

# SAFE GUARDS

SGS CONSUMER TESTING SERVICES

HARDGOODS, TOYS & JUVENILE PRODUCTS, SOFTLINES, ELECTRICAL & ELECTRONICS

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## SVHC CANDIDATE LIST EXPANDS TO CONTAIN 138 ENTRIES

On December 19 2012, 54 new substances were added to the [Candidate List of Substances of Very High Concern \(SVHC\) for Authorization](#). The European Commission has achieved its proposed goal of having 136 SVHCs on the candidate list by the end of 2012, and the list now contains 138 substances in total. The Commission has started discussing the target of getting all known and relevant SVHC substances identified by 2020, and developing a roadmap for this which is expected to be published at the end of the year.<sup>1</sup>

### OBLIGATIONS FOR EU ARTICLE PRODUCERS AND IMPORTERS

According to Article 33 of REACH, any supplier of European Union (EU) and European Economic Area (EEA) of articles containing SVHC Candidate in a concentration above 0.1% (w/w) shall provide safe use information to the recipients upon supply and consumer upon request within 45 days. This year, the German Environmental Agency has launched an [online checking system of SVHC in everyday products](#), consumers can enter a product barcode number in the tool and a request is then automatically sent to the product manufacturer.

Notification is required when SVHC concentration >0.1% (w/w) in an article and the overall quantity in all articles is more than 1 tonne per year per producer or importer. In November

2012, ECHA had launched a [new web form for notifying SVHCs in articles](#), EU producers and importers of articles can now submit notifications through the new online web form. The notification deadline for the 13 SVHCs included in the candidate list on June 18 2012 is already passed. The notification deadline of the newly added 54 SVHCs is June 19 2013.

### THE NEWLY ADDED SVHCS

Among the 54 newly added SVHCs, there are four Perfluorinated compounds (PFCs), namely Henicosafuoroundecanoic acid, Heptacosafuorotetradecanoic acid, Pentacosafuorotridecanoic acid and Tricosafuorododecanoic acid, those long chain perfluorocarboxylic acids (PFCAs) are used in the production of fluoropolymers and fluorotelomers and as additives and components in industrial and consumer products such as outdoor clothing.

A [European Parliament report](#) states that endocrine disruptors should be regulated, preferably as SVHC within the REACH framework. In the current SVHC candidate list update, two substances were identified as SVHC due to their endocrine disrupting properties, they are 4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated and 4-Nonylphenol. Moreover, three substances, C,C'-azodi(formamide), hexahydro-2-benzofuran-1,3-dione and hexahydromethylphthalic anhydride were the first respiratory sensitizers included in the SVHC Candidate List.

The non-exhaustive information about potential uses of the 54 newly added SVHCs is summarized in Table 1.

<sup>1</sup> [Candidate List – the way ahead](#)

