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www.amphenol-socapex.com

**Ref:** CM / MLa 19-012  
**From :** Martine LADIETTE  
**To :** To whom it may concern  
**Date :** January 17, 2019  
**Subject :** REACH Regulation

Please find hereafter the Amphenol Socapex updated status regarding the REACH regulation:

1. Registration process:

Amphenol Socapex does not manufacture or buy chemicals in excess of 1 ton a year, and our articles are not intended to release any substance. So we are not concerned by the registration procedure. We are working with our suppliers to be sure that they (or their suppliers) have pre-registered/registered their concerned substances.

2. Authorization process:

We constantly make sure that:

- All the safety data sheets we need are updated and available in our manufacturing plant of Thyez.
- The different uses of chemicals we have are covered with the planned exposure scenarios.

3. Restriction process:

We constantly make sure that we conform to Annex XVII of REACH, for the paragraphs applicable to our activities.

4. Candidate list (SVHC: Substances of Very High Concern):

A list of 197 substances has been published on January 15, 2019- See table page 2 to page 17.

**Amphenol Socapex confirms that the intentional composition of the articles we put on the market do not contain one of these substances above a maximum concentration as defined in the REACH Regulation as the 0.1% by weight in the articles, except for:**

- **Cadmium:** Generally, our Cadmium plated connectors contain Cadmium in quantity greater than 0.1% weight of the article.
- **“Dechlorane Plus”™ - Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene:** Some cables can contain more than 0.1% weight of this substance.
- **Lead:** Lead can be found in quantity >0.1% weight of the article in raw material (ex: copper alloys) or plating (Tin/Lead plating for soldering).

**Amphenol Socapex will give the detailed information separately to his customers, upon request.**

Amphenol Socapex does not independently conduct analytical testing for REACH. The information in this letter is based upon technical data from our supply chain which is believed to be reliable and accurate. The information provided is subject to change as additional experience and knowledge is gained. Amphenol Socapex will notify its concerned customers upon the discovery of any article containing a SVHC above a maximum concentration as defined in REACH.

Please feel free to contact me for further information.  
Best regards



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CM / MLa 19-012 (cont'd)

List of candidate substances ("Candidate List") - January 15, 2019

Name	EC Number	CAS Number	Reason for inclusion
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	Carcinogenic (article 57a)
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	vPvB (article 57e)
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	PBT and vPvB (articles 57 d and 57 e)
Anthracene	204-371-1	120-12-7	PBT (article 57d)
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	Toxic for reproduction (article 57c)
Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	PBT (article 57d)
Cobalt dichloride	231-589-4	7646-79-9	Carcinogenic and toxic for reproduction (articles 57a and 57c)
Diarsenic pentaoxide	215-116-9	1303-28-2	Carcinogenic (article 57a)
Diarsenic trioxide	215-481-4	1327-53-3	Carcinogenic (article 57a)
Dibutyl phthalate (DBP)	201-557-4	84-74-2	Toxic for reproduction (article 57c)
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:  Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	PBT (article 57d)
Lead hydrogen arsenate	232-064-2	7784-40-9	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Sodium dichromate	234-190-3	7789-12-0/ 10588-01-9	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)
Triethyl arsenate	427-700-2	15606-95-8	Carcinogenic (article 57a)
2,4-Dinitrotoluene	204-450-0	121-14-2	Carcinogenic (article 57a)

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Name	EC Number	CAS Number	Reason for inclusion
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 (µm) c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight	/	/	Carcinogenic (article 57 a)
Anthracene oil	292-602-7	90640-80-5	Carcinogenic <sup>1</sup> , PBT and vPvB (articles 57a, 57d and 57e)
Anthracene oil, anthracene-low	292-604-8	90640-82-7	Carcinogenic <sup>2</sup> , mutagenic <sup>3</sup> , PBT and vPvB (articles 57a, 57b, 57d and 57e)
Anthracene oil, anthracene paste	292-603-2	90640-81-6	Carcinogenic <sup>2</sup> , mutagenic <sup>3</sup> , PBT and vPvB (articles 57a, 57b, 57d and 57e)
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	Carcinogenic <sup>2</sup> , mutagenic <sup>3</sup> , PBT and vPvB (articles 57a, 57b, 57d and 57e)
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	Carcinogenic <sup>2</sup> , mutagenic <sup>3</sup> , PBT and vPvB (articles 57a, 57b, 57d and 57e)
Diisobutyl phthalate	201-553-2	84-69-5	Toxic for reproduction (article 57c)
Lead chromate	231-846-0	7758-97-6	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

