

**2023: Version 1**

Dear Customer,

Subject: SVHC declaration

ECHA has so far identified certain chemical substances as the Substances of Very High Concern (SVHC).

Appendix 1 on the following pages also gives the current list of SVHC substances which are in the Candidate List of REACH Regulation (EC/1907/2006) (Updated 17th January, 2023).

We confirm that these substances are not present in more than 0.1% weight / weight in Polypropylene Repol B650MN.

As the list is subjected to be updated from time to time, we will also update you on the SVHC status of any such chemical, if included at later stage.

The declarations given above are applicable to the material as it leaves the RIL production facilities and does not include any substance subsequently added by the converter or any other agency. As the conditions of usage at the customer's place are beyond the control of RIL, Customers are advised to make their own decision regarding their use of our grade is safe, lawful and suitable for the intended applications.

Encl: Appendix 1

<b>Appendix – 1 : Candidate List of Substances of Very High Concern (SVHC) for Authorisation</b>					
Sr. No.	Name	EC no.	CAS no.	Date of inclusion	Reason for inclusion
1	Benzo[def]chrysene (Benzo[a]pyrene), Benzo[def]chrysene(Benzo[a]pyrene)	200-0285	50-32-8	20-06-2016	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
					Toxic for reproduction (Article 57c)
					PBT (Article 57 d)
					vPvB (Article 57 e)
2	1,3-propanesultone	214-3179	1120-714	17-12-2015	Carcinogenic (Article 57a)
3	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-3838	3864-991	17-12-2015	vPvB (Article 57 e)
4	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-0371	3643737-3	17-12-2015	vPvB (Article 57 e)
5	Nitrobenzene	202-7160	98-95-3	17-12-2015	Toxic for reproduction (Article 57c)
6	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	-	17-12-2015	Toxic for reproduction (Article 57c)

	Perfluorononan-1-oic-acid EC no.: 206-8013   CAS no.: 375-95-1				PBT (Article 57 d)
	Sodium salts of perfluorononan-1-oicacid EC no.: -   CAS no.: -, 21049-39-8				
	Ammonium salts of perfluorononan-1-oicacid EC no.: -   CAS no.: -, 4149-60-4				
7	1,2-benzenedicarboxylic acid, di-C6-10alkyl esters or mixed decyl and hexyl and octyl diesters	-	-	15-06-2015	Toxic for reproduction (Article 57c)
	with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)				
	1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters EC no.: 272013-1   CAS no.: 68648-93-1				
	1,2-Benzenedicarboxylic acid, di-C6-10alkyl esters EC no.: 271-094-0   CAS no.: 68515-51-5				
8	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]	-	-	15-06-2015	vPvB (Article 57 e)
	covering any of the individual stereoisomers of [1] and [2] or any combination thereof				
	5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane EC no.: -   CAS no.: -				
	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane EC no.: -   CAS no.: -				
9	2-(2H-benzotriazol-2-yl)-4,6ditertpentylphenol (UV-328)	247-3848	2597355-1	17-12-2014	PBT (Article 57 d)
					vPvB (Article 57 e)
10	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-3466	3846-717	17-12-2014	PBT (Article 57 d)
					vPvB (Article 57 e)
11	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-6224	1557158-1	17-12-2014	Toxic for reproduction (Article 57c)
12	Cadmium fluoride	232-2220	7790-796	17-12-2014	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)
13	Cadmium sulphate	233-3316	10124-36-4, 31119-53-6	17-12-2014	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)
14	Reaction mass of 2-ethylhexyl 10-ethyl-4,4dioctyl-7-oxo-8-oxa-3,5-dithia-4stannatetradecanoate and 2-ethylhexyl 10ethyl-4-[[2-[(2-ethylhexyl)oxy]-2oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	17-12-2014	Toxic for reproduction (Article 57c)
15	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-0935	6851550-4	16-06-2014	Toxic for reproduction (Article 57c)
16	Cadmium chloride	233-2967	1010864-2	16-06-2014	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)
17	Sodium perborate, perboric acid, sodium salt	-	-	16-06-2014	Toxic for reproduction

