



Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-	Toxic for reproduction (Article 57 c)
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■ **The Announcement of the 12th 6 SVHCs List**

The ECHA has added six more chemical Substances of Very High Concern (SVHC) to the Candidate List on 17th December 2014.

The list of these 6 SVHCs and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
Cadmium fluoride	232-222-0	7790-79-6	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)
Cadmium sulphate	233-331-6	10124-36-4; 31119-53-6	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)
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	PBT (Article 57 d); vPvB (Article 57 e)
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	PBT (Article 57 d); vPvB (Article 57 e)
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	Toxic for reproduction (Article 57 c)
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)

■ **The Announcement of the 13th 2 SVHCs List**

The ECHA has added two more chemical Substances of Very High Concern (SVHC) to the Candidate List on 15th June 2015.

The list of these 2 SVHCs and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
1,2-benzenedicarboxylic acid, di-C6-10-alkyl	271-094-0;	68515-51-5;	Toxic for reproduction (Article 57 c)



esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	272-013-1	68648-93-1	
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)

■ The Announcement of the 14th 5 SVHCs List

The ECHA has added five more chemical Substances of Very High Concern (SVHC) to the Candidate List on 17th December 2015.

The list of these 5 SVHCs and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
Nitrobenzene	202-716-0	98-95-3	Toxic for reproduction (Article 57 c)
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	vPvB (Article 57 e)
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	vPvB (Article 57 e)
1,3-propanesultone	214-317-9	1120-71-4	Carcinogenic (Article 57 a)
Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4	Toxic for reproduction (Article 57 c) PBT (Article 57 d)

■ The Announcement of the 15th 1 SVHC List

The ECHA has added one more chemical Substances of Very High Concern (SVHC) to the Candidate List on 20th June 2016.

The list of these 1 SVHCs and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e)

■ The Announcement of the 16th 4 SVHC List

The ECHA has added four more chemical Substances of Very High Concern (SVHC) to the Candidate List on 12th January 2017.

The list of these 4 SVHCs and SVHC property are shown below:



Substance name	EC No.	CAS No.	SVHC property
4,4'-isopropylidenediphenol (bisphenol A; BPA)	201-245-8	80-05-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 - 221-470-5	335-76-2 3830-45-3 3108-42-7	Toxic for reproduction (Article 57c) PBT (Article 57d)
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	Equivalent level of concern having probable serious effects to environment (Article 57f)
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 57f)

■ The Announcement of the 17th 1 SVHC List

The ECHA has added one more chemical Substances of Very High Concern (SVHC) to the Candidate List on 7th July 2017.

The list of one SVHC and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	vPvB (Article 57e)

■ The Announcement of the 18th 7 SVHC List

The ECHA has added seven more chemical Substances of Very High Concern (SVHC) to the Candidate List on 15th January 2018.

The list of these 7 SVHCs and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
Chrysene	205-923-4	218-01-9	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
Benz[a]anthracene	200-280-6	56-55-3	Carcinogenic (Article 57a)



			PBT (Article 57d) vPvB (Article 57e)
Cadmium nitrate	233-710-6	10325-94-7	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
Cadmium hydroxide	244-168-5	21041-95-2	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
Cadmium carbonate	208-168-9	513-78-0	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
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)
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)

■ The Announcement of the 19th 10 SVHC List

The ECHA has added ten more chemical Substances of Very High Concern (SVHC) to the Candidate List on 27th June 2018.

The list of these 10 SVHCs and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
Octamethylcyclotetrasiloxane (D4)	209-136-7	556-67-2	PBT (Article 57d) vPvB (Article 57e)
Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6	PBT (Article 57d) vPvB (Article 57e)



Dodecamethylcyclhexasiloxane (D6)	208-762-8	540-97-6	PBT (Article 57d) vPvB (Article 57e)
Lead	231-100-4	7439-92-1	Toxic for reproduction (Article 57c)
Disodium octaborate	234-541-0	12008-41-2	Toxic for reproduction (Article 57c)
Benzo[ghi]perylene	205-883-8	191-24-2	PBT (Article 57d) vPvB (Article 57e)
Terphenyl hydrogenated	262-967-7	61788-32-7	vPvB (Article 57e)
Ethylenediamine (EDA)	203-468-6	107-15-3	Respiratory sensitising properties (Article 57(f) - human health)
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	209-008-0	552-30-7	Respiratory sensitising properties (Article 57(f) - human health)
Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)

■ The Announcement of the 20th 6 SVHC List

The ECHA has added six more chemical Substances of Very High Concern (SVHC) to the Candidate List on 15th January 2019.