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Name	EC Number	CAS Number	Reason for inclusion
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Pitch, coal tar, high temp.	266-028-2	65996-93-2	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	Toxic for reproduction (article 57c)
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 (µm). c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight	/	/	Carcinogenic (article 57a)
Acrylamide	201-173-7	79-06-1	Carcinogenic and mutagenic (articles 57 a and 57 b)
Trichloroethylene	201-167-4	79-01-6	Carcinogenic (article 57 a)
Boric acid	233-139-2 / 234-343-4	10043-35-3 / 11113-50-1	Toxic for reproduction (article 57 c)
Disodium tetraborate, anhydrous	215-540-4	1303-96-4/ 1330-43-4/ 12179-04-3	Toxic for reproduction (article 57 c)

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Name	EC Number	CAS Number	Reason for inclusion
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	Toxic for reproduction (article 57 c)
Potassium dichromate	231-906-6	7778-50-9	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
Ammonium dichromate	232-143-1	7789-09-5	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
Potassium chromate	232-140-5	7789-00-6	Carcinogenic and mutagenic (articles 57 a and 57 b).
Sodium chromate	231-889-5	7775-11-3	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
Cobalt(II) sulphate	233-334-2	10124-43-3	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Cobalt(II) dinitrate	233-402-1	10141-05-6	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Cobalt(II) carbonate	208-169-4	513-79-1	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Cobalt(II) diacetate	200-755-8	71-48-7	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
2-Methoxyethanol	203-713-7	109-86-4	Toxic for reproduction (article 57c)
2-Ethoxyethanol	203-804-1	110-80-5	Toxic for reproduction (article 57c)
Chromium trioxide	215-607-8	1333-82-0	Carcinogenic and mutagenic (articles 57 a and 57 b)
Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	231-801-5, 236-881-5	7738-94-5, 13530-68-2	Carcinogenic (article 57a)
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	Toxic for reproduction (article 57c)
1,2,3-Trichloropropane	202-486-1	96-18-4	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
1-Methyl-2-pyrrolidone	212-828-1	872-50-4	Toxic for reproduction (article 57c)

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Name	EC Number	CAS Number	Reason for inclusion
Hydrazine	206-114-9	302-01-2 / 7803-57-8	Carcinogenic (article 57a)
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	Toxic for reproduction (article 57c)
Strontium chromate	232-142-6	7789-06-2	Carcinogenic (article 57a)
2-Ethoxyethyl acetate	203-839-2	111-15-9	Toxic for reproduction (article 57c)
Calcium arsenate	231-904-5	7778-44-1	Carcinogenic (article 57 a)
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	Toxic for reproduction (article 57 c)
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	Carcinogenic (article 57 a)
Lead dipicrate	229-335-2	6477-64-1	Toxic for reproduction (article 57 c)
N,N-dimethylacetamide	204-826-4	127-19-5	Toxic for reproduction (article 57 c)
Arsenic acid	231-901-9	7778-39-4	Carcinogenic (article 57 a)
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	Carcinogenic (article 57 a)
Trilead diarsenate	222-979-5	3687-31-8	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	Carcinogenic (article 57 a)
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	Carcinogenic (article 57 a)
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	Toxic for reproduction (article 57 c)
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	Equivalent level of concern having probable serious effects to the environment (article 57 f)
Lead diazide, Lead azide	236-542-1	13424-46-9	Toxic for reproduction (article 57 c)
Phenolphthalein	201-004-7	77-09-8	Carcinogenic (article 57 a)
Dichromium tris(chromate)</	246-356-2	24613-89-6	Carcinogenic (article 57 a)
Lead styphnate	239-290-0	15245-44-0	Toxic for reproduction (article 57 c)
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	Carcinogenic (article 57 a)
1,2-dichloroethane	203-458-1	107-06-2	Carcinogenic (article 57 a)

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Name	EC Number	CAS Number	Reason for inclusion
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	208-953-6	548-62-9	Carcinogenic (article 57 a)
α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	229-851-8	6786-83-0	Carcinogenic (Article 57a)
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	Carcinogenic (Article 57a)
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	Mutagenic (Article 57b)
Diboron trioxide	215-125-8	1303-86-2	Toxic for reproduction (Article 57 c)
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	Toxic for reproduction (Article 57 c)
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	209-218-2	561-41-1	Carcinogenic (Article 57a)
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	Toxic for reproduction (Article 57 c)
Formamide	200-842-0	75-12-7	Toxic for reproduction (Article 57 c)
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	219-943-6	2580-56-5	Carcinogenic (Article 57a)
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	Toxic for reproduction (Article 57 c)
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	Mutagenic (Article 57b)

