

## REACH Declaration

### Attention: All Customers

Central Technologies hereby declares that all products delivered to our customers are fully in compliance with the requirements of REACH Regulation (EC) No 1907/2006 of the European Parliament and of the European Council concerning the Registration, Evaluation, Authorization and Restriction of Chemical substances entered into force on 1 June 2007.

According to Article 67 REACH, any supplier of an article shall not intend to use the hazardous substances listed in Annex XVII. Central Technologies also declares that none of the substances restricted under REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) Annex XVII is present in our products (and package) supplied to our customers.

The candidate list is subject to change from time to time, and the Candidate List now contains 233 SVHCs. Central Technologies nowadays merely promises the 233 Substances of Very High Concern (SVHC) in products are less than 0.1% w/w (less than 1000mg/kg, ppm).

If there is any deviation to the requirements of REACH, Central Technologies will take the responsibility based on mutual agreement.

Please refer to the detailed REACH information at website below:

1. REACH SVHC Substances List-233  
<https://echa.europa.eu/candidate-list-table>
2. Substances restricted under REACH, Annex XVII  
<https://echa.europa.eu/substances-restricted-under-reach>

Agreed and accepted by:  
Product Manager: Anthony Haro

Signature:



Date: 2023/02/10

## REACH SVHC List -233

No.	Substance of very high concern	CAS number	EC number	Reason for Inclusion
1	Anthracene	120-12-7	204-371-1	PBT (article 57d)
2	4,4'-Diaminodiphenylmethane	101-77-9	202-974-4	Carcinogenic (article 57a)
3	Dibutyl phthalate (DBP)	84-74-2	201-557-4	Toxic for reproduction (article 57c)
4	Cobalt dichloride	7646-79-9	231-589-4	Carcinogenic (article 57a)
5	Diarsenic pentaoxide	1303-28-2	215-116-9	Carcinogenic (article 57a)
6	Diarsenic trioxide	1327-53-3	215-481-4	Carcinogenic (article 57a)
7	Sodium dichromate	7789-12-0 and 10588-01-9	234-190-3	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	VPvB (article 57e)
9	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0	Equivalent level of concern having probable serious effects to the environment (Article 57 f); Toxic for reproduction (article 57c)
10	Hexabromocyclododecane (HBCDD) and all Major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	247-148-4 and 221-695-9	PBT (article 57d)
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	PBT and vPvB (articles 57d and 57e)
12	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	PBT (article 57d)
13	Lead hydrogen arsenate	7784-40-9	232-064-2	Carcinogenic and toxic for reproduction (articles 57a and 57c)
14	Triethyl arsenate	15606-95-8	427-700-2	Carcinogenic (article 57a)
15	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	Toxic for reproduction (article 57c)
16	Anthracene oil	90640-80-5	292-602-7	Carcinogenic 1), PBT and vPvB (articles 57a, 57d and 57e)
17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	Carcinogenic 2), mutagenic 3), PBT and vPvB (articles 57a, 57b, 57d and 57e)
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	Carcinogenic 2), mutagenic 3), PBT and vPvB (articles 57a, 57b, 57d and 57e)
19	Anthracene oil, anthracene-low	90640-82-7	292-604-8	Carcinogenic 2), mutagenic 3), PBT and vPvB (articles 57a, 57b, 57d and 57e)
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2	Carcinogenic 2), mutagenic 3), PBT and vPvB (articles 57a, 57b, 57d and 57e)
21	Pitch, coal tar, high temp.	65996-93-2	266-028-2	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
22	2,4-Dinitrotoluene	121-14-2	204-450-0	Carcinogenic (article 57a)
23	Diisobutyl phthalate	84-69-5	201-553-2	Toxic for reproduction (article 57c)
24	Lead chromate	7758-97-6	231-846-0	Carcinogenic and toxic for reproduction (articles 57 a and 57c)
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	235-759-9	Carcinogenic and toxic for reproduction (articles 57a and 57c)
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	Carcinogenic and toxic for reproduction (articles 57a and 57c)
27	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	Toxic for reproduction (article 57c)
28	Acrylamide	79-06-1	210-173-7	Carcinogenic and mutagenic (articles 57a and 57b)
29	Trichloroethylene	79-01-6	201-167-4	Carcinogenic (article 57a)
30	Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4	Toxic for reproduction (article 57c)
31	Disodium tetraborate, anhydrous	1303-96-4 1300-43-4 12179-04-3	215-540-4	Toxic for reproduction (article 57c)
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	Toxic for reproduction (article 57c)
33	Sodium chromate	7775-11-3	231-889-5	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)
34	Potassium chromate	7789-00-6	232-140-5	Carcinogenic and mutagenic (articles 57a and 57b)
35	Ammonium dichromate	7789-09-5	232-143-1	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)
36	Potassium dichromate	7778-50-9	231-906-6	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)
37	Cobalt(II) sulphate	10124-43-3	233-334-2	Carcinogenic and toxic for reproduction (articles 57a and 57c)
38	Cobalt(II) dinitrate	10141-05-6	233-402-1	Carcinogenic and toxic for reproduction (articles 57a and 57c)
39	Cobalt(II) carbonate	513-79-1	208-169-4	Carcinogenic and toxic for reproduction (articles 57a and 57c)
40	Cobalt(II) diacetate	71-48-7	200-755-8	Carcinogenic and toxic for reproduction (articles 57a and 57c)
41	2-Methoxyethanol	109-86-4	203-713-7	Toxic for reproduction (article 57c)
42	2-Ethoxyethanol	110-80-5	203-804-1	Toxic for reproduction (article 57c)
43	Chromium trioxide	1333-82-0	215-607-8	Carcinogenic and mutagenic (articles 57a and 57b)
44	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	7738-94-5 - 13530-68-2	231-801-5 - 236-881-5	Carcinogenic (article 57a)
45	1,2-Benzenedicarboxylic acid, di-C6 –8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1	Toxic for reproduction (article 57c)
46	1,2,3-trichloropropane	96-18-4	276-158-1	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

