

# REACH

Regulation (EC) No 1907/2006 of 18 December 2006

## Statement on Substances of Very High Concern ("SVHC")

We hereby certify that the part numbers that are manufactured by Amphenol FCI (AFCI) as of the date hereof **do not contain** substances of very high concern ("SVHC") listed in the Candidate List as updated on **20 June 2016** by the European Chemicals Agency and attached hereto.



Date: June 21, 2016

**Ravikumar R S**

**Global Coordinator – Environmental Compliance Engineering**

on behalf of Amphenol FCI Asia Pte Ltd  
acting in the name and on behalf of its affiliated companies

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# REACH

Regulation (EC) No 1907/2006 of 18 December 2006

## Candidate List

### of Substances of Very High Concern ("SVHC") - As updated on 20 June 2016

| Substance name                                                                                             | EC number               | CAS number                                                               | Basis for identification as an SVHC<br>The article numbers refer to the REACH regulation                                               |
|------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1 Anthracene                                                                                               | 204-371-1               | 120-12-7                                                                 | PBT (article 57d)                                                                                                                      |
| 2 4,4'- Diaminodiphenylmethane (MDA)                                                                       | 202-974-4               | 101-77-9                                                                 | Carcinogenic (article 57a)                                                                                                             |
| 3 Dibutyl phthalate (DBP)                                                                                  | 201-557-4               | 84-74-2                                                                  | Toxic for reproduction (article 57c)                                                                                                   |
| 4 Cobalt dichloride                                                                                        | 231-589-4               | 7646-79-9                                                                | Toxic for reproduction (article 57c)                                                                                                   |
| 5 Diarsenic pentaoxide                                                                                     | 215-116-9               | 1303-28-2                                                                | Carcinogenic (article 57a)                                                                                                             |
| 6 Diarsenic trioxide                                                                                       | 215-481-4               | 1327-53-3                                                                | Carcinogenic (article 57a)                                                                                                             |
| 7 Sodium dichromate                                                                                        | 234-190-3               | 7789-12-0,<br>10588-01-9                                                 | Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)                                                         |
| 8 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)                                                       | 201-329-4               | 81-15-2                                                                  | vPvB (article 57e)                                                                                                                     |
| 9 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);<br>Toxic for reproduction (article 57c) |
| 10 Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: (α - HBCDD, β-HBCDD, γ-HBCDD) | 247-148-4,<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)                                                                                                                      |
| 11 Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)                                             | 287-476-5               | 85535-84-8                                                               | PBT and vPvB (articles 57 d and 57 e)                                                                                                  |
| 12 Bis(tributyltin)oxide (TBTO)                                                                            | 200-268-0               | 56-35-9                                                                  | PBT (article 57d)                                                                                                                      |
| 13 Lead hydrogen arsenate                                                                                  | 232-064-2               | 7784-40-9                                                                | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                                                                       |
| 14 Benzyl butyl phthalate (BBP)                                                                            | 201-622-7               | 85-68-7                                                                  | Toxic for reproduction (article 57c)                                                                                                   |
| 15 Triethyl arsenate                                                                                       | 427-700-2               | 15606-95-8                                                               | Carcinogenic (article 57a)                                                                                                             |
| 16 Anthracene oil                                                                                          | 292-602-7               | 90640-80-5                                                               | Carcinogenic[1], PBT and vPvB (articles 57a, 57d and 57e)                                                                              |
| 17 Anthracene oil, anthracene paste, distn. Lights                                                         | 295-278-5               | 91995-17-4                                                               | Carcinogenic[2], mutagenic[3], PBT and vPvB (articles 57a, 57b, 57d and 57e)                                                           |
| 18 Anthracene oil, anthracene paste, anthracene fraction                                                   | 295-275-9               | 91995-15-2                                                               | Carcinogenic[2], mutagenic[3], PBT and vPvB (articles 57a, 57b, 57d and 57e)                                                           |
| 19 Anthracene oil, anthracene-low                                                                          | 292-604-8               | 90640-82-7                                                               | Carcinogenic[2], mutagenic[3], PBT and vPvB (articles 57a, 57b, 57d and 57e)                                                           |
| 20 Anthracene oil, anthracene paste                                                                        | 292-603-2               | 90640-81-6                                                               | Carcinogenic[2], mutagenic[3], PBT and vPvB (articles 57a, 57b, 57d and 57e)                                                           |
| 21 Pitch, coal tar, high temp.                                                                             | 266-028-2               | 65996-93-2                                                               | Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)                                                                                 |