**TABLE 1. POTENTIAL USES OF 54 SVHC CANDIDATES PUBLISHED BY ECHA ON DECEMBER 19 2012**

NO.	SUBSTANCE	CAS NO./ EC NO.	CLASSIFICATION	POTENTIAL USES
1	[Phthalato(2-)]dioxotrilead	69011-06-9/ 273-688-5	Repr. 1A	<ul style="list-style-type: none"> <li>Used in PVC processing</li> </ul>
2	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0/ 284-032-2	Repr. 1B	<ul style="list-style-type: none"> <li>Used as plasticizers in plastic material</li> </ul>
3	1,2-Diethoxyethane	629-14-1/ 211-076-1	Repr. 1B	<ul style="list-style-type: none"> <li>Used as solvent and diluent for detergents</li> <li>Used as solvent for ester gum and some resin</li> <li>Used in ink formulations</li> </ul>
4	1-Bromopropane	106-94-5/ 203-445-0	Repr. 1B	<ul style="list-style-type: none"> <li>Used in textile, ink, adhesive and coatings</li> </ul>
5	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2/ 421-150-7	Repr. 1B	<ul style="list-style-type: none"> <li>Used in paint for polyurethane, polyurethane finishing and sealants</li> </ul>
6	4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated	-	EQC	<ul style="list-style-type: none"> <li>Used as surfactants</li> <li>Used in the formulation of paints</li> <li>Used as textile and leather auxiliaries</li> <li>Used in cleaning of metal surfaces</li> </ul>
7	4,4'-Methylenedi- <i>o</i> -toluidine	838-88-0/ 212-658-8	Carc. 1B	<ul style="list-style-type: none"> <li>Chemical intermediate for dyes</li> </ul>
8	4,4'-Oxydianiline	101-80-4/ 202-977-0	Carc. 1B, Muta. 1B	<ul style="list-style-type: none"> <li>Chemical intermediate for polyimide and poly(ester-imide) resins</li> </ul>
9	4-Aminoazobenzene	60-09-3/ 200-453-6	Carc. 1B	<ul style="list-style-type: none"> <li>Used as dye for lacquers, varnishes, wax products and styrene resins</li> </ul>
10	4-Methyl- <i>m</i> -phenylenediamine	95-80-7/ 202-453-1	Carc. 1B	<ul style="list-style-type: none"> <li>Used in the preparation of dyes, polyurethane, impact resins, polyimides with superior wire coating properties</li> </ul>
11	4-Nonylphenol, branched and linear	-	EQC	<ul style="list-style-type: none"> <li>Used as detergent and textile auxiliaries</li> <li>Used as a component of phenolic resins used in paper coatings</li> <li>Used as antioxidants and plasticizers in plastic products</li> <li>Used in paints and lacquers, varnishes, coloring agents, printing inks, adhesives and sealants</li> <li>Used in the manufacture of phenol-formaldehyde-resins used in rubber</li> </ul>
12	6-Methoxy- <i>m</i> -toluidine	120-71-8/ 204-419-1	Carc. 1B	<ul style="list-style-type: none"> <li>Chemical intermediate for dyes</li> </ul>

*To be con'd*

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NO.	SUBSTANCE	CAS NO./ EC NO.	CLASSIFICATION	POTENTIAL USES
13	Acetic acid, lead salt, basic	51404-69-4/ 257-175-3	Repr. 1A	<ul style="list-style-type: none"> <li>• Manufacture of computer, electronic and optical products, electrical equipment</li> </ul>
14	Biphenyl-4-ylamine	92-67-1/ 202-177-1	Carc. 1A	<ul style="list-style-type: none"> <li>• Chemical intermediate for dyes</li> </ul>
15	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5/ 214-604-9	PBT, vPvB	<ul style="list-style-type: none"> <li>• Used as a flame retardant in plastics, textile and adhesive</li> </ul>
16	C,C'-azodi(formamide)	123-77-3/ 204-650-8	EOC	<ul style="list-style-type: none"> <li>• Used as blowing agent for rubber and plastic</li> </ul>
17	Dibutyltin dichloride	683-18-1/ 211-670-0	Repr. 1B	<ul style="list-style-type: none"> <li>• Used as an additive in rubber, stabilizer in PVC plastics</li> <li>• Used in the production of polyurethanes and silicones</li> <li>• Used in insulations and coatings</li> <li>• Used in the manufacture of organic esters used in plasticizers and lubricants</li> </ul>
18	Diethyl sulphate	64-67-5/ 200-589-6	Carc.1B, Muta. 1B	<ul style="list-style-type: none"> <li>• Used in dye manufacture and pigment production.</li> <li>• Used as a finishing agent in textile manufacture and as a dye-set agent in carbonless paper</li> </ul>
19	Diisopentylphthalate (DIPP)	605-50-5/ 210-088-4	Repr. 1B	<ul style="list-style-type: none"> <li>• Used in the manufacture of propellant</li> <li>• Used as plasticizer for PVC products and other polymers</li> </ul>
20	Dimethyl sulphate	77-78-1/ 201-058-1	Carc. 1B	<ul style="list-style-type: none"> <li>• Used in polyurethane-based adhesives, fabric softeners and dyes</li> </ul>
21	Dinoseb	88-85-7/ 201-861-7	Repr. 1B	<ul style="list-style-type: none"> <li>• Used of process regulators for polymerization processes in production of resins, rubbers, polymers</li> </ul>
22	Dioxobis(stearato)trilead	12578-12-0/ 235-702-8	Repr. 1A	<ul style="list-style-type: none"> <li>• Used in PVC processing</li> </ul>
23	Fatty acids, C16-18, lead salts	91031-62-8/ 292-966-7	Repr. 1A	<ul style="list-style-type: none"> <li>• Used in PVC processing</li> </ul>
24	Furan	110-00-9/ 203-727-3	Carc. 1B	<ul style="list-style-type: none"> <li>• Used in the formation of lacquers and as a solvent for resins</li> <li>• Used in adhesive</li> </ul>
25	Henicosafuoroundecanoic acid	2058-94-8/ 218-165-4	vPvB	<ul style="list-style-type: none"> <li>• Used in the production of fluoropolymers and fluorotelomers</li> </ul>
26	Heptacosafuorotetradecanoic acid	376-06-7/ 206-803-4	vPvB	<ul style="list-style-type: none"> <li>• Used in the production of fluoropolymers and fluorotelomers</li> </ul>