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Name	EC Number	CAS Number	Reason for inclusion
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	Carcinogenic (Article 57a)
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	Toxic for reproduction (Article 57 c)
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	Carcinogenic (Article 57a)
Henicosafleuroundecanoic acid	218-165-4	2058-94-8	vPvB (Article 57 e)
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 trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]</i>	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)
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>	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)
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	Toxic for reproduction (Article 57 c)
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	Toxic for reproduction (Article 57 c)
Lead dinitrate	233-245-9	10099-74-8	Toxic for reproduction (Article 57 c)
Silicic acid, lead salt	234-363-3	11120-22-2	Toxic for reproduction (Article 57 c)
4-Aminoazobenzene	200-453-6	60-09-3	Carcinogenic (Article 57a)
Lead titanium zirconium oxide	235-727-4	12626-81-2	Toxic for reproduction (Article 57 c)
Lead monoxide (lead oxide)	215-267-0	1317-36-8	Toxic for reproduction (Article 57 c)



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Name	EC Number	CAS Number	Reason for inclusion
o-Toluidine	202-429-0	95-53-4	Carcinogenic (Article 57a)
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	Toxic for reproduction (Article 57 c)
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 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]</i>	272-271-5	68784-75-8	Toxic for reproduction (Article 57 c)
Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	Toxic for reproduction (Article 57 c)
Furan	203-727-3	110-00-9	Carcinogenic (Article 57a)
N,N-dimethylformamide	200-679-5	68-12-2	Toxic for reproduction (Article 57 c)
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 (Article 57 f)
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 (Article 57 f)
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	Carcinogenic (Article 57a)
Diethyl sulphate	200-589-6	64-67-5	Carcinogenic (Article 57a); Mutagenic (Article 57b)
Dimethyl sulphate	201-058-1	77-78-1	Carcinogenic (Article 57a)
Lead oxide sulfate	234-853-7	12036-76-9	Toxic for reproduction (Article 57 c)
Lead titanium trioxide	235-038-9	12060-00-3	Toxic for reproduction (Article 57 c)

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Name	EC Number	CAS Number	Reason for inclusion
Acetic acid, lead salt, basic	257-175-3	51404-69-4	Toxic for reproduction (Article 57 c)
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	Toxic for reproduction (Article 57 c)
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	PBT (Article 57 d); vPvB (Article 57 e)
N-methylacetamide	201-182-6	79-16-3	Toxic for reproduction (Article 57 c)
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	Toxic for reproduction (Article 57 c)
1,2-Diethoxyethane	211-076-1	629-14-1	Toxic for reproduction (Article 57 c)
Tetralead trioxide sulphate	235-380-9	12202-17-4	Toxic for reproduction (Article 57 c)
N-pentyl-isopentylphthalate	-	776297-69-9	Toxic for reproduction (Article 57 c)
Dioxobis(stearato)trilead	235-702-8	12578-12-0	Toxic for reproduction (Article 57 c)
Tetraethyllead	201-075-4	78-00-2	Toxic for reproduction (Article 57 c)
Pentalead tetraoxide sulphate	235-067-7	12065-90-6	Toxic for reproduction (Article 57 c)
Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	vPvB (Article 57 e)
Tricosafuorododecanoic acid	206-203-2	307-55-1	vPvB (Article 57 e)
Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	vPvB (Article 57 e)
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	Toxic for reproduction (Article 57 c)
Methoxyacetic acid	210-894-6	625-45-6	Toxic for reproduction (Article 57 c)
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	Carcinogenic (Article 57a)
Methyloxirane (Propylene oxide)	200-879-2	75-56-9	Carcinogenic (Article 57a); Mutagenic (Article 57b)

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Name	EC Number	CAS Number	Reason for inclusion
Trilead dioxide phosphonate	235-252-2	12141-20-7	Toxic for reproduction (Article 57 c)
o-aminoazotoluene	202-591-2	97-56-3	Carcinogenic (Article 57a)
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	Toxic for reproduction (Article 57 c)
4,4'-oxydianiline and its salts	202-977-0	101-80-4	Carcinogenic (Article 57a); Mutagenic (Article 57b)
Orange lead (lead tetroxide)	215-235-6	1314-41-6	Toxic for reproduction (Article 57 c)
Biphenyl-4-ylamine	202-177-1	92-67-1	Carcinogenic (Article 57a)
Diisopentylphthalate	210-088-4	605-50-5	Toxic for reproduction (Article 57 c)
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	Toxic for reproduction (Article 57 c)
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)
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	Toxic for reproduction (Article 57 c)
Lead cyanamidate	244-073-9	20837-86-9	Toxic for reproduction (Article 57 c)
Cadmium	231-152-8	7440-43-9	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
Dipentyl phthalate (DPP)	205-017-9	131-18-0	Toxic for reproduction (Article 57 c)