| 22 2,4-Dinitrotoluene                                                                                      | 204-450-0               | 121-14-2                                                                 | Carcinogenic (article 57a)                                                                                                             |
| 23 Diisobutyl phthalate (DIBP)                                                                             | 201-553-2               | 84-69-5                                                                  | Toxic for reproduction (article 57c)                                                                                                   |
| 24 Lead chromate                                                                                           | 231-846-0               | 7758-97-6                                                                | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                                                                       |
| 25 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)                                                                       |
| 26 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)                                                                       |
| 27 tris(2-chloroethyl)phosphate                                                                            | 204-118-5               | 115-96-8                                                                 | Toxic for reproduction (article 57c)                                                                                                   |
| 28 Acrylamide                                                                                              | 201-173-7               | 79-06-1                                                                  | Carcinogenic and mutagenic (articles 57 a and 57 c)                                                                                    |
| 29 Trichloroethylene                                                                                       | 201-167-4               | 79-01-6                                                                  | Carcinogenic (article 57 a)                                                                                                            |
| 30 Boric acid                                                                                              | 233-139-2,<br>234-343-4 | 10043-35-3,<br>11113-50-1                                                | Toxic for reproduction (article 57 c)                                                                                                  |
| 31 Disodium tetraborate, anhydrous                                                                         | 215-540-4               | 1303-96-4,<br>1330-43-4,<br>12179-04-3                                   | Toxic for reproduction (article 57 c)                                                                                                  |
| 32 Tetraboron disodium heptaoxide, hydrate                                                                 | 235-541-3               | 12267-73-1                                                               | Toxic for reproduction (article 57 c)                                                                                                  |
| 33 Sodium chromate                                                                                         | 231-889-5               | 7775-11-3                                                                | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)                                                      |
| 34 Potassium chromate                                                                                      | 232-140-5               | 7789-00-6                                                                | Carcinogenic and mutagenic (articles 57 a and 57 c)                                                                                    |
| 35 Ammonium dichromate                                                                                     | 232-143-1               | 7789-09-5                                                                | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)                                                      |
| 36 Potassium dichromate                                                                                    | 231-906-6               | 7778-50-9                                                                | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)                                                      |
| 37 Cobalt(II) sulphate                                                                                     | 233-334-2               | 10124-43-3                                                               | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                                                                       |
| 38 Cobalt(II) dinitrate                                                                                    | 233-402-1               | 10141-05-6                                                               | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                                                                       |
| 39 Cobalt (II) carbonate                                                                                   | 208-169-4               | 513-79-1                                                                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                                                                       |
| 40 Cobalt(II) diacetate                                                                                    | 200-755-8               | 71-48-7                                                                  | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                                                                       |
| 41 2-Methoxyethanol                                                                                        | 203-713-7               | 109-86-4                                                                 | Toxic for reproduction (article 57c)                                                                                                   |
| 42 2-Ethoxyethanol                                                                                         | 203-804-1               | 110-80-5                                                                 | Toxic for reproduction (article 57c)                                                                                                   |
| 43 Chromium trioxide                                                                                       | 215-607-8               | 1333-82-0                                                                | Carcinogenic and mutagenic (articles 57 a and 57 c)                                                                                    |
| Acids generated from chromium trioxide and their oligomers                                                 | 231-801-5               | 7738-94-5                                                                | Carcinogenic (article 57a)                                                                                                             |
| 44 Group containing: Chromic acid                                                                          | 236-881-5               | 13530-68-2                                                               |                                                                                                                                        |
| Dichromic acid                                                                                             | not yet assigned        | not yet assigned                                                         |                                                                                                                                        |
| Oligomers of chromic acid and dichromic acid                                                               |                         |                                                                          |                                                                                                                                        |

