
176	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	-	-	15/01/2018
177	Chrysene	218-01-9, 1719-03-5	205-923-4	15/01/2018
178	Cadmium nitrate	10022-68-1, 10325-94-7	233-710-6	15/01/2018
179	Cadmium hydroxide	21041-95-2	244-168-5	15/01/2018
180	Cadmium carbonate	513-78-0	208-168-9	15/01/2018
181	Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6	15/01/2018

If substances from the candidate list are contained in the packaging and/or products supplied, please report to us the product name / substance & % by weight of substance in product.

Company Stamp:



Date: 2025.04.01

Doc.No: FRM-EMS-017 Rev 2