	Sodium perborate EC no.: 239-172-9   CAS no.: 15120-21-5				(Article 57c)
	Perboric acid, sodium salt EC no.: 234-3900   CAS no.: 11138-47-9				
18	Sodium peroxometaborate	231-5564	04-047632	16-06-2014	Toxic for reproduction (Article 57c)
19	Cadmium sulphide	215-1478	1306-236	16-12-2013	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (Article 57 f)
20	Dihexyl phthalate	201-5595	84-75-3	16-12-2013	Toxic for reproduction (Article 57c)
21	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-3584	573-58-0	16-12-2013	Carcinogenic (Article 57a)
22	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	217-7103	1937-377	16-12-2013	Carcinogenic (Article 57a)
23	Imidazolidine-2-thione (2-imidazoline-2thiol)	202-5069	96-45-7	16-12-2013	Toxic for reproduction (Article 57c)
24	Lead di(acetate)	206-1044	301-04-2	16-12-2013	Toxic for reproduction (Article 57c)
25	Trixylyl phosphate	246-6778	2515523-1	16-12-2013	Toxic for reproduction (Article 57c)
26	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 welldefined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof	-	-	20-06-2013	Equivalent level of concern having probable serious effects to environment (Article 57 f)
27	Ammonium pentadecafluorooctanoate (APFO)	223-3204	3825-261	20-06-2013	PBT (Article 57 d) Toxic for reproduction (Article 57c)

28	Cadmium	231-1528	7440-439	20-06-2013	Carcinogenic (Article 57a)
					Equivalent level of concern having probable serious effects to human health (Article 57 f)
29	Cadmium oxide	215-1462	1306-190	20-06-2013	Carcinogenic (Article 57a)
					Equivalent level of concern having probable serious effects to human health (Article 57 f)
30	Dipentyl phthalate (DPP)	205-0179	131-18-0	20-06-2013	Toxic for reproduction (Article 57c)
31	Pentadecafluorooctanoic acid (PFOA)	206-3979	335-67-1	20-06-2013	PBT (Article 57 d)
					Toxic for reproduction (Article 57c)
32	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-0322	8477706-0	19-12-2012	Toxic for reproduction (Article 57c)
33	1,2-diethoxyethane	211-0761	629-14-1	19-12-2012	Toxic for reproduction (Article 57c)
34	1-bromopropane (n-propyl bromide)	203-4450	106-94-5	19-12-2012	Toxic for reproduction (Article 57c)
35	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-1507	14386004-2	19-12-2012	Toxic for reproduction (Article 57c)
36	4,4'-methylenedi-o-toluidine	212-6588	838-88-0	19-12-2012	Carcinogenic (Article 57a)
37	4,4'-oxydianiline and its salts	-	-	19-12-2012	Carcinogenic (Article 57a)
	4,4'-oxydianiline EC no.: 202-977-0   CAS no.: 101-80-4				Mutagenic (Article 57b)

38	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	-	-	19-12-2012	Equivalent level of concern having probable serious effects to environment (Article 57 f)
39	4-aminoazobenzene	200-4536	60-09-3	19-12-2012	Carcinogenic (Article 57a)
40	4-methyl-m-phenylenediamine (toluene-2,4diamine)	202-4531	95-80-7	19-12-2012	Carcinogenic (Article 57a)
41	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	-	-	19-12-2012	Equivalent level of concern having probable serious effects to environment (Article 57 f)
42	6-methoxy-m-toluidine (p-cresidine)	204-4191	120-71-8	19-12-2012	Carcinogenic (Article 57a)
43	[Phthalato(2-)]dioxotrilead	273-6885	6901106-9	19-12-2012	Toxic for reproduction (Article 57c)
44	Acetic acid, lead salt, basic	257-1753	5140469-4	19-12-2012	Toxic for reproduction (Article 57c)
45	Biphenyl-4-ylamine	202-1771	92-67-1	19-12-2012	Carcinogenic (Article 57a)
46	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-6049	1163-195	19-12-2012	PBT (Article 57 d) vPvB (Article 57 e)
47	Cyclohexane-1,2-dicarboxylic anhydride all possible combinations of the cis- and trans-isomers	-	-	19-12-2012	Equivalent level of concern having