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List of candidate substances ("Candidate List") - January 15, 2019

Name	EC Number	CAS Number	Reason for inclusion
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 (Article 57 f)
Cadmium oxide	215-146-2	1306-19-0	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
Lead di(acetate)	206-104-4	301-04-2	Toxic for reproduction (Article 57 c)
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	Carcinogenic (Article 57a)
Trixylyl phosphate	246-677-8	25155-23-1	Toxic for reproduction (Article 57 c)
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7	Toxic for reproduction (Article 57 c)
Dihexyl phthalate	201-559-5	84-75-3	Toxic for reproduction (Article 57 c)
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)	217-710-3	1937-37-7	Carcinogenic (Article 57a)
Cadmium sulphide	215-147-8	1306-23-6	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	Toxic for reproduction (Article 57 c)
Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-	Toxic for reproduction (Article 57 c)

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Name	EC Number	CAS Number	Reason for inclusion
Sodium peroxometaborate	231-556-4	7632-04-4	Toxic for reproduction (Article 57 c)
Cadmium chloride	233-296-7	10108-64-2	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)
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	Equivalent level of concern having probable serious effects to the environment (Article 57 f); Toxic for reproduction (article 57c)
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)
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)
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)
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)

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Name	EC Number	CAS Number	Reason for inclusion
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)
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 (EC No. 201-559-5)	271-094-0 272-013-1	68515-51-5 68648-93-1	Toxic for reproduction (Article 57 c)
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)
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)
Nitrobenzene	202-716-0	98-95-3	Toxic for reproduction (Article 57 c)
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	vPvB (Article 57 e)
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	vPvB (Article 57 e)
1,3-propanesultone	214-317-9	1120-71-4	Carcinogenic (Article 57 a)
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 57 d) vPvB (Article 57 e)

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Name	EC Number	CAS Number	Reason for inclusion
4,4'-isopropylidenediphenol Bisphenol A; BPA	201-245-8	80-05-7	Toxic for reproduction (Article 57c)
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 57 f)
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts  Nonadecafluorodecanoic acid Ammonium nonadecafluorodecanoate Decanoic acid, nonadecafluoro-, sodium salt	206-400-3 221-470-5 /	335-76-2 3108-42-7 3830-45-3	Toxic for reproduction (Article 57c) PBT (Article 57 d)
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	Equivalent level of concern having probable serious effects to environment (Article 57 f)
Perfluorohexane-1-sulphonic acid and its salts PFHxS	/	/	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 (4-HPbl)	/	/	Endocrine disrupting properties (Article 57(f) - environment)
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) covering any of its individual anti- and syn-isomers or any combination thereof	/	/	vPvB (Article 57e)
Chrysene	205-923-4	218-01-9, 1719-03-5	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)

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Name	EC Number	CAS Number	Reason for inclusion
Cadmium nitrate	233-710-6	10022-68-1, 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)
Benz[a]anthracene	200-280-6	56-55-3, 1718- 53-2	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
Terphenyl, hydrogenated	262-967-7	61788-32-7	vPvB (Article 57e)
Octamethylcyclotetrasiloxane D4	209-136-7	556-67-2	PBT (Article 57d)#vPvB (Article 57e)
Lead	231-100-4	7439-92-1	Toxic for reproduction (Article 57c)
Ethylenediamine EDA	203-468-6	107-15-3	Respiratory sensitising properties (Article 57(f) - human health)
Dodecamethylcyclohexasiloxane D6	208-762-8	540-97-6	PBT (Article 57d)#vPvB (Article 57e)
Disodium octaborate	234-541-0	12008-41-2	Toxic for reproduction (Article 57c)



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Name	EC Number	CAS Number	Reason for inclusion
Dicyclohexyl phthalate DCHP	201-545-9	84-61-7	Toxic for reproduction (Article 57c)#Endocrine disrupting properties (Article 57(f) - human health)
Decamethylcyclopentasiloxane D5	208-764-9	541-02-6	PBT (Article 57d)#vPvB (Article 57e)
Benzo[ghi]perylene	205-883-8	191-24-2	PBT (Article 57d)#vPvB (Article 57e)
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)
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	PBT (Article 57d) vPvB (Article 57e)
Phenanthrene	201-581-5	85-01-8	vPvB (Article 57e)
Pyrene	204-927-3	129-00-0	PBT (Article 57d) vPvB (Article 57e)
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)