

## The Product Declaration of REACH SVHC

Date: 19<sup>th</sup> September 2022

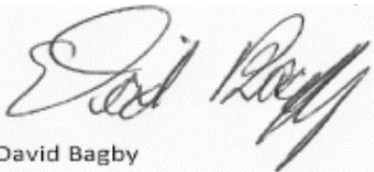
Dear Customers:

Alliance Memory bases our best material content knowledge on information provided by third parties and our suppliers. As of the above date, we herein confirm that Alliance Memory products do not contain any Substance of Very High Concern (SVHC) in concentrations above 0.1% (w/w) as listed by the European Chemicals Agency (ECHA) under the provisions of Regulation (EC) No. 1907/2006 of the European Parliament and of the council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) per the latest ECHA's SVHC candidate list published on 10<sup>th</sup> JUNE 2022 and previous updates. Except for Micron supplied parts as noted below.

The latest SVHC candidate list is shown in the following pages. Please be assured that Alliance Memory will continue to monitor the REACH regulations for any newly listed substances of SVHC that may be included in subsequent ECHA candidate lists.

Alliance Memory will compare all new substances of SVHC with the materials used in our current products and informs this information to our customers. If you have any issues or would like any additional information, please contact us at [quality@alliancememory.com](mailto:quality@alliancememory.com).

Best Regards



David Bagby  
President  
Alliance Memory Inc.

## Candidate List of Substances of Very High Concern (SVHC)

SUBSTANCE IDENTIFICATION				
Substance Name	CAS Number	EC Number	Classification	
1	Anthracene	120-12-7	204-371-1	PBT
2	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	Cat. 1 & 2CMR
3	Dibutyl phthalate(DBP)	84-74-2	201-557-4	Cat. 1 & 2CMR
4	Cobalt dichloride	7646-79-9	231-589-4	Cat. 1 & 2CMR
5	Diarsenic pentaoxide	1303-28-2	215-116-9	Cat. 1 & 2CMR
6	Diarsenic trioxide	1327-53-3	215-481-4	Cat. 1 & 2CMR
7	Sodium dichromate	7789-12-0/ 10588-01-9	234-190-3	Cat. 1 & 2CMR
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	vPvB
9	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	247-148-4 / 221-695-9	PBT
10	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	PBT
11	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	PBT
12	Lead hydrogen arsenate	7784-40-9	232-064-2	Cat. 1 & 2CMR
13	Triethyl arsenate	15606-95-8	427-700-2	Cat. 1 & 2CMR
14	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	Cat. 1 & 2CMR
15	Anthracene oil	90640-80-5	292-602-7	PBT
16	Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	PBT

17	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	PBT
18	Anthracene oil, anthracene-low	90640-82-7	292-604-8	PBT
19	Anthracene oil, anthracene paste	90640-81-6	292-603-2	PBT
20	Pitch, coal tar, high temp.	65996-93-2	266-028-2	PBT & Cat. 2 CMR
21	2,4-Dinitrotoluene	121-14-2	204-450-0	Cat. 2 CMR
22	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	Cat. 2 CMR
23	Acrylamide	79-06-1	201-173-7	Cat. 2 CMR
24	Lead chromate	7758-97-6	231-846-0	Cat. 1 & 2 CMR
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	235-759-9	Cat. 1 & 2 CMR
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	Cat. 1 & 2 CMR
27	tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	Cat. 2 CMR
28	Trichloroethylene	79-01-6	201-167-4	Cat. 2 CMR
29	Boric acid	10043-35-3 /11113-50-1	233-139-2/234-343-4	Cat. 2 CMR
30	Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4	Cat. 2 CMR
31	Tetraboron disodium heptaoxide hydrate	12267-73-1	235-541-3	Cat. 2 CMR
32	Sodium chromate	7775-11-3	231-889-5	Cat. 2 CMR
33	Potassium chromate	7789-00-6	232-140-5	Cat. 2 CMR
34	Ammonium dichromate	7789-09-5	232-143-1	Cat. 2 CMR
35	Potassium dichromate	7778-50-9	231-906-6	Cat. 2 CMR
36	2-Ethoxyethanol (ethylene glycol monoethyl ether)	110-80-5	203-804-1	Cat. 2 CMR