47	1-methyl-2-pyrrolidone	872-50-4	212-828-1	Toxic for reproduction (article 57c)
48	Hydrazine	7803-57-8 302-01-2	206-114-9	Carcinogenic (article 57a)
49	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	271-084-6	Toxic for reproduction (article 57c)
50	Strontium chromate	7789-06-2	232-142-6	Carcinogenic (article 57a)
51	2-ethoxyethyl acetate	111-15-9	203-839-2	Toxic for reproduction (article 57c)
52	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-008 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, and fulfill the three following conditions: a) oxides of aluminum, 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 micrometers (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)
53	Calcium arsenate	7778-44-1	231-904-5	Carcinogenic (article 57 a)
54	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	Toxic for reproduction (article 57 c)
55	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, labeling 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 micrometers (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)
56	Potassium Hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8	Carcinogenic (article 57 a)
57	Lead dipicrate	6477-64-1	229-335-2	Toxic for reproduction (article 57 c)
58	N,N-dimethylacetamide	127-19-5	204-826-4	Toxic for reproduction (article 57 c)
59	Arsenic acid	7778-39-4	231-901-9	Carcinogenic (article 57 a)
60	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	Carcinogenic (article 57 a)
61	Trilead diarsenate	3687-31-8	222-979-5	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
62	1,2-dichloroethane	107-06-2	203-458-1	Carcinogenic (article 57 a)
63	Pentazine chromate octahydroxide	49663-84-5	256-418-0	Carcinogenic (article 57 a)
64	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	Equivalent level of concern having probable serious effects to the environment (article 57 f)
65	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	Carcinogenic (article 57 a)
66	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	Toxic for reproduction (article 57 c)
67	Lead diazide, Lead azide	13424-46-9	236-542-1	Toxic for reproduction (article 57 c)
68	Lead styphnate	15245-44-0	239-290-0	Toxic for reproduction (article 57 c)
69	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	Carcinogenic (article 57 a)
70	Phenolphthalein	77-09-8	201-004-7	Carcinogenic (article 57 a)
71	Dichromium tris(chromate)	24613-89-6	246-356-2	Carcinogenic (article 57 a)
72	Formamide	75-12-7	200-842-0	Toxic for reproduction (article 57 c)
73	[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	219-943-6	Carcinogenic (article 57 a)
74	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	Carcinogenic (article 57 a)
75	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	Carcinogenic (article 57 a)
76	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione(TGIC)	2451-62-9	219-514-3	Mutagenic (article 57 b)
77	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with > 0.1% of Michler's Keytone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	229-851-8	Carcinogenic (article 57 a)
78	Diboron trioxide	1303-86-2	215-125-8	Toxic for reproduction (article 57 c)