| Substance name                                                                                                                                                                                                                                                                                                                                                                       | EC number | CAS number            | Basis for identification as an SVHC<br>The article numbers refer to the REACH regulation      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|-----------------------------------------------------------------------------------------------|
| 45 2-ethoxyethyl acetate                                                                                                                                                                                                                                                                                                                                                             | 203-839-2 | 111-15-9              | Toxic for reproduction (article 57 c)                                                         |
| 46 Strontium chromate                                                                                                                                                                                                                                                                                                                                                                | 232-142-6 | 7789-06-2             | Carcinogenic (article 57 a)                                                                   |
| 47 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)                                                                                                                                                                                                                                                                                                   | 271-084-6 | 68515-42-4            | Toxic for reproduction (article 57 c)                                                         |
| 48 Hydrazine                                                                                                                                                                                                                                                                                                                                                                         | 206-114-9 | 302-01-2<br>7803-57-8 | Carcinogenic (article 57 a)                                                                   |
| 49 1-methyl-2-pyrrolidone                                                                                                                                                                                                                                                                                                                                                            | 212-828-1 | 872-50-4              | Toxic for reproduction (article 57 c)                                                         |
| 50 1,2,3-trichloropropane                                                                                                                                                                                                                                                                                                                                                            | 202-486-1 | 96-18-4               | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                              |
| 51 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)                                                                                                                                                                                                                                                                                                       | 276-158-1 | 71888-89-6            | Toxic for reproduction (article 57 c)                                                         |
| 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                   |           |                       |                                                                                               |
| 52 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 57 a)                                                                   |
| 53 Calcium arsenate                                                                                                                                                                                                                                                                                                                                                                  | 231-904-5 | 7778-44-1             | Carcinogenic (article 57 a)                                                                   |
| 54 Bis(2-methoxyethyl) ether                                                                                                                                                                                                                                                                                                                                                         | 203-924-4 | 111-96-6              | Toxic for reproduction (article 57 c)                                                         |
| 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                            |           |                       |                                                                                               |
| 55 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)                                                                   |
| 56 Potassium hydroxyoctaoxidizincatedichromate                                                                                                                                                                                                                                                                                                                                       | 234-329-8 | 11103-86-9            | Carcinogenic (article 57 a)                                                                   |
| 57 Lead dipicrate                                                                                                                                                                                                                                                                                                                                                                    | 229-335-2 | 6477-64-1             | Toxic for reproduction (article 57 c)                                                         |
| 58 N,N-dimethylacetamide                                                                                                                                                                                                                                                                                                                                                             | 204-826-4 | 127-19-5              | Toxic for reproduction (article 57 c)                                                         |
| 59 Arsenic acid                                                                                                                                                                                                                                                                                                                                                                      | 231-901-9 | 7778-39-4             | Carcinogenic (article 57 a)                                                                   |
| 60 2-Methoxyaniline; o-Anisidine                                                                                                                                                                                                                                                                                                                                                     | 201-963-1 | 90-04-0               | Carcinogenic (article 57 a)                                                                   |
| 61 Trilead diarsenate                                                                                                                                                                                                                                                                                                                                                                | 222-979-5 | 3687-31-8             | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                              |
| 62 1,2-dichloroethane                                                                                                                                                                                                                                                                                                                                                                | 203-458-1 | 107-06-2              | Carcinogenic (article 57 a)                                                                   |