	Cyclohexane-1,2-dicarboxylic anhydride EC no.: 201-604-9   CAS no.: 85-42-7				probable serious effects to human health (Article 57 f)
	cis-cyclohexane-1,2-dicarboxylic anhydride EC no.: 236-086-3   CAS no.: 13149-00-3				
	trans-cyclohexane-1,2-dicarboxylic anhydride EC no.: 238-009-9   CAS no.: 14166-21-3				
48	Diazeno-1,2-dicarboxamide (C,C'azodi(formamide)) (ADCA)	204-6508	123-77-3	19-12-2012	Equivalent level of concern having probable serious effects to human health (Article 57 f)
49	Dibutyltin dichloride (DBTC)	211-6700	683-18-1	19-12-2012	Toxic for reproduction (Article 57c)
50	Diethyl sulphate	200-5896	64-67-5	19-12-2012	Carcinogenic (Article 57a) Mutagenic (Article 57b)
51	Diisopentyl phthalate	210-0884	605-50-5	19-12-2012	Toxic for reproduction (Article 57c)
52	Dimethyl sulphate	201-0581	77-78-1	19-12-2012	Carcinogenic (Article 57a)
53	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-8617	88-85-7	19-12-2012	Toxic for reproduction (Article 57c)
54	Dioxobis(tearate)trilead	235-7028	1257812-0	19-12-2012	Toxic for reproduction (Article 57c)
55	Fatty acids, C16-18, lead salts	292-9667	9103162-8	19-12-2012	Toxic for reproduction (Article 57c)
56	Furan	203-7273	110-00-9	19-12-2012	Carcinogenic (Article 57a)
57	Henicosafuoroundecanoic acid	218-1654	2058-948	19-12-2012	vPvB (Article 57 e)
58	Heptacosafuorotetradecanoic acid	206-8034	376-06-7	19-12-2012	vPvB (Article 57 e)
59	Hexahydromethylphthalic anhydride	-	-	19-12-2012	Equivalent level of concern having probable serious effects to human health (Article 57 f)
	including cis- and trans- stereo isomeric forms and all possible combinations of the isomers				
	Hexahydro-1-methylphthalic anhydride EC no.: 256-356-4   CAS no.: 48122-14-1				
	Hexahydromethylphthalic anhydride EC no.: 247-094-1   CAS no.: 25550-51-0				

	Hexahydro-4-methylphthalic anhydride EC no.: 243-072-0   CAS no.: 19438-60-9				
	Hexahydro-3-methylphthalic anhydride EC no.: 260-566-1   CAS no.: 57110-29-9				
60	Lead bis(tetrafluoroborate)	237-4860	1381496-5	19-12-2012	Toxic for reproduction (Article 57c)
61	Lead cyanamidate	244-0739	2083786-9	19-12-2012	Toxic for reproduction (Article 57c)
62	Lead dinitrate	233-2459	1009974-8	19-12-2012	Toxic for reproduction (Article 57c)
63	Lead monoxide (lead oxide)	215-2670	1317-368	19-12-2012	Toxic for reproduction (Article 57c)
64	Lead oxide sulfate	234-8537	1203676-9	19-12-2012	Toxic for reproduction (Article 57c)
65	Lead titanium trioxide	235-0389	1206000-3	19-12-2012	Toxic for reproduction (Article 57c)
66	Lead titanium zirconium oxide	235-7274	1262681-2	19-12-2012	Toxic for reproduction (Article 57c)
67	Methoxyacetic acid	210-8946	625-45-6	19-12-2012	Toxic for reproduction (Article 57c)
68	Methyloxirane (Propylene oxide)	200-8792	75-56-9	19-12-2012	Carcinogenic (Article 57a) Mutagenic (Article 57b)
69	N,N-dimethylformamide	200-6795	68-12-2	19-12-2012	Toxic for reproduction (Article 57c)
70	N-methylacetamide	201-1826	79-16-3	19-12-2012	Toxic for reproduction (Article 57c)
71	N-pentyl-isopentylphthalate	-	77629769-9	19-12-2012	Toxic for reproduction (Article 57c)
72	o-aminoazotoluene	202-5912	97-56-3	19-12-2012	Carcinogenic (Article 57a)
73	o-toluidine	202-4290	95-53-4	19-12-2012	Carcinogenic (Article 57a)
74	Orange lead (lead tetroxide)	215-2356	1314-416	19-12-2012	Toxic for reproduction (Article 57c)
75	Pentacosafuorotridecanoic acid	276-7452	7262994-8	19-12-2012	vPvB (Article 57 e)
76	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	19-12-2012	Toxic for reproduction (Article 57c)