79	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	Toxic for reproduction (article 57 c)
80	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	Toxic for reproduction (article 57 c)
81	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ? 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	Carcinogenic (article 57 a)
82	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	Toxic for reproduction (article 57 c)
83	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	423-400-0	Mutagenic (article 57 b)
84	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ? 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	Carcinogenic (article 57 a)
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	PBT (Article 57 d); vPvB (Article 57 e)
86	Pentacosfluorotridecanoic acid	72629-94-8	276-745-2	vPvB (Article 57 e)
87	Tricosfluorododecanoic acid	307-55-1	206-203-2	vPvB (Article 57 e)
88	Henicosfluoroundecanoic acid	2058-94-8	218-165-4	vPvB (Article 57 e)
89	Heptacosfluorotetradecanoic acid	376-06-7	206-803-4	vPvB (Article 57 e)
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	Equivalent level of concern having probable serious effects to human health (Article 57 f)
91	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substance and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	Equivalent level of concern having probable serious effects to human health (Article 57 f)
92	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	247-094-1 243-072-0 256-356-4 260-566-1	Equivalent level of concern having probable serious effects to human health (Article 57 f)
93	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number 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]			Equivalent level of concern having probable serious effects to the environment (Article 57 f)
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]			Equivalent level of concern having probable serious effects to the environment (Article 57 f)
95	Methoxyacetic	625-45-6	210-894-6	Toxic for reproduction (Article 57 c)
96	N,N-dimethylformamide	68-12-2	200-679-5	Toxic for reproduction (Article 57 c)
97	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	Toxic for reproduction (Article 57 c)
98	Lead monoxide (lead oxide)	1317-36-8	215-267-0	Toxic for reproduction (Article 57 c)
99	Orange lead (lead tetroxide)	1314-41-6	215-235-6	Toxic for reproduction (Article 57 c)
100	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	Toxic for reproduction (Article 57 c)
101	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	Toxic for reproduction (Article 57 c)
102	Lead titanium trioxide	12060-00-3	235-038-9	Toxic for reproduction (Article 57 c)
103	Lead titanium zirconium oxide	12626-81-2	235-727-4	Toxic for reproduction (Article 57 c)
104	Silicic acid, lead salt	11120-22-2	234-363-3	Toxic for reproduction (Article 57 c)
105	Silicic acid (H <sub>2</sub> SiO <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	Toxic for reproduction (Article 57 c)
106	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	Toxic for reproduction (Article 57 c)
107	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	Carcinogenic (Article 57a); Mutagenic (Article 57b)
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	Toxic for reproduction (Article 57 c)
109	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	Toxic for reproduction (Article 57 c)
110	N-pentyl-isopentylphthalate	77297-69-9		Toxic for reproduction (Article 57 c)
111	1,2-Diethoxyethane	629-14-1	211-076-1	Toxic for reproduction (Article 57 c)
112	Acetic acid, lead salt, basic	51404-69-4	257-175-3	Toxic for reproduction (Article 57 c)
113	Lead oxide sulfate	12036-76-9	234-853-7	Toxic for reproduction (Article 57 c)
114	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	Toxic for reproduction (Article 57 c)
115	Dioxobis(stearato)trilead	12578-12-0	235-702-8	Toxic for reproduction (Article 57 c)

