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## 54 new SVHCs added to the REACH Candidate List

On 19 December 2012, the 8th update of the REACH Candidate List was officially published<sup>1</sup> on the website of the European Chemicals Agency (ECHA). Fifty-four substances are included as Substances of Very High Concern (SVHC). The Candidate List now contains 138 SVHCs in total. The newly added SVHCs are the same as those proposed during the public consultation and meets the target set by the European Commission (EC) of having at least 136 SVHCs on the Candidate List<sup>2</sup> by the end of 2012. However, the EC is aiming for a more ambitious goal for the inclusion of all SVHCs by 2020. Discussions are currently in progress among the EC, Member States and the ECHA.

For the current update, Member State Committee (MSC) has identified 23 chemicals. Substances which are respiratory sensitizers are added as substances of very high concern (SVHCs) for the first time. They are diazene-1,2-dicarboxamide (ADCA), hexahydro-2-benzofuran-1,3-dione (HHPA) and hexahydromethylphthalic anhydride (MHHPA). Besides, two endocrine disruptors 4-Nonylphenol, branched and linear and 4-(1,1,1,3,3-tetramethylbutyl)phenol, ethoxylated are included. The property of the other newly added substances is carcinogenic, mutagenic or toxic for reproduction category 1A or 1B, persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB). Table A shows a list of newly added SVHCs.

### Candidate List Obligation<sup>3</sup>

Once the new SVHCs are added to the Candidate List, it immediately triggers the communication obligation along the supply chain if the articles contain one or more SVHCs in concentration over 0.1% weight by weight. In addition, companies which manufacture or import articles should submit notification to the ECHA starting from 19 June 2012 if the following conditions are met:

- i. The substance is present in those articles in quantities totalling over one tonne per producer or importer per year
- ii. The substance is present in those articles above a concentration of 0.1% weight by weight.

The inclusion of the SVHCs into the Candidate List is the first step of Authorisation<sup>4</sup>. The ECHA recommends SVHCs listed on the Candidate List to the European Commission (EC) regularly. The EC will determine whether it is necessary to include the substances into the Authorisation List (Annex XIV).



**Table A: Newly added 54 SVHCs on the REACH Candidate List**

No.	Substance name	EC number	CAS Number	SVHC property
1	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	PBT (Article 57 d); vPvB (Article 57 e)
2	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	vPvB (Article 57 e)
3	Tricosafuorododecanoic acid	206-203-2	307-55-1	vPvB (Article 57 e)

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No.	Substance name	EC number	CAS Number	SVHC property
4	Henicosafuoroundecanoic acid	218-165-4	2058-94-8	vPvB (Article 57 e)
5	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	vPvB (Article 57 e)
6	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	Equivalent level of concern having probable serious effects to human health (Article 57 f)
7	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 substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	Equivalent level of concern having probable serious effects to human health (Article 57 f)
8	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]	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	Equivalent level of concern having probable serious effects to human health (Article 57 f)
9	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]	-	-	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
10	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)
11	Methoxyacetic acid	210-894-6	625-45-6	Toxic for reproduction (Article 57 c)
12	N,N-dimethylformamide	200-679-5	68-12-2	Toxic for reproduction (Article 57 c)
13	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	Toxic for reproduction (Article 57 c)
14	Lead monoxide (Lead oxide)	215-267-0	1317-36-8	Toxic for reproduction (Article 57 c)
15	Orange lead (Lead tetroxide)	215-235-6	1314-41-6	Toxic for reproduction (Article 57 c)
16	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	Toxic for reproduction (Article 57 c)
17	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	Toxic for reproduction (Article 57 c)
18	Lead titanium trioxide	235-038-9	12060-00-3	Toxic for reproduction (Article 57 c)
19	Lead titanium zirconium oxide	235-727-4	12626-81-2	Toxic for reproduction (Article 57 c)
20	Silicic acid, lead salt	234-363-3	11120-22-2	Toxic for reproduction (Article 57 c)
21	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]	272-271-5	68784-75-8	Toxic for reproduction (Article 57 c)
22	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	Toxic for reproduction (Article 57 c)
23	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	Carcinogenic (Article 57a); Mutagenic (Article 57b)
24	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	Toxic for reproduction (Article 57 c)
25	Diisopentylphthalate (DIPP)	210-088-4	605-50-5	Toxic for reproduction (Article 57 c)
26	N-pentyl-isopentylphthalate	-	776297-69-9	Toxic for reproduction (Article 57 c)
27	1,2-diethoxyethane	211-076-1	629-14-1	Toxic for reproduction (Article 57 c)
28	Acetic acid, lead salt, basic	257-175-3	51404-69-4	Toxic for reproduction (Article 57 c)
29	Lead oxide sulfite	234-853-7	12036-76-9	Toxic for reproduction (Article 57 c)

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No.	Substance name	EC number	CAS Number	SVHC property
30	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	Toxic for reproduction (Article 57 c)
31	Dioxobis(stearato)trilead	235-702-8	12578-12-0	Toxic for reproduction (Article 57 c)
32	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	Toxic for reproduction (Article 57 c)
33	Lead cyanidate	244-073-9	20837-86-9	Toxic for reproduction (Article 57 c)
34	Lead dinitrate	233-245-9	10099-74-8	Toxic for reproduction (Article 57 c)
35	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	Toxic for reproduction (Article 57 c)
36	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	Toxic for reproduction (Article 57 c)
37	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	Toxic for reproduction (Article 57 c)
38	Tetraethyllead	201-075-4	78-00-2	Toxic for reproduction (Article 57 c)
39	Tetralead trioxide sulphate	235-380-9	12202-17-4	Toxic for reproduction (Article 57 c)
40	Trilead dioxide phosphonate	235-252-2	12141-20-7	Toxic for reproduction (Article 57 c)
41	Furan	203-727-3	110-00-9	Carcinogenic (Article 57a)
42	Diethyl sulphate	200-589-6	64-67-5	Carcinogenic (Article 57a); Mutagenic (Article 57b)
43	Dimethyl sulphate	201-058-1	77-78-1	Carcinogenic (Article 57a)
44	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	Toxic for reproduction (Article 57 c)
45	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	Toxic for reproduction (Article 57 c)
46	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	Carcinogenic (Article 57a)
47	4,4'-oxydianiline and its salts	202-977-0	101-80-4	Carcinogenic (Article 57a); Mutagenic (Article 57b)
48	4-aminoazobenzene	200-453-6	60-09-3	Carcinogenic (Article 57a)
49	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	Carcinogenic (Article 57a)
50	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	Carcinogenic (Article 57a)
51	Biphenyl-4-ylamine	202-177-1	92-67-1	Carcinogenic (Article 57a)
52	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	202-591-2	97-56-3	Carcinogenic (Article 57a)
53	o-toluidine	202-429-0	95-53-4	Carcinogenic (Article 57a)
54	N-methylacetamide	201-182-6	79-16-3	Toxic for reproduction (Article 57 c)

<sup>1</sup> Press release from the ECHA [http://echa.europa.eu/view-article/-/journal\\_content/b5d76d7f-7b28-4081-bd5c-9500e01e1ab2](http://echa.europa.eu/view-article/-/journal_content/b5d76d7f-7b28-4081-bd5c-9500e01e1ab2)

<sup>2</sup> The official Candidate List: [http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

<sup>3</sup> Candidate List obligations: <http://echa.europa.eu/candidate-list-obligations>

<sup>4</sup> Description of authorisation <http://echa.europa.eu/web/guest/regulations/reach/authorisation>

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