37	2-Methoxyethanol (ethylene glycol monomethyl ether)	109-86-4	203-713-7	Cat. 2 CMR
38	Acids generated from chromium trioxide and their oligomers (Chromic acid)	7738-94-5	231-801-5	Cat. 2 CMR
	Acids generated from chromium trioxide and their oligomers (Dichromic acid)	13530-68-2	236-881-5	Cat. 2 CMR
	Oligomers of chromic acid and dichromic acid	-	-	Cat. 2 CMR
39	Chromium trioxide (Chromium (VI) trioxide)	1333-82-0	215-607-8	Cat. 1 & 2 CMR
40	Cobalt(II) carbonate	513-79-1	208-169-4	Cat. 2 CMR
41	Cobalt(II) diacetate	71-48-7	200-755-8	Cat. 2 CMR
42	Cobalt(II) dinitrate	10141-05-6	233-402-1	Cat. 2 CMR
43	Cobalt(II) sulphate (Cobalt sulphate)	10124-43-3	233-334-2	Cat. 2 CMR
44	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1	CMR
45	1,2,3-trichloropropane	96-18-4	202-486-1	CMR
46	1-methyl-2-pyrrolidone (NMP)	872-50-4	212-828-1	CMR
47	Hydrazine	7803-57-8 302-01-2	206-114-9	CMR
48	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	271-084-6	CMR
49	Strontium chromate	7789-06-2	232-142-6	CMR
50	2-ethoxyethyl acetate	111-15-9	203-839-2	CMR

51	<p>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 (<math>\mu\text{m}</math>). c) alkaline oxide and alkali earth oxide (<math>\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}</math>) content less or equal to 18% by weight</p>	-	-	CMR
52	<p>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 (<math>\mu\text{m}</math>) c) alkaline oxide and alkali earth oxide (<math>\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}</math>) content less or equal to 18% by weight</p>	-	650-017-00-8**	CMR

53	Calcium arsenate	7778-44-1	231-904-5	CMR
54	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	CMR
55	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8	CMR
56	Lead dipicrate	6477-64-1	229-335-2	CMR
57	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	CMR
58	Arsenic acid	7778-39-4	231-901-9	CMR
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	CMR
60	Trilead diarsenate	3687-31-8	222-979-5	CMR
61	1,2-dichloroethane; ethylene dichloride	107-06-2	203-458-1	CMR
62	Pentazinc chromate octahydroxide	49663-84-5	256-418-0	CMR
63	4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol)	140-66-9	205-426-2	CMR
64	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	CMR
65	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	CMR
66	Lead diazide,Lead azide	13424-46-9	236-542-1	CMR
67	Lead styphnate (lead 2,4,6-trinitro-m-phenylene dioxide)	15245-44-0	239-290-0	CMR
68	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	CMR
69	Phenolphthalein	77-09-8	201-004-7	CMR
70	Dichromium tris(chromate)	24613-89-6	246-356-2	CMR
71	$\alpha,\alpha$ -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	Carcinogenic

72	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	Carcinogenic
73	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	Mutagenic
74	Diboron trioxide	1303-86-2	215-125-8	Toxic for reproduction
75	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	Toxic for reproduction
76	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	Carcinogenic
77	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	Toxic for reproduction
78	Formamide	75-12-7	200-842-0	Toxic for reproduction
79	[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	Toxic for reproduction
80	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	Carcinogenic
81	[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	Carcinogenic
82	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	Mutagenic
83	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	Carcinogenic

84	Lead cyanamidate	20837-86-9	244-073-9	Toxic for reproduction
85	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	Toxic for reproduction
86	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
87	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	Toxic for reproduction
88	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	Toxic for reproduction
89	Biphenyl-4-ylamine	92-67-1	202-177-1	Carcinogenic
90	Orange lead (lead tetroxide)	1314-41-6	215-235-6	Toxic for reproduction
91	4,4'-oxydianiline and its salts	101-80-4	202-977-0	Carcinogenic ; Mutagenic
92	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	Toxic for reproduction
93	o-aminoazotoluene	97-56-3	202-591-2	Carcinogenic
94	Trilead dioxide phosphonate	12141-20-7	235-252-2	Toxic for reproduction
95	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	Carcinogenic; Mutagenic
96	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	Carcinogenic
97	Methoxyacetic acid	625-45-6	210-894-6	Toxic for reproduction
98	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	Toxic for reproduction
99	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	vPvB
100	Tricosafuorododecanoic acid	307-55-1	206-203-2	vPvB
101	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	vPvB
102	Pentalead tetraoxide sulphate	12065-90-6	235-067-7	Toxic for reproduction
103	Tetraethyllead	78-00-2	201-075-4	Toxic for reproduction
104	Dioxobis(stearato)trilead	12578-12-0	235-702-8	Toxic for reproduction
105	N-pentyl-isopentylphthalate	776297-69-9	-	Toxic for reproduction
106	Tetralead trioxide sulphate	12202-17-4	235-380-9	Toxic for reproduction