116	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	Toxic for reproduction (Article 57 c)
117	Lead cyanamidate	20837-86-9	244-073-9	Toxic for reproduction (Article 57 c)
118	Lead dinitrate	10099-74-8	233-245-9	Toxic for reproduction (Article 57 c)
119	Pentalead tetraoxide sulphate	12065-90-6	235-067-7	Toxic for reproduction (Article 57 c)
120	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	Toxic for reproduction (Article 57 c)
121	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	Toxic for reproduction (Article 57 c)
122	Tetraethyllead	78-00-2	201-075-4	Toxic for reproduction (Article 57 c)
123	Tetralead trioxide sulphate	12202-17-4	235-380-9	Toxic for reproduction (Article 57 c)
124	Trilead dioxide phosphonate	12141-20-7	235-252-2	Toxic for reproduction (Article 57 c)
125	Furan	110-00-9	203-727-3	Carcinogenic (Article 57a)
126	Diethyl sulphate	64-67-5	200-589-6	Carcinogenic (Article 57a); Mutagenic (Article 57b)
127	Dimethyl sulphate	77-78-1	201-058-1	Carcinogenic (Article 57a)
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	Toxic for reproduction (Article 57 c)
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	Toxic for reproduction (Article 57 c)
130	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	Carcinogenic (Article 57a)
131	4,4'-oxydianiline and its salts	101-80-4	202-977-0	Carcinogenic (Article 57a); Mutagenic (Article 57b)
132	4-Aminoazobenzene	60-9-3	200-453-6	Carcinogenic (Article 57a)
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	Carcinogenic (Article 57a)
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	Carcinogenic (Article 57a)
135	Biphenyl-4-ylamine	92-67-1	202-177-1	Carcinogenic (Article 57a)
136	o-aminoazotoluene	97-56-3	202-591-2	Carcinogenic (Article 57a)
137	o-Toluidine	95-53-4	202-429-0	Carcinogenic (Article 57a)
138	N-methylacetamide	79-16-3	201-182-6	Toxic for reproduction (Article 57 c)
139	Cadmium	7440-43-9	231-152-8	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
140	Ammonium Pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
142	Dipentyl phthalate (DPP)	131-18-0	205-017-9	Toxic for reproduction (Article 57 c)
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]			Equivalent level of concern having probable serious effects to the environment (Article 57 f)
144	Cadmium oxide	1306-19-0	215-146-2	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
145	Cadmium sulphide	1306-23-6	215-147-8	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
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	Carcinogenic (Article 57a)
147	Dihexyl phthalate	84-75-3	201-559-5	Toxic for reproduction (Article 57 c);
148	Imidazolidine-2-thione; (2-imidazolone-2-thiol)	96-45-7	202-506-9	Toxic for reproduction (Article 57 c);
149	Trixylyl phosphate	25155-23-1	246-677-8	Toxic for reproduction (Article 57 c);
150	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-dylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	Carcinogenic (Article 57a)
151	Lead di(acetate)	301-04-2	206-104-4	Toxic for reproduction (Article 57 c);
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	Toxic for reproduction (Article 57 c)
153	Sodium perborate; perboric acid, sodium salt	-	239-172-9; 234-390-0	Toxic for reproduction (Article 57 c)
154	Sodium peroxometaborate	7632-04-4	231-556-4	Toxic for reproduction (Article 57 c)
155	Cadmium chloride	10108-64-2	233-296-7	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	PBT (Article 57 d); vPvB (Article 57 e)
157	2-ethylhexyl 10-ethyl-4,4-dicytol-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	Toxic for reproduction (Article 57 c)
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-[(ethylhexyl)-2-oxoethyl]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	Toxic for reproduction (Article 57 c)
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	25973-55-1	247-384-8	PBT (Article 57 d); vPvB (Article 57 e)