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NO.	SUBSTANCE	CAS NO./ EC NO.	CLASSIFICATION	POTENTIAL USES
27	Hexahydro-2-benzofuran-1,3-dione, <i>cis</i> -cyclohexane-1,2-dicarboxylic anhydride, <i>trans</i> -cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3/ 201-604-9, 236-086-3, 238-009-9	EQC	<ul style="list-style-type: none"> <li>Intermediate for plasticizers, insect repellents and rust inhibitors.</li> <li>Used as hardener in epoxy resins</li> <li>Used in the manufacture of polyester and alkyd resins</li> </ul>
28	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9/ 247-094-1, 243-072-0, 256-356-4, 260-566-1	EQC	<ul style="list-style-type: none"> <li>Used in the manufacture of polyester and alkyd resins and plasticizers for thermoplastic polymers.</li> <li>Used as hardeners for epoxy resins and chain cross-linkers for thermoplastic polymers</li> </ul>
29	Lead bis(tetrafluoroborate)	13814-96-5/ 237-486-0	Repr. 1A	<ul style="list-style-type: none"> <li>Used as electroplating solution for metal coating</li> <li>Used as curing agent for epoxy resins</li> <li>Used in the production of linear polyesters</li> <li>Used in metal finishing</li> </ul>
30	Lead cyanamidate	20837-86-9/ 244-073-9	Repr. 1A	<ul style="list-style-type: none"> <li>Used as anticorrosive pigment</li> </ul>
31	Lead dinitrate	10099-74-8/ 233-245-9	Repr. 1A	<ul style="list-style-type: none"> <li>Used as mordant in dyeing and printing on textiles</li> <li>Used in rayon delustering, heat stabilizer in nylon and esterification catalyst for polyesters</li> <li>Used as a coating on paper for photothermography</li> </ul>
32	Lead monoxide	1317-36-8/ 215-267-0	Repr. 1A	<ul style="list-style-type: none"> <li>Used in lead-acid storage batteries.</li> <li>Used in electronic components</li> <li>Used as a vulcanizing agent in rubber and plastic</li> <li>Used in the manufacture of pigments for rubber, porcelain and glass</li> </ul>
33	Lead oxide sulphate	12036-76-9/ 234-853-7	Repr. 1A	<ul style="list-style-type: none"> <li>Used in PVC processing</li> </ul>