107	1,2-Diethoxyethane	629-14-1	211-076-1	Toxic for reproduction
108	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	Toxic for reproduction
109	N-methylacetamide	79-16-3	201-182-6	Toxic for reproduction
110	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	PBT (Article 57 d); vPvB
111	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	Toxic for reproduction
112	Acetic acid, lead salt, basic	51404-69-4	257-175-3	Toxic for reproduction
113	Lead titanium trioxide	12060-00-3	235-038-9	Toxic for reproduction
114	Lead oxide sulfate	12036-76-9	234-853-7	Toxic for reproduction
115	Dimethyl sulphate	77-78-1	201-058-1	Carcinogenic
116	Diethyl sulphate	64-67-5	200-589-6	Carcinogenic; Mutagenic
117	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	Carcinogenic
118	4-Nonylphenol, branched and linear <i>[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]</i>	-	-	Equivalent level of concern having probable serious effects to the environment
119	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	-	Equivalent level of concern having probable serious effects to the environment
120	N,N-dimethylformamide	68-12-2	200-679-5	Toxic for reproduction
121	Furan	110-00-9	203-727-3	Carcinogenic
122	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	Toxic for reproduction
123	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped <i>[with lead (Pb) content above the applicable generic concentration limit]</i>	68784-75-8	272-271-5	Toxic for reproduction

	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]			
124	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	Toxic for reproduction
125	o-Toluidine	95-53-4	202-429-0	Carcinogenic
126	Lead monoxide (lead oxide)	1317-36-8	215-267-0	Toxic for reproduction
127	Lead titanium zirconium oxide	12626-81-2	235-727-4	Toxic for reproduction
128	4-Aminoazobenzene	60-09-3	200-453-6	Carcinogenic
129	Silicic acid, lead salt	11120-22-2	234-363-3	Toxic for reproduction
130	Lead dinitrate	10099-74-8	233-245-9	Toxic for reproduction
131	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	Toxic for reproduction
132	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	Toxic for reproduction
133	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[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]</i>	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
134	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[The individual isomers [2], [3] and [4] (including their cis- and</i>	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

	<i>trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]</i>			
135	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	vPvB
136	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	Carcinogenic
137	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	Toxic for reproduction
138	Cadmium	7440-43-9	231-152-8	Carcinogenic
139	Cadmium Oxide	1306-19-0	215-146-2	Carcinogenic
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	Toxic for reproduction
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	Toxic for reproduction
142	Dipentyl phthalate (DPP)	131-18-0	205-017-9	Toxic for reproduction
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
144	Lead di(acetate)	301-04-2	206-104-4	Toxic for reproduction
145	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	Carcinogenic
146	Trixylyl phosphate (TXP)	25155-23-1	246-677-8	Toxic for reproduction
147	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	202-506-9	Toxic for reproduction
148	Dihexyl phthalate	84-75-3	201-559-5	Toxic for reproduction

149	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
150	Cadmium sulphide	1306-23-6	215-147-8	Carcinogenic (Article 57a);Equivalent level of concern having probable serious effects to human health
151	Cadmium chloride	10108-64-2	233-296-7	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
152	Sodium peroxometaborate	7632-04-4	231-556-4	Toxic for reproduction
153	Sodium perborate; perboric acid, sodium salt	-	239-172-9; 234-390-0	Toxic for reproduction
154	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	Toxic for reproduction
155	Cadmium fluoride	7790-79-6	232-222-0	Carcinogenic (Article 57 a);Toxic for reproduction (Article 57 c);Equivalent level of concern having probable serious effects to human health (Article 57 f)
156	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)
157	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)
158	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	PBT (Article 57 d);vPvB (Article 57 e)

159	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	Toxic for reproduction (Article 57 c)
160	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)	-	-	Toxic for reproduction (Article 57 c)
161	Bis(2-ethylhexyl) 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)
162	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	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	214-317-9	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 (Benzo[a]pyrene)	50-32-8	200-028-5	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e)
170	4,4'-isopropylidenediphenol	1980/5/7	201-245-8	Toxic for production
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]	-	-	Endocrine-disrupting properties for the environment
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	206-400-3 221-470-5	Toxic for reproduction and persistent, bioaccumulative and toxic (PBT) properties
173	p-(1,1-Dimethylpropyl)phenol	80-46-6	201-280-9	Endocrine-disrupting properties for the environment
174	Perfluorohexane-1-sulphonic acid and its salts ( PFHxS )	-	-	bioaccumulative (vPvB) properties
175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]			Endocrine disrupting properties (Article 57(f) - environment)