| 63 Pentazinc chromate octahydroxide                                                                                                                                                                                                                                                                                                                                                  | 256-418-0 | 49663-84-5            | Carcinogenic (article 57 a)                                                                   |
| 64 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) |
| 65 Formaldehyde, oligomeric reaction products with aniline                                                                                                                                                                                                                                                                                                                           | 500-036-1 | 25214-70-4            | Carcinogenic (article 57 a)                                                                   |
| 66 Bis(2-methoxyethyl) phthalate                                                                                                                                                                                                                                                                                                                                                     | 204-212-6 | 117-82-8              | Toxic for reproduction (article 57 c)                                                         |
| 67 Lead diazide, Lead azide                                                                                                                                                                                                                                                                                                                                                          | 236-542-1 | 13424-46-9            | Toxic for reproduction (article 57 c)                                                         |
| 68 Lead styphnate                                                                                                                                                                                                                                                                                                                                                                    | 239-290-0 | 15245-44-0            | Toxic for reproduction (article 57 c)                                                         |
| 69 2,2'-dichloro-4,4'-methylenedianiline                                                                                                                                                                                                                                                                                                                                             | 202-918-9 | 101-14-4              | Carcinogenic (article 57 a)                                                                   |
| 70 Phenolphthalein                                                                                                                                                                                                                                                                                                                                                                   | 201-004-7 | 77-09-8               | Carcinogenic (article 57 a)                                                                   |
| 71 Dichromium tris(chromate)                                                                                                                                                                                                                                                                                                                                                         | 246-356-2 | 24613-89-6            | Carcinogenic (article 57 a)                                                                   |
| 72 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)                                                                                                                                                                                                                                                                                                                                 | 203-977-3 | 112-49-2              | Toxic for reproduction (Article 57 c)                                                         |
| 73 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                                                                                                                                                                                                                                                                                                                       | 203-794-9 | 110-71-4              | Toxic for reproduction (Article 57 c)                                                         |
| 74 Diboron trioxide                                                                                                                                                                                                                                                                                                                                                                  | 215-125-8 | 1303-86-2             | Toxic for reproduction (Article 57 c)                                                         |
| 75 Formamide                                                                                                                                                                                                                                                                                                                                                                         | 200-842-0 | 75-12-7               | Toxic for reproduction (Article 57 c)                                                         |
| 76 Lead(II) bis(methanesulfonate)                                                                                                                                                                                                                                                                                                                                                    | 401-750-5 | 17570-76-2            | Toxic for reproduction (Article 57 c)                                                         |
| 77 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (TGIC)                                                                                                                                                                                                                                                                                                          | 219-514-3 | 2451-62-9             | Mutagenic (Article 57 b)                                                                      |
| 78 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 57 b)                                                                      |
| 79 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)                                                                                                                                                                                                                                                                                                                            | 202-027-5 | 90-94-8               | Carcinogenic (Article 57 a)                                                                   |
| 80 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)                                                                                                                                                                                                                                                                                                                    | 202-959-2 | 101-61-1              | Carcinogenic (Article 57 a)                                                                   |
| [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)]                                                                                                                                                  |           |                       |                                                                                               |
| 81                                                                                                                                                                                                                                                                                                                                                                                   | 219-943-6 | 2580-56-5             | Carcinogenic (Article 57 a)                                                                   |