77	Pyrochlore, antimony lead yellow,	232-3821	8012-008	19-12-2012	Toxic for reproduction (Article 57c)
78	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	272-2715	6878475-8	19-12-2012	Toxic for reproduction (Article 57c)
79	Silicic acid, lead salt	234-3633	1112022-2	19-12-2012	Toxic for reproduction (Article 57c)
80	Sulfurous acid, lead salt, dibasic	263-4671	6222908-7	19-12-2012	Toxic for reproduction (Article 57c)
81	Tetraethyllead	201-0754	78-00-2	19-12-2012	Toxic for reproduction (Article 57c)
82	Tetralead trioxide sulphate	235-3809	1220217-4	19-12-2012	Toxic for reproduction (Article 57c)
83	Tricosafuorododecanoic acid	206-2032	307-55-1	19-12-2012	vPvB (Article 57 e)
84	Trilead bis(carbonate) dihydroxide	215-2906	1319-466	19-12-2012	Toxic for reproduction (Article 57c)
85	Trilead dioxide phosphonate	235-2522	1214120-7	19-12-2012	Toxic for reproduction (Article 57c)
86	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	203-9773	112-49-2	18-06-2012	Toxic for reproduction (Article 57c)
87	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	203-7949	110-71-4	18-06-2012	Toxic for reproduction (Article 57c)
88	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)	219-5143	2451-629	18-06-2012	Mutagenic (Article 57b)
89	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (βTGIC), 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-4000	5965374-6	18-06-2012	Mutagenic (Article 57b)
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90	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-2182	561-41-1	18-06-2012	Carcinogenic (Article 57a)
	with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)				

91	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-0275	90-94-8	18-06-2012	Carcinogenic (Article 57a)
92	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-9536	548-62-9	18-06-2012	Carcinogenic (Article 57a)
	with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)				
93	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	219-9436	2580-565	18-06-2012	Carcinogenic (Article 57a)
	with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)				
94	Diboron trioxide	215-1258	1303-862	18-06-2012	Toxic for reproduction (Article 57c)
95	Formamide	200-8420	75-12-7	18-06-2012	Toxic for reproduction (Article 57c)
96	Lead(II) bis(methanesulfonate), Lead(II)bis(methanesulfonate)	401-7505	1757076-2	18-06-2012	Toxic for reproduction (Article 57c)
	-				
97	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-9592	101-61-1	18-06-2012	Carcinogenic (Article 57a)
98	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-8518	6786-830	18-06-2012	Carcinogenic (Article 57a)
	with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)				
99	1,2-dichloroethane	203-4581	107-06-2	19-12-2011	Carcinogenic (Article 57a)
100	2,2'-dichloro-4,4'-methylenedianiline	202-9189	101-14-4	19-12-2011	Carcinogenic (Article 57a)
101	2-Methoxyaniline, o-Anisidine	201-9631	90-04-0	19-12-2011	Carcinogenic (Article 57a)
102	4-(1,1,3,3-tetramethylbutyl)phenol	205-4262	140-66-9	19-12-2011	Equivalent level of concern having probable serious effects to environment (Article 57 f)

103	Aluminosilicate Refractory Ceramic Fibres	-	-	19-12-2011	Carcinogenic (Article 57a)
104	Arsenic acid	231-9019	7778-394	19-12-2011	Carcinogenic (Article 57a)
105	Bis(2-methoxyethyl) ether	203-9244	111-96-6	19-12-2011	Toxic for reproduction (Article 57c)
106	Bis(2-methoxyethyl) phthalate	204-2126	117-82-8	19-12-2011	Toxic for reproduction (Article 57c)
107	Calcium arsenate	231-9045	7778-441	19-12-2011	Carcinogenic (Article 57a)
108	Dichromium tris(chromate)	246-3562	2461389-6	19-12-2011	Carcinogenic (Article 57a)
109	Formaldehyde, oligomeric reaction products with aniline	500-0361	2521470-4	19-12-2011	Carcinogenic (Article 57a)
110	Lead diazide, Lead azide	236-5421	1342446-9	19-12-2011	Toxic for reproduction (Article 57c)
111	Lead dipicrate	229-3352	6477-641	19-12-2011	Toxic for reproduction (Article 57c)
112	Lead styphnate	239-2900	1524544-0	19-12-2011	Toxic for reproduction (Article 57c)
113	N,N-dimethylacetamide	204-8264	127-19-5	19-12-2011	Toxic for reproduction (Article 57c)
114	Pentazinc chromate octahydroxide	256-4180	4966384-5	19-12-2011	Carcinogenic (Article 57a)
115	Phenolphthalein	201-0047	77-09-8	19-12-2011	Carcinogenic (Article 57a)
116	Potassium hydroxyoctaoxodizincatedichromate	234-3298	1110386-9	19-12-2011	Carcinogenic (Article 57a)
117	Trilead diarsenate	222-9795	3687-318	19-12-2011	Carcinogenic (Article 57a)
					Toxic for reproduction (Article 57c)
118	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-	19-12-2011	Carcinogenic (Article 57a)
119	1,2,3-trichloropropane	202-4861	96-18-4	20-06-2011	Carcinogenic (Article 57a)
					Toxic for reproduction (Article 57c)
120	1,2-Benzenedicarboxylic acid, di-C6-8branched alkyl esters, C7-rich	276-1581	7188889-6	20-06-2011	Toxic for reproduction (Article 57c)
121	1,2-Benzenedicarboxylic acid, di-C7-11branched and linear alkyl esters	271-0846	6851542-4	20-06-2011	Toxic for reproduction (Article 57c)