176	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"™) [covering any of its individual anti- and syn-isomers or any combination thereof]			vPvB (article 57e)
177	Chrysene	218-01-9, 1719-03-5	205-923-4	Carcinogenic(Article 57a) PBT (Article 57d) vPvB (Article 57e)
178	Cadmium nitrate	10325-94-7 10022-68-1	233-710-6	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (article 57(f)-human health)
179	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)
180	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)
181	Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6	Carcinogenic(Article 57a) PBT (Article 57d) vPvB (Article 57e)

182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	PBT (Article 57d) vPvB (Article 57e)
183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	PBT (Article 57d)

				vPvB (Article 57e)
184	Dodecamethylcyclhexasiloxane (D6)	540-97-6	208-762-8	PBT (Article 57d) vPvB (Article 57e)
185	Lead	7439-92-1	231-100-4	Toxic for reproduction (Article 57c)
186	Disodium octaborate	12008-41-2	234-541-0	Toxic for reproduction (Article 57c)
187	Benzo[ghi]perylene	191-24-2	205-883-8	PBT (Article 57d) vPvB (Article 57e)
188	Terphenyl hydrogenated	61788-32-7	262-967-7	vPvB (Article 57e)
189	Ethylenediamine (EDA)	107-15-3	203-468-6	Respiratory sensitising properties (Article 57(f) - human health)
190	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)
191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	Toxic for reproduction (Article 57c)  Endocrine disrupting properties (Article 57(f) - human health)
192	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	401-720-1	Toxic for reproduction (Article 57c)
193	Benzo[k]fluoranthene	207-08-9	205-916-6	Carcinogenic (Article 57a)  PBT (Article 57d)  vPvB (Article 57e)
194	Fluoranthene	206-44-0	205-912-4	PBT (Article 57d)  vPvB (Article 57e)



195	Phenanthrene	85-01-8	201-581-5	vPvB (Article 57e)
196	Pyrene	129-00-0 1718-52-1	204-927-3	PBT (Article 57d) vPvB (Article 57e)
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9	Endocrine disrupting properties (Article 57(f) - environment)
198	2-methoxyethyl acetate	110-49-6	203-772-9	Toxic for reproduction (Article 57 (c))
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)			Endocrine disrupting properties (Article 57(f) – environment)
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)			Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment). Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)
201	4-tert-butylphenol	98-54-4	202-679-0	Endocrine disrupting properties (Article 57(f) – environment)
202	Diisohexyl phthalate	71850-09-4	276-090-2	Toxic for reproduction (Article 57 (c))
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	Toxic for reproduction (Article 57 (c))
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	Toxic for reproduction (Article 57 (c))
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	Equivalent level of concern having probable serious effects to the environment (Article 57(f) -

				environment)  Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)
206	1-vinylimidazole	1072-63-5	14-012-0	Toxic for reproduction (Article 57c)
207	2-methylimidazole	693-98-1	211-765-7	Toxic for reproduction (Article 57c)
208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	Endocrine disrupting properties (Article 57(f) - human health)
209	Dibutylbis(pentane-2,4-dionato-O,O') tin	22673-19-4	245-152-0	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)
	dioctyl tin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs	-	-	
	Stannane, dioctyl-, bis(coco acyloxy) derivs.	91648-39-4	293-901-5	
	Diocetyl tin dilaurate	3648-18-8	222-883-3	
212	4,4'-(1-methylpropylidene)bisphenol	77-40-7	201-025-1	Endocrine disrupting properties (Article 57f - human health and environment)
213	1,4-dioxane	123-91-1	204-661-8	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to the

				environment (Article 57f - environment) Equivalent level of concern having probable serious effects to human health (Article 57f -human health)
214	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	-	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57f - human health and environment)
215	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)	-	-	PBT (Article 57d) vPvB (Article 57e)
216	Glutaral	111-30-8	203-856-5	Respiratory sensitising properties (Article 57f - human health)
217	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,	221-967-7, 253-057-0, 202-480-9	Carcinogenic (Article 57 a)
218	Orthoboric acid, sodium salt	13840-56-7	237-560-2	Toxic for reproduction (Article 57 c)
219	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-	-	Toxic for reproduction (Article 57 c)
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)
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	204-327-1	Toxic for reproduction (Article 57 c)
222	S-(tricyclo[5.2.1.0' <sup>2</sup> ,6]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 57 d)
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	Toxic for reproduction (Article 57 c)
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	Carcinogenic; Mutagenic