



948, Promenade de l'Arve – BP 29 - France - 74311 Thyez Cedex  
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**-Ref:** CM / MLa 17-009  
**From :** Martine LADIETTE  
**To :** To whom it may concern  
**Date :** January 24, 2017  
**Subject :** REACH Regulation

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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 :

A list of 173 substances has been published (SVHC: Substances of Very High Concern) on January 12, 2017 - See table page 2 to page 15: "Candidate List".

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

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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List of candidate substances ("Candidate List") - January 12, 2017

| 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:<br><br>Alpha-hexabromocyclododecane<br>Beta-hexabromocyclododecane<br>Gamma-hexabromocyclododecane | 247-148-4 and<br>221-695-9 | 25637-99-4<br>3194-55-6<br>(134237-50-6)<br>(134237-51-7)<br>(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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List of candidate substances ("Candidate List") - January 12, 2017

| Name   | EC Number | CAS Number | Reason for inclusion   |
|--|-----------|------------|--|
| Aluminosilicate Refractory Ceramic Fibres<br>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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List of candidate substances ("Candidate List") - January 12, 2017

| 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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|---|-----------|------------|---------------------------------------|
| [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)   |
| Henicosafuoroundecanoic 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<br>(H <sub>2</sub> SiO <sub>5</sub> ),<br>barium salt (1:1), lead-doped<br>[with lead<br>(Pb) content above the applicable generic<br>concentration limit for toxicity for<br>reproduction Repr. 1A (CLP) or category 1<br>(DSD); the substance is a member of the group<br>entry of lead compounds, with index number 082-<br>001-00-6 in Regulation (EC) No 1272/2008] | 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<br>[covering well-defined substances and UVCB<br>substances, polymers and homologues]   | -         | -           | Equivalent level of concern<br>having probable serious<br>effects to the environment<br>(Article 57 f) |
| 4-Nonylphenol, branched and linear<br>[substances with a linear and/or branched alkyl<br>chain with a carbon number of 9 covalently bound<br>in position 4 to phenol, covering also UVCB- and<br>well-defined substances which include any of the<br>individual isomers or a combination thereof]   | -         | -           | Equivalent level of concern<br>having probable serious<br>effects to the environment<br>(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);<br>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 12, 2017

| 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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List of candidate substances ("Candidate List") - January 12, 2017

| 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);<br>Mutagenic (Article 57b);<br>Toxic for reproduction (Article 57c);<br>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);<br>Mutagenic (Article 57 b);<br>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<br>31119-53-6            | Carcinogenic (Article 57 a);<br>Mutagenic (Article 57 b);<br>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<br>272-013-1 | 68515-51-5<br>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<br>21049-39-8<br>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)<br>Mutagenic (Article 57b)<br>Toxic for reproduction (Article 57c)<br>PBT (Article 57 d)<br>vPvB (Article 57 e)   |



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| Name  | EC Number                   | CAS Number                         | Reason for inclusion  |
|---|-----------------------------|------------------------------------|---|
| 4,4'-isopropylidenediphenol<br>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<br><br>Nonadecafluorodecanoic acid<br>Ammonium nonadecafluorodecanoate<br>Decanoic acid, nonadecafluoro-, sodium salt  | 206-400-3<br>221-470-5<br>/ | 335-76-2<br>3108-42-7<br>3830-45-3 | Toxic for reproduction (Article 57c)<br>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) |