122	1-Methyl-2-pyrrolidone (NMP)	212-8281	872-50-4	20-06-2011	Toxic for reproduction (Article 57c)
123	2-ethoxyethyl acetate	203-8392	111-15-9	20-06-2011	Toxic for reproduction (Article 57c)
124	Hydrazine	206-1149	302-01-2, 7803-57-8	20-06-2011	Carcinogenic (Article 57a)
125	Strontium chromate	232-1426	02-067789	20-06-2011	Carcinogenic (Article 57a)
126	2-ethoxyethanol	203-8041	110-80-5	15-12-2010	Toxic for reproduction (Article 57c)
127	2-methoxyethanol	203-7137	109-86-4	15-12-2010	Toxic for reproduction (Article 57c)
128	Acids generated from chromium trioxide and their oligomers	-	-	15-12-2010	Carcinogenic (Article 57a)
	Chromic acid EC no.: 231-801-5   CAS no.: 13530-68-2				
	Dichromic acid EC no.: 236-881-5   CAS no.: 7738-94-5				
	Oligomers of chromic acid and dichromic acid EC no.: -   CAS no.: -				
129	Chromium trioxide	215-6078	1333-820	15-12-2010	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
130	Cobalt(II) carbonate	208-1694	513-79-1	15-12-2010	Carcinogenic (Article 57a)
					Toxic for reproduction (Article 57c)
131	Cobalt(II) diacetate	200-7558	71-48-7	15-12-2010	Carcinogenic (Article 57a)
					Toxic for reproduction (Article 57c)
132	Cobalt(II) dinitrate	233-4021	1014105-6	15-12-2010	Carcinogenic (Article 57a)
					Toxic for reproduction (Article 57c)
133	Cobalt(II) sulphate	233-3342	1012443-3	15-12-2010	Carcinogenic (Article 57a)
					Toxic for reproduction (Article 57c)
134	Ammonium dichromate	232-143-1	05-09-7789	18-06-2010	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)

					Toxic for reproduction (Article 57c)
135	Boric acid	-	-	18-06-2010	Toxic for reproduction (Article 57c)
	EC No. 233-139-2 and EC No. 234-343-4				
	Boric acid, crude natural EC no.: 234-3434   CAS no.: 11113-50-1				
	Boric acid EC no.: 233-139-2   CAS no.: 10043-35-3				
136	Disodium tetraborate, anhydrous	215-5404	12179-04-3, 1303-96-4, 1330-43-4	18-06-2010	Toxic for reproduction (Article 57c)
137	Potassium chromate	232-1405	7789-006	18-06-2010	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
138	Potassium dichromate	231-9066	7778-509	18-06-2010	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
					Toxic for reproduction (Article 57c)
139	Sodium chromate	231-8895	03-117775	18-06-2010	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
					Toxic for reproduction (Article 57c)
140	Tetraboron disodium heptaoxide, hydrate	235-5413	1226773-1	18-06-2010	Toxic for reproduction (Article 57c)
141	Trichloroethylene	201-1674	79-01-6	18-06-2010	Carcinogenic (Article 57a)
142	Acrylamide	201-1737	79-06-1	30-03-2010	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
143	2,4-dinitrotoluene	204-4500	121-14-2	13-01-2010	Carcinogenic (Article 57a)
144	Anthracene oil, Anthraceneoil	292-6027	9064080-5	13-01-2010	Carcinogenic (Article 57a)
					PBT (Article 57 d)
					vPvB (Article 57 e)
145	Anthracene oil, anthracene paste, Anthraceneoil,anthracenepaste	292-6032	9064081-6	13-01-2010	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)