| Substance name                                                                                                                                                                                                                                                                   | EC number                                           | CAS number                                              | Basis for identification as an SVHC<br>The article numbers refer to the REACH regulation      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 82 [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)                                                                   |
| 83 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 57 a)                                                                   |
| 84 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 57 a)                                                                   |
| 85 Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)                                                                                                                                                                                                                | 214-604-9                                           | 1163-19-5                                               | PBT (Article 57 d); vPvB (Article 57 e)                                                       |
| 86 Pentacosafuorotridecanoic acid                                                                                                                                                                                                                                                | 276-745-2                                           | 72629-94-8                                              | vPvB (Article 57 e)                                                                           |
| 87 Tricosafuorododecanoic acid                                                                                                                                                                                                                                                   | 206-203-2                                           | 307-55-1                                                | vPvB (Article 57 e)                                                                           |
| 88 Henicosafuoroundecanoic acid                                                                                                                                                                                                                                                  | 218-165-4                                           | 2058-94-8                                               | vPvB (Article 57 e)                                                                           |
| 89 Heptacosafuorotetradecanoic acid                                                                                                                                                                                                                                              | 206-803-4                                           | 376-06-7                                                | vPvB (Article 57 e)                                                                           |
| 90 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)    |
| Cyclohexane-1,2-dicarboxylic anhydride [1]                                                                                                                                                                                                                                       |                                                     |                                                         |                                                                                               |
| cis-cyclohexane-1,2-dicarboxylic anhydride [2]                                                                                                                                                                                                                                   |                                                     |                                                         |                                                                                               |
| 91 trans-cyclohexane-1,2-dicarboxylic anhydride [3]<br>[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,<br>236-086-3,<br>238-009-9               | 85-42-7,<br>13149-00-3,<br>14166-21-3                   | Equivalent level of concern having probable serious effects to human health (Article 57 f)    |
| Hexahydromethylphthalic anhydride [1],                                                                                                                                                                                                                                           |                                                     |                                                         |                                                                                               |
| Hexahydro-4-methylphthalic anhydride [2],                                                                                                                                                                                                                                        |                                                     |                                                         |                                                                                               |
| 92 Hexahydro-1-methylphthalic anhydride [3],<br>Hexahydro-3-methylphthalic anhydride [4]<br>[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,<br>243-072-0,<br>256-356-4,<br>260-566-1 | 25550-51-0,<br>19438-60-9,<br>48122-14-1,<br>57110-29-9 | Equivalent level of concern having probable serious effects to human health (Article 57 f)    |
| 4-Nonylphenol, branched and linear                                                                                                                                                                                                                                               |                                                     |                                                         |                                                                                               |
| 93 [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) |
| 94 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated<br>[covering well-defined substances and UVCB substances, polymers and homologues]                                                                                                                                            | -                                                   | -                                                       | Equivalent level of concern having probable serious effects to the environment (Article 57 f) |
| 95 Methoxyacetic acid                                                                                                                                                                                                                                                            | 210-894-6                                           | 625-45-6                                                | Toxic for reproduction (Article 57 c)                                                         |
| 96 N,N-dimethylformamide                                                                                                                                                                                                                                                         | 200-679-5                                           | 68-12-2                                                 | Toxic for reproduction (Article 57 c)                                                         |
| 97 Dibutyltin dichloride (DBTC)                                                                                                                                                                                                                                                  | 211-670-0                                           | 683-18-1                                                | Toxic for reproduction (Article 57 c)                                                         |
| 98 Lead monoxide (Lead oxide)                                                                                                                                                                                                                                                    | 215-267-0                                           | 1317-36-8                                               | Toxic for reproduction (Article 57 c)                                                         |
| 99 Orange lead (Lead tetroxide)                                                                                                                                                                                                                                                  | 215-235-6                                           | 1314-41-6                                               | Toxic for reproduction (Article 57 c)                                                         |
| 100 Lead bis(tetrafluoroborate)                                                                                                                                                                                                                                                  | 237-486-0                                           | 13814-96-5                                              | Toxic for reproduction (Article 57 c)                                                         |
| 101 Trilead bis(carbonate)dihydroxide                                                                                                                                                                                                                                            | 215-290-6                                           | 1319-46-6                                               | Toxic for reproduction (Article 57 c)                                                         |
| 102 Lead titanium trioxide                                                                                                                                                                                                                                                       | 235-038-9                                           | 12060-00-3                                              | Toxic for reproduction (Article 57 c)                                                         |
| 103 Lead titanium zirconium oxide                                                                                                                                                                                                                                                | 235-727-4                                           | 12626-81-2                                              | Toxic for reproduction (Article 57 c)                                                         |
| 104 Silicic acid, lead salt<br>Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped                                                                                                                                                                    | 234-363-3                                           | 11120-22-2                                              | Toxic for reproduction (Article 57 c)                                                         |
| 105 [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)                                                         |
| 106 1-bromopropane (n-propyl bromide)                                                                                                                                                                                                                                            | 203-445-0                                           | 106-94-5                                                | Toxic for reproduction (Article 57 c)                                                         |
| 107 Methyloxirane (Propylene oxide)                                                                                                                                                                                                                                              | 200-879-2                                           | 75-56-9                                                 | Carcinogenic (Article 57a); Mutagenic (Article 57b)                                           |
| 108 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear                                                                                                                                                                                                             | 284-032-2                                           | 84777-06-0                                              | Toxic for reproduction (Article 57 c)                                                         |
| 109 Diisopentylphthalate (DIPP)                                                                                                                                                                                                                                                  | 210-088-4                                           | 605-50-5                                                | Toxic for reproduction (Article 57 c)                                                         |
| 110 N-pentyl-isopentylphthalate                                                                                                                                                                                                                                                  | -                                                   | 776297-69-9                                             | Toxic for reproduction (Article 57 c)                                                         |
| 111 1,2-diethoxyethane                                                                                                                                                                                                                                                           | 211-076-1                                           | 629-14-1                                                | Toxic for reproduction (Article 57 c)                                                         |
| 112 Acetic acid, lead salt, basic                                                                                                                                                                                                                                                | 257-175-3                                           | 51404-69-4                                              | Toxic for reproduction (Article 57 c)                                                         |
| 113 Lead oxide sulfate                                                                                                                                                                                                                                                           | 234-853-7                                           | 12036-76-9                                              | Toxic for reproduction (Article 57 c)                                                         |