	(UV-328)			
160	Cadmium fluoride	7790-79-6	232-222-0	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
161	Cadmium sulphate	10124-36-4, 31119-53-6	233-331-6	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkylesters; 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	271-094-0, 272-013-1	Toxic for reproduction (Article 57 c)
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]	-	-	vPvB (Article 57e)
164	1,3-propanesultone	1120-71-4	214317-9	Carcinogenic (Article 57 a)
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	vPvB (Article 57 e)
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	vPvB (Article 57 e)
167	Nitrobenzene	98-95-3	202-716-0	Toxic for reproduction (Article 57 c)
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	Toxic for reproduction (Article 57 c) PBT (Article 57 d)
169	Benzo[def]chrysene	50-32-8	200-028-5	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57 d) vPvB (Article 57 e)
170	4,4'-isopropylidenediphenol Bisphenol A; BPA	80-05-7	201-245-8	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) – environment) Endocrine disrupting properties (Article 57(f)-human health)
171	4-heptylphenol, branched and linear 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	-	-	Equivalent level of concern having probable serious effects to environment (Article 57 f)
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid Ammonium nonadecafluorodecanoate Decanoic acid, nonadecaluo-, sodium salt	335-76-2 3108-42-7 3830-45-3	206-400-3 221-470-5 -	Toxic for reproduction (Article 57c) PBT (Article 57 d)
173	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	Equivalent level of concern having probable serious effects to environment (Article 57 f)
174	Perfluorohexane-1-sulphonic acid and its Salts; PFHxS	-	-	vPvB (Article 57e)
175	Benz[a]anthracene	56-55-3 1718-53-2	200-280-6	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
176	Cadmium carbonate	513-78-0	208-168-9	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) – human health)
177	Cadmium hydroxide	21041-95-2	244-168-5	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f)-human health)
178	Cadmium nitrate	10022-68-1 10325-94-7	233-710-6	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f)-human health)
179	Chrysene	218-01-9 1719-03-5	205-923-4	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
180	Dodecachloropentacyclo[12.2.1.16,9.02,13.0 5,10]octadeca-7, 15-diene ('Dechlorane Plus'™) covering any of its individual anti- and syn-isomers or any combination thereof	-	-	vPvB (Article 57e)