					PBT (Article 57 d)
					vPvB (Article 57 e)
146	Anthracene oil, anthracene paste, anthracene fraction, Anthraceneoil,anthracenepaste,anthracene fraction	295-2759	9199515-2	13-01-2010	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
					PBT (Article 57 d)
					vPvB (Article 57 e)
147	Anthracene oil, anthracene paste, distn. Lights, Anthraceneoil,anthracenepaste,distn.lights	295-2785	9199517-4	13-01-2010	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
					PBT (Article 57 d)
					vPvB (Article 57 e)
148	Anthracene oil, anthracene-low, Anthraceneoil,anthracene-low	292-6048	9064082-7	13-01-2010	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
					PBT (Article 57 d)
					vPvB (Article 57 e)
149	Diisobutyl phthalate	201-5532	84-69-5	13-01-2010	Toxic for reproduction (Article 57c)
150	Lead chromate	231-8460	7758-976	13-01-2010	Carcinogenic (Article 57a)
					Toxic for reproduction (Article 57c)
151	Lead chromate molybdate sulphate red (C.I. Pigment Red 104), Leadchromatemolybdatesulphatered(C.I. PigmentRed104)	235-7599	1265685-8	13-01-2010	Carcinogenic (Article 57a)
					Toxic for reproduction (Article 57c)
152	Lead sulfochromate yellow (C.I. Pigment Yellow 34), Leadsulfochromateyellow(C.I.Pigment Yellow 34)	215-6937	1344-372	13-01-2010	Carcinogenic (Article 57a)
					Toxic for reproduction (Article 57c)
153	Pitch, coal tar, high-temp., Pitch,coaltar,high-temp.	266-0282	6599693-2	13-01-2010	Carcinogenic (Article 57a)
					PBT (Article 57 d)
					vPvB (Article 57 e)

154	Tris(2-chloroethyl) phosphate	204-1185	115-96-8	13-01-2010	Toxic for reproduction (Article 57c)
155	4,4'- Diaminodiphenylmethane (MDA)	202-9744	101-77-9	28-10-2008	Carcinogenic (Article 57a)
156	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-3294	81-15-2	28-10-2008	vPvB (Article 57 e)
157	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	28-10-2008	PBT (Article 57 d) vPvB (Article 57 e)
158	Anthracene	204-3711	120-12-7	28-10-2008	PBT (Article 57 d)
159	Benzyl butyl phthalate (BBP)	201-6227	85-68-7	28-10-2008	Toxic for reproduction (Article 57c)
160	Bis (2-ethylhexyl)phthalate (DEHP)	204-2110	117-81-7	28-10-2008	Equivalent level of concern having probable serious effects to environment (Article 57 f) Toxic for reproduction (Article 57c)
161	Bis(tributyltin) oxide (TBTO)	200-2680	56-35-9	28-10-2008	PBT (Article 57 d)
162	Cobalt dichloride	231-5894	7646-799	28-10-2008	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)
163	Diarsenic pentaoxide	215-1169	1303-282	28-10-2008	Carcinogenic (Article 57a)
164	Diarsenic trioxide	215-4814	1327-533	28-10-2008	Carcinogenic (Article 57a)
165	Dibutyl phthalate (DBP)	201-5574	84-74-2	28-10-2008	Toxic for reproduction (Article 57c)
166	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified 1,2,5,6,9,10-hexabromocyclododecane EC no.: 221-695-9   CAS no.: 3194-55-6 gamma-hexabromocyclododecane EC no.: -   CAS no.: 134237-52-8 Hexabromocyclododecane EC no.: 247-1484   CAS no.: 25637-99-4 alpha-hexabromocyclododecane EC no.: -   CAS no.: 134237-50-6	-	-	28-10-2008	PBT (Article 57 d)