The list of these six SVHCs and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8	Endocrine disrupting properties (Article 57(f) - environment)
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	Toxic for reproduction (Article 57c)
Benzo[k]fluoranthene	205-916-6	207-08-9	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
Fluoranthene	205-912-4	206-44-0; 93 951-69-0	PBT (Article 57d) vPvB (Article 57e)
Phenanthrene	201-581-5	85-01-8	vPvB (Article 57e)
Pyrene	204-927-3	129-00-0; 17 18-52-1	PBT (Article 57d) vPvB (Article 57e)

■ The Announcement of the 21st 4 SVHC List

The ECHA has added four more chemical Substances of Very High Concern (SVHC) to the Candidate List on 16th July 2019.

The list of these four SVHCs and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
2-methoxyethyl acetate	203-772-9	110-49-6	Toxic for reproduction (Article 57(c))
Tris(4-nonylphenyl, branched and linear) phosphite	-	-	Endocrine disrupting properties (Article 57(f) - human health)



te (TNPP) with \geq 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)			icle 57(f) – environment)
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)
4-tert-butylphenol	202-679-0	98-54-4	Endocrine disrupting properties (Article 57(f) – environment)

■ The Announcement of the 22nd 4 SVHC List

The ECHA has added four more chemical Substances of Very High Concern (SVHC) to the Candidate List on 16th January 2020.

The list of these four SVHCs and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
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)
Diisohexyl phthalate	276-090-2	71850-09-4	Toxic for reproduction (Article 57c)
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	Toxic for reproduction (Article 57c)
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	Toxic for reproduction (Article 57c)

■ The Announcement of the 23rd 4 SVHC List

The ECHA has added four more chemical Substances of Very High Concern (SVHC) to the Candidate List on 25th June 2020.

The list of these four SVHCs and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
1-vinylimidazole	214-012-0	1072-63-5	Toxic for reproduction (Article 57 (c))
2-methylimidazole	211-765-7	693-98-1	Toxic for reproduction (Article 57 (c))
Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	Toxic for reproduction (Article 57 (c))



Butyl 4-hydroxybenzoate (Butylparaben)	202-318-7	94-26-8	Endocrine disrupting properties - human health (Article 57(f) – human health)
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■ The Announcement of the 24th 2 SVHC List

The ECHA has added two more chemical Substances of Very High Concern (SVHC) to the Candidate List on 19th January 2021.

The list of these two SVHCs and SVHC property are shown below:

Substance name	EC No.	CAS No.	SVHC property
Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	Solvent/extraction agent. Toxic for reproduction (Article 57 (c))
Diocetyl tin dilaurate, stannane, dioctyl-, bis(cocooxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C 12 is the predominant carbon number of the fatty acyloxy moiety	-	-	Not registered under REACH. The mono-constituent form of the substance (dioctyl tin dilaurate) is used as an additive in the production of plastics and rubber tyres. Toxic for reproduction (Article 57 (c))

■ The announcement of the 25th 8 SVHC List

The ECHA has added eight more chemical Substances of Very High Concern (SVHC) to the Candidate List on 8th July 2021.

Substance name	EC No.	CAS No.	SVHC property
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	Toxic for reproduction (Article 57 c)
Orthoboric acid, sodium salt	237-560-2	13840-56-7	Toxic for reproduction (Article 57 c)
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)	221-967-7, 253-057-0, 202-480-9	3296-90-0, 36483-57-5, 1522-92-5, 96-13-9	Carcinogenic (Article 57 a)
Glutaral	203-856-5	111-30-8	Respiratory sensitising properties (Article 57f - human health)
Medium-chain chlorinated paraffins (MCCP)	-	-	PBT (Article 57d)



(UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17)			vPvB (Article 57e)
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)
1,4-dioxane	204-661-8	123-91-1	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)
4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7	Endocrine disrupting properties (Article 57f - human health and environment)

- According to REACH regulation, all EU manufacturers or importers of the 219 SVHCs should fulfill either one of the following regulatory obligations:
 1. should supply Safety Data Sheet (SDS/MSDS) to their downstream users when the SVHC concerned is sold as a substance on itself; or
 2. should supply SDS/MSDS to their downstream users when the SVHC concerned is produced or imported at or above 0.1% w/w in a mixture or preparation; or
 3. should supply the product recipient or in request of the product consumers, with available sufficient information, free of charge, which covers at least the name of the substance, within 45 days on receiving the request, if the SVHC is above 0.1% w/w threshold in an article.
- All EU manufacturers or importers must submit a notification for SVHCs placed on EU market before June 1, 2011 to European Chemicals Agency (ECHA), if the substance is produced or imported above the quantity of 1 tonne per year and its concentration percentage in the article above the threshold of 0.1% w/w.

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