181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear (4-HPbl)	-	-	Endocrine disrupting properties (Article 57(f)-environment)
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA	552-30-7	209-008-0	Respiratory sensitising properties (Article 57(f) human health)
183	Benzo[ghi]perylene	191-24-2	205-883-8	PBT (Article 57d) vPvB (Article 57e)
184	Decamethylcyclotrasiloxane D5	541-02-6	208-764-9	PBT (Article 57d) vPvB (Article 57e)
185	Dicyclohexyl phthalate DCHP	84-61-7	201-545-9	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) human health)
186	Disodium octaborate	12008-41-2	234-541-0	Toxic for reproduction (Article 57c)
187	Dodecamethylcyclotrasiloxane D6	540-97-6	208-762-8	PBT (Article 57d) vPvB (Article 57e)
188	Ethylenediamine EDA	107-15-3	203-468-6	Respiratory sensitising properties (Article 57(f) human health)
189	Lead	7439-92-1	231-100-4	Toxic for reproduction (Article 57c)
190	Octamethylcyclotrasiloxane D4	556-67-2	209-136-7	PBT (Article 57d) vPvB (Article 57e)
191	Terphenyl, hydrogenated	61788-32-7	262-967-7	vPvB (Article 57e)
192	,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC	15087-24-8	239-139-9	Endocrine disrupting properties (Article 57(f) – environment)
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	Toxic for reproduction (Article 57c)
194	Benzo[k]fluoranthene	207-08-9	205-916-6	<ul style="list-style-type: none"> <li>• Carcinogenic (Article 57a)</li> <li>• PBT (Article 57d)</li> <li>• vPvB (Article 57e)</li> </ul>
195	Fluoranthene	206-44-0 93951-69-0	205-912-4	<ul style="list-style-type: none"> <li>• PBT (Article 57d)</li> <li>• vPvB (Article 57e)</li> </ul>
196	Phenanthrene	85-01-8	201-581-5	<ul style="list-style-type: none"> <li>• vPvB (Article 57e)</li> </ul>
197	Pyrene	129-00-0 1718-52-1	204-927-3	<ul style="list-style-type: none"> <li>• PBT (Article 57d)</li> <li>• vPvB (Article 57e)</li> </ul>
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides  Covering any of their individual isomers and combinations thereof	-	-	<ul style="list-style-type: none"> <li>• Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)</li> <li>• Equivalent level of concern having probable serious effects to the environment (Article 57(f) – environment)</li> </ul>
199	2-methoxyethyl acetate	110-49-6	203-772-9	Toxic for reproduction (Article 57c)
200	4-tert-butylphenol	98-54-4	202-679-0	Endocrine disrupting properties (Articles 57(f) – environment)
201	Tris(4-nonylphenyl, branched and linear) Phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	Endocrine disrupting properties (Article 57(f) – environment)
202	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	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)
203	Diisohexyl phthalate	71850-09-4	276-090-2	Toxic for reproduction (Article 57c)
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	Toxic for reproduction (Article 57c)
205	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	Toxic for reproduction (Article 57c)
206	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	Toxic for reproduction (Article 57c)
207	Butyl 4-hydroxybenzoate	202-318-7	94-26-8	Endocrine disrupting properties (Article 57(f) – Human health)
208	2-methylimidazole	211-765-7	693-98-1	Toxic for reproduction (Article 57c)
209	1-vinylimidazole	214-012-0	1072-63-5	Toxic for reproduction (Article 57c)
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7	Toxic for reproduction (Article 57c)
211	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			Toxic for reproduction (Article 57c)
	dioctyltin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs.	91648-39-4	293-901-5	
	Stannane, dioctyl-, bis(coco acyloxy) derivs.			
	Diocetyl tin dilaurate	3648-18-8	222-883-3	
212	1,4-dioxane	123-91-1	204-661-8	<ul style="list-style-type: none"> <li>• Carcinogenic (Article 57a)</li> <li>• Equivalent level of concern having probable serious to human health</li> </ul>