| Substance name                                                                                                                                                                                                                                                                                                                          | EC number               | CAS number  | Basis for identification as an SVHC<br>The article numbers refer to the REACH regulation                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 114 [Phthalato(2-)]dioxotrilead                                                                                                                                                                                                                                                                                                         | 273-688-5               | 69011-06-9  | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 115 Dioxobis(stearato)trilead                                                                                                                                                                                                                                                                                                           | 235-702-8               | 12578-12-0  | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 116 Fatty acids, C16-18, lead salts                                                                                                                                                                                                                                                                                                     | 292-966-7               | 91031-62-8  | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 117 Lead cyanamide                                                                                                                                                                                                                                                                                                                      | 244-073-9               | 20837-86-9  | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 118 Lead dinitrate                                                                                                                                                                                                                                                                                                                      | 233-245-9               | 10099-74-8  | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 119 Pentalead tetraoxide sulphate                                                                                                                                                                                                                                                                                                       | 235-067-7               | 12065-90-6  | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 120 Pyrochlore, antimony lead yellow                                                                                                                                                                                                                                                                                                    | 232-382-1               | 8012-00-8   | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 121 Sulfurous acid, lead salt, dibasic                                                                                                                                                                                                                                                                                                  | 263-467-1               | 62229-08-7  | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 122 Tetraethyllead                                                                                                                                                                                                                                                                                                                      | 201-075-4               | 78-00-2     | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 123 Tetralead trioxide sulphate                                                                                                                                                                                                                                                                                                         | 235-380-9               | 12202-17-4  | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 124 Trilead dioxide phosphonate                                                                                                                                                                                                                                                                                                         | 235-252-2               | 12141-20-7  | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 125 Furan                                                                                                                                                                                                                                                                                                                               | 203-727-3               | 110-00-9    | Carcinogenic (Article 57a)                                                                                                                                                               |
| 126 Diethyl sulphate                                                                                                                                                                                                                                                                                                                    | 200-589-6               | 64-67-5     | Carcinogenic (Article 57a); Mutagenic (Article 57b)                                                                                                                                      |
| 127 Dimethyl sulphate                                                                                                                                                                                                                                                                                                                   | 201-058-1               | 77-78-1     | Carcinogenic (Article 57a)                                                                                                                                                               |
| 128 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine                                                                                                                                                                                                                                                                                  | 421-150-7               | 143860-04-2 | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 129 Dinoseb (6-sec-butyl-2,4-dinitrophenol)                                                                                                                                                                                                                                                                                             | 201-861-7               | 88-85-7     | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 130 4,4'-methylenedi-o-toluidine                                                                                                                                                                                                                                                                                                        | 212-658-8               | 838-88-0    | Carcinogenic (Article 57a)                                                                                                                                                               |
| 131 4,4'-oxydianiline and its salts                                                                                                                                                                                                                                                                                                     | 202-977-0               | 101-80-4    | Carcinogenic (Article 57a); Mutagenic (Article 57b)                                                                                                                                      |
| 132 4-aminoazobenzene                                                                                                                                                                                                                                                                                                                   | 200-453-6               | 60-09-3     | Carcinogenic (Article 57a)                                                                                                                                                               |