	beta-hexabromocyclododecane EC no.: -   CAS no.: 134237-51-7				
167	Lead hydrogen arsenate	232-0642	7784-409	28-10-2008	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)
168	Sodium dichromate	234-1903	10588-01-9, 7789-120	28-10-2008	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c)
169	Triethyl arsenate, Triethylarsenate	427-7002	1560695-8	28-10-2008	Carcinogenic (Article 57a)
170	4,4'-isopropylidenediphenol (bisphenol A)	201-2458	80-05-7	12-01-2017	Endocrine disrupting properties (Article 57(f) – environment)
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3	335-76-2	12-01-2017	Toxic for reproduction (Article 57c) PBT (Article 57 d)
172	4-heptylphenol, branched and linear (4-HPbl)	-	-	12-01-2017	Equivalent level of concern having probable serious effects to environment (Article 57 f)
173	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	12-01-2017	Equivalent level of concern having probable serious effects to environment (Article 57 f)
174	Perfluorohexane-1-sulphonic acid and its salts	-	-	07-07-2017	vPvB (Article 57e)
175	Benz[a]anthracene	200-280-6	56-55-3, 1718-532	15-01-2018	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)



176	Cadmium carbonate	208-1689	513-78-0	15-01-2018	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
					Specific target organ toxicity after repeated exposure (Article 57(f) – human health)
177	Cadmium hydroxide	244-1685	244-1685	15-01-2018	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
					Specific target organ toxicity after repeated exposure (Article 57(f) – human health)
178	Cadmium nitrate	233-7106	233-7106	15-01-2018	Carcinogenic (Article 57a)
					Mutagenic (Article 57b)
					Specific target organ toxicity after repeated exposure (Article 57(f) – human health)
179	Chrysene	205-9234	205-9234	15-01-2018	Carcinogenic (Article 57a)
					PBT (Article 57d)
					vPvB (Article 57e)
180	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus”™)	-	-	15-01-2018	vPvB (Article 57e)
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4heptylphenol, branched and linear (RP-HP)	-	-	15-01-2018	Endocrine disrupting properties (Article 57(f) – environment)
182	Octamethylcyclotetrasiloxane (D4)	209-1367	556-67-2	27-06-2018	PBT (Article 57d)

					vPvB (Article 57e)
183	Lead	231-1004	7439-921	27-06-2018	Toxic for reproduction (Article 57c)
184	Ethylenediamine EDA	203-4686	107-15-3	27-06-2018	Respiratory sensitising properties (Article 57(f) - human health)
185	Dodecamethylcyclhexasiloxane D6	208-7628	540-97-6	27-06-2018	PBT (Article 57d) vPvB (Article 57e)
186	Disodium octaborate	234-5410	1200841-2	27-06-2018	Toxic for reproduction (Article 57c)
187	Dicyclohexyl phthalate DCHP	201-5459	84-61-7	27-06-2018	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)
188	Decamethylcyclopentasiloxane D5	208-7649	541-02-6	27-06-2018	PBT (Article 57d) vPvB (Article 57e)
189	Benzo[ghi]perylene	205-8838	191-24-2	27-06-2018	PBT (Article 57d) vPvB (Article 57e)
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA	209-0080	552-30-7	27-06-2018	Respiratory sensitising properties (Article 57(f) - human health)
191	Terphenyl, hydrogenated	262-9677	6178832-7	27-06-2018	vPvB (Article 57e)
192	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	401-7201	6807-176	15-01-2019	Toxic for reproduction (Article 57c)
193	Benzo[k]fluoranthene	205-9166	207-08-9	15-01-2019	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
194	Fluoranthene	205-9124	206-44-0	15-01-2019	PBT (Article 57d)

					vPvB (Article 57e)
195	Phenanthrene	201-5815	85-01-8	15-01-2019	vPvB (Article 57e)
196	Pyrene	204-9273	129-00-0	15-01-2019	PBT (Article 57d) vPvB (Article 57e)
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-1399	1508724-8	15-01-2019	Endocrine disrupting properties (Article 57(f) - environment)
198	2-methoxyethyl acetate	203-7729	110-49-6	16-07-2019	Toxic for reproduction (Article 57 (c))
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4nonylphenol, branched and linear (4-NP)	-	-	16-07-2019	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)	-	-	16-07-2019	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment, human health)
201	4-tert-butylphenol	202-6790	98-54-4	16-07-2019	Endocrine disrupting properties (Article 57(f) )
202	Diisohexyl phthalate	276-0902	7185009-4	16-01-2020	Toxic for reproduction (Article 57 (c))
203	2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	404-3603	11931312-1	16-01-2020	Toxic for reproduction (Article 57 (c))
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-6006	7186810-5	16-01-2020	Toxic for reproduction (Article 57 (c))