				<ul style="list-style-type: none"> <li>(Article 57(f)-human health)</li> <li>Equivalent level of concern having probable serious effects to the environment (Article 57(f) – environment)</li> </ul>
213	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)	-	-	Carcinogenic (Article 57a)
	2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)	36483-57-5	253-057-0	
	3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	1522-92-5	-	
	2,2-bis(bromomethyl)propane-1,3-diol (BMP)	3296-90-0	221-967-7	
	2,3-dibromo-1-propanol (2,3-DBPA)	96-13-9	202-480-9	
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	Toxic for reproduction (Article 57c)
	(2R)-3-(4-tert-butylphenyl)-2-methylpropanal	75166-31-3	-	
	2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	201-289-8	
	(2S)-3-(4-tert-butylphenyl)-2-methylpropanal	75166-30-2	-	
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	201-025-1	<ul style="list-style-type: none"> <li>Endocrine disrupting properties (Article 57(f) – environment)</li> <li>Endocrine disrupting properties (Article 57(f) – human health)</li> </ul>
216	Glutaral	111-30-8	203-856-5	Respiratory sensitizing properties (Article 57(f) – human health)
217	Medium-chain chlorinated paraffins (MCCP)	-	-	<ul style="list-style-type: none"> <li>PBT (Article 57d)</li> <li>vPvB (Article 57e)</li> </ul>
	Alkanes, C14-16 chloro	1372804-76-6	-	
	Alkanes, C14-17 chloro	85535-85-9	287-477-0	
	di-, tri- and tetrachlorotetradecane	-	950-299-5	
	Tetradecane, chloro derivs.	198840-65-2	-	
218	Orthoboric acid, sodium salt	-	-	Toxic for reproduction (Article 57c)
	Boric acid (H3BO3), sodium salt, hydrate	25747-83-5	-	
	Boric acid (H3BO3), disodium salt	22454-04-2	-	
	Trisodium orthoborate	14312-40-4	238-253-6	
	Boric acid, sodium salt	1333-73-9	215-604-1	
	Orthoboric acid, sodium salt	13840-56-7	237-560-2	
219	Boric acid, (H3BO3), sodium salt (1:1)	14890-53-0	-	<ul style="list-style-type: none"> <li>Toxic for reproduction (Article 57c)</li> <li>Endocrine disrupting properties (Article 57(f) – environment)</li> <li>Endocrine disrupting properties (Article 57(f) – human health)</li> </ul>
	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerization, covering any individual isomers and/ or combinations thereof (PDDP)	-	-	
	Phenol, dodecyl-, branched	121158-58-5	310-154-3	
	Phenol, (tetrapropenyl) derivatives	74499-35-7	-	
	Phenol, 4-dodecyl, branched	210555-94-5	-	
	4-isododecylphenol	27459-10-5	-	
	Phenol, tetrapropylene-	57427-55-1	-	
Phenol, 4-isododecyl-	27147-75-7	-		
220	(±)-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)	-	-	Endocrine disrupting properties (Article 57(f) -human health)
	(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1782069-81-1	-	
	(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	95342-41-9	-	
	(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-25-4	-	
	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	36861-47-9	253-242-6	
	(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	741687-98-9	-	
	(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-30-1	-	
	(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-21-0	-	
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1	Toxic for reproduction (Article 57c)
222	S-(tricyclo(5.2.1.0 <sup>2,6</sup> )deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl)phosphorodithioate	255881-94-8	401-850-9	PBT (Article 57d)
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	Toxic for reproduction (Article 57c)
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	<ul style="list-style-type: none"> <li>Carcinogenic (Article 57a)</li> <li>Mutagenic (Article 57b)</li> </ul>



225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	253-692-3	vPvB (Article 57e)
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9	Carcinogenic (Article 57a)
227	4,4'-sulphonyldiphenol	80-09-1	201-250-5	<ul style="list-style-type: none"> <li>• Toxic for reproduction (Article 57e)</li> <li>• Endocrine disrupting properties (Article 57(f)- environment)</li> <li>• Endocrine disrupting properties (Article 57(f) - human health)</li> </ul>
228	Barium diboron tetraoxide	13701-59-2	237-222-4	Toxic for reproduction (Article 57c)
229	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-	vPvB (Article 57e)
	Bis(2-ethylhexyl) tetrabromophthalate	26040-51-7	247-426-5	
230	Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8	Endocrine disrupting properties (Article 57(f) -human health)
231	Melamine	108-78-1	203-615-4	<ul style="list-style-type: none"> <li>• Equivalent level of concern having probable serious effects to human health (Article 57(f) -human health)</li> <li>• Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)</li> </ul>
232	Perfluoroheptanoic acid and its salts	-	-	<ul style="list-style-type: none"> <li>• Toxic for reproduction (Article 57c)</li> <li>• PBT (Article 57d)</li> <li>• vPvB (Article 57e)</li> <li>• Equivalent level of concern having probable serious effects to human health (Article 57(f) -human health)</li> <li>• Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)</li> </ul>
	Ammonium perfluoroheptanoate	6130-43-4	228-098-2	
	potassium perfluoroheptanoate	21049-36-5	-	
	Perfluoroheptanoic acid	375-85-9	206-798-9	
	Sodium perfluoroheptanoate	20109-59-5	243-518-4	
233	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	-	473-390-7	vPvB (Article 57e)

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