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NO.	SUBSTANCE	CAS NO./ EC NO.	CLASSIFICATION	POTENTIAL USES
34	Lead tetroxide	1314-41-6/ 215-235-6	Repr. 1A	<ul style="list-style-type: none"> <li>Used in the manufacture of glass</li> <li>Used in glaze for faience and flux for porcelain painting</li> <li>Used as protective paint for iron and steel</li> <li>Used in adhesives for polyester tire cords</li> <li>Used in positive battery plates</li> <li>Used in electrically conductive polymer compositions</li> <li>Used in the vulcanization of rubber</li> </ul>
35	Lead titanium trioxide	12060-00-3/ 235-038-9	Repr. 1A	<ul style="list-style-type: none"> <li>Used in the manufacture of computer, electronic and optical products, electrical equipment</li> </ul>
36	Lead Titanium Zirconium Oxide	12626-81-2/ 235-727-4	Repr. 1A	<ul style="list-style-type: none"> <li>Used in the manufacture of electro-ceramic components</li> </ul>
37	Methoxyacetic acid	625-45-6/ 210-894-6	Repr. 1B	<ul style="list-style-type: none"> <li>Used in the manufacture of fabricated metal product</li> </ul>
38	N,N-dimethylformamide	68-12-2/ 200-679-5	Repr. 1B	<ul style="list-style-type: none"> <li>Used in acrylic fiber production</li> <li>Solvent for depositing polyurethane coatings on leather</li> </ul>
39	N-methylacetamide	79-16-3/ 201-182-6	Repr. 1B	<ul style="list-style-type: none"> <li>Chemical intermediate for the production of pesticide</li> </ul>
40	N-pentyl-isopentylphthalate	776297-69-9/ -	Repr. 1B	<ul style="list-style-type: none"> <li>Used as plasticizers in plastic material</li> </ul>
41	<i>o</i> -Aminoazotoluene	97-56-3/ 202-591-2	Carc. 1B	<ul style="list-style-type: none"> <li>Used in the manufacture of dyes</li> </ul>
42	<i>o</i> -Toluidine	95-53-4/ 202-429-0	Carc. 1B	<ul style="list-style-type: none"> <li>Used in the manufacture of dyes</li> <li>Used as an intermediate for synthetic rubber</li> </ul>
43	Pentacosafuorotridecanoic acid	72629-94-8/ 276-745-2	vPvB	<ul style="list-style-type: none"> <li>Used in the production of fluoropolymers and fluorotelomers</li> </ul>
44	Pentalead tetraoxide sulphate	12065-90-6/ 235-067-7	Repr. 1A	<ul style="list-style-type: none"> <li>Used in lead battery production</li> <li>Used in PVC processing</li> </ul>
45	Propylene oxide	75-56-9/ 200-879-2	Carc. 1B, Muta. 1B	<ul style="list-style-type: none"> <li>Used in the manufacture of polyethers, to form polyurethanes</li> <li>Used in the manufacture of detergent</li> </ul>

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NO.	SUBSTANCE	CAS NO./ EC NO.	CLASSIFICATION	POTENTIAL USES
46	Pyrochlore, antimony lead yellow	8012-00-8/ 232-382-1	Repr. 1A	<ul style="list-style-type: none"> <li>Formulation of pyrochlore in glazes</li> </ul>
47	Silicic acid, barium salt, lead-doped	68784-75-8/ 272-271-5	Repr. 1A	<ul style="list-style-type: none"> <li>Used for coating glass lamp bulbs</li> </ul>
48	Silicic acid, lead salt	11120-22-2/ 234-363-3	Repr. 1A	<ul style="list-style-type: none"> <li>Used in lead crystalware manufacture</li> </ul>
49	Sulfurous acid, lead salt, dibasic	62229-08-7/ 263-467-1	Repr. 1A	<ul style="list-style-type: none"> <li>Used as PVC processing</li> </ul>
50	Tetraethyllead	78-00-2/ 201-075-4	Repr. 1A	<ul style="list-style-type: none"> <li>Used as anti-knock additive in gasoline</li> </ul>
51	Tetralead trioxide sulphate	12202-17-4/ 235-380-9	Repr. 1A	<ul style="list-style-type: none"> <li>Used in battery</li> <li>Used in PVC production</li> </ul>
52	Tricosafuorododecanoic acid	307-55-1/ 206-203-2	vPvB	<ul style="list-style-type: none"> <li>Used in the production of fluoropolymers and fluorotelomers</li> </ul>
53	Trilead bis(carbonate)dihydroxide	1319-46-6/ 215-290-6	Repr. 1A	<ul style="list-style-type: none"> <li>Used in polyesters, polyethylene wire insulation, lead carbonate paper</li> <li>Used in ceramic glaze, pigment and color-changing component of temperature-sensitive inks,</li> <li>Used as heat stabilizer for PVC.</li> <li>Used in the processing of parchment.</li> </ul>
54	Trilead dioxide phosphonate	12141-20-7/ 235-252-2	Repr. 1A	<ul style="list-style-type: none"> <li>Used in PVC processing</li> </ul>

EQC: Substance of equivalent level of concern

SGS will follow up and inform interested parties as developments on REACH regulation occur. Our expertise combined with consultancy services and experience in consumer product supply chains provides a central point of contact for global solutions. If you would like to learn more about how SGS can support your REACH compliance activities please contact us at [reach@sgs.com](mailto:reach@sgs.com) or visit

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