205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	16-01-2020	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
206	1-vinylimidazole	214-0120	1072-635	25-06-2020	Toxic for reproduction (Article 57 (c))
207	2-methylimidazole	211-7657	693-98-1	25-06-2020	Toxic for reproduction (Article 57 (c))
208	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-1520	2267319-4	25-06-2020	Toxic for reproduction (Article 57 (c))
209	Butyl 4-hydroxybenzoate	202-3187	94-26-8	25-06-2020	Endocrine disrupting properties - human health
	(Butylparaben)				(Article 57(f) – human health)
210	Bis(2-(2-methoxyethoxy)ethyl)ether	205-5947	143-24-8	19-01-2021	Toxic for reproduction (Article 57 (c))
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	-	-	19-01-2021	Toxic for reproduction (Article 57 (c))

212	1,4-dioxane	204-6618	123-91-1	08-07-2021	Carcinogenic (Article 57a), 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)
213	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	253-057-0, 221-967-7, 202-4809	1522-92-5, 36483-57-5, 3296-90-0, 96-13-9	08-07-2021	Carcinogenic (Article 57a)
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	201-2898	75166-31-3, 80-54-6, 75166-30-2	08-07-2021	Toxic for reproduction (Article 57c)
215	4,4'-(1-methylpropylidene)bisphenol	201-0251	77-40-7	08-07-2021	Endocrine disrupting properties (Article 57(f) - environment) & Endocrine disrupting properties (Article 57(f) - human health)
216	glutaral	203-8565	111-30-8	08-07-2021	Respiratory sensitising properties (Article 57(f) - human health)

217	Medium-chain chlorinated paraffins (MCCP)	287-477-0, 950-299-5	1372804-76-6, 85535-85-9, 198840-65-2	08-07-2021	PBT (Article 57d) & vPvB (Article 57e)
218	orthoboric acid, sodium salt	238-253-6, 215-604-1, 237-5602	25747-83-5, 22454-04-2, 14312-40-4, 1333-73-9, 13840-56-7, 14890-53-0	08-07-2021	Toxic for reproduction (Article 57c)
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	310-1543	210555-94-5, 27459-10-5, 27147-75-7, 121158-58-5, 74499-35-7, 57427-55-1	08-07-2021	Toxic for reproduction (Article 57c), Endocrine disrupting properties (Article 57(f) - environment) & Endocrine disrupting properties (Article 57(f) - human health)
220	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1	17-01-2022	Toxic for reproduction (Article 57 c)
221	tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	17-01-2022	Toxic for reproduction (Article 57 c)
222	(±)-1,7,7-trimethyl-3-[(4methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	-	17-01-2022	Endocrine disrupting properties (Article 57 f - human health)
223	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	401-850-9	25588194-8	17-01-2022	PBT (Article 57 d)

224	N-(hydroxymethyl)acrylamide	213-934--0	924-42-5	10-06-2022	Carcinogenic (Article 57a) Mutagenic (Article 57b)
225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	253-692-3	37853-59-1	17-01-2023	Very persistent and very bioaccumulative (REACH Article 57 e)
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	201-236-9	79-94-7	17-01-2023	Carcinogenic (Article 57 a)
227	4,4'-sulphonyldiphenol	201-250-5	80-09-1	17-01-2023	Toxic for reproduction (Article 57 c); Endocrine disrupting properties (Article 57 f – environment); Endocrine disrupting properties (Article 57 f – human health)
228	Barium diboron tetraoxide	237-222-4	13701-59-2	17-01-2023	Toxic for reproduction (Article 57 c)
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof			17-01-2023	Very persistent and very bioaccumulative (Article 57 e)
230	Isobutyl 4-hydroxybenzoate	224-208-8	4247-02-3	17-01-2023	Endocrine disrupting properties (Article 57 f – human health)
231	Melamine	203-615-4	108-78-1	17-01-2023	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 )
232	Perfluoroheptanoic acid and its salts	-	-	17-01-2023	Toxic for reproduction (Article 57 c); Persistent, bioaccumulative and toxic (Article 57 d); Very persistent and very bioaccumulative (Article 57 e); 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 )
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	-	17-01-2023	Very persistent and very bioaccumulative (Article 57 e)

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