| 133 4-methyl-m-phenylenediamine (toluene-2,4-diamine)                                                                                                                                                                                                                                                                                   | 202-453-1               | 95-80-7     | Carcinogenic (Article 57a)                                                                                                                                                               |
| 134 6-methoxy-m-toluidine (p-cresidine)                                                                                                                                                                                                                                                                                                 | 204-419-1               | 120-71-8    | Carcinogenic (Article 57a)                                                                                                                                                               |
| 135 Biphenyl-4-ylamine                                                                                                                                                                                                                                                                                                                  | 202-177-1               | 92-67-1     | Carcinogenic (Article 57a)                                                                                                                                                               |
| 136 o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]                                                                                                                                                                                                                                                                                      | 202-591-2               | 97-56-3     | Carcinogenic (Article 57a)                                                                                                                                                               |
| 137 o-toluidine                                                                                                                                                                                                                                                                                                                         | 202-429-0               | 95-53-4     | Carcinogenic (Article 57a)                                                                                                                                                               |
| 138 N-methylacetamide                                                                                                                                                                                                                                                                                                                   | 201-182-6               | 79-16-3     | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 139 Cadmium                                                                                                                                                                                                                                                                                                                             | 231-152-8               | 7440-43-9   | Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)                                                                   |
| 140 Ammonium pentadecafluorooctanoate (APFO)                                                                                                                                                                                                                                                                                            | 223-320-4               | 3825-26-1   | Toxic for reproduction (Article 57 c); PBT (Article 57 d)                                                                                                                                |
| 141 Pentadecafluorooctanoic acid (PFOA)                                                                                                                                                                                                                                                                                                 | 206-397-9               | 335-67-1    | Toxic for reproduction (Article 57 c); PBT (Article 57 d)                                                                                                                                |
| 142 Dipentyl phthalate (DPP)                                                                                                                                                                                                                                                                                                            | 205-017-9               | 131-18-0    | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 143 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)                                                                                            |
| 144 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)                                                                   |
| 145 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)                                                                   |
| 146 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)                                                                                                                                                               |
| 147 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                                                                                                                                                                                         | 217-710-3               | 1937-37-7   | Carcinogenic (Article 57a)                                                                                                                                                               |
| 148 Dihexyl phthalate                                                                                                                                                                                                                                                                                                                   | 201-559-5               | 84-75-3     | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 149 Imidazolidine-2-thione (2-imidazoline-2-thiol)                                                                                                                                                                                                                                                                                      | 202-506-9               | 96-45-7     | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 150 Lead di(acetate)                                                                                                                                                                                                                                                                                                                    | 206-104-4               | 301-04-2    | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 151 Triethyl phosphate                                                                                                                                                                                                                                                                                                                  | 246-677-8               | 25155-23-1  | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 152 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)    |
| 153 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear                                                                                                                                                                                                                                                                    | 271-093-5               | 68515-50-4  | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 154 Sodium peroxometaborate                                                                                                                                                                                                                                                                                                             | 231-556-4               | 7632-04-4   | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 155 Sodium perborate; perboric acid, sodium salt                                                                                                                                                                                                                                                                                        | 239-172-9;<br>234-390-0 | -           | Toxic for reproduction (Article 57 c)                                                                                                                                                    |
| 156 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)                                                                                                                                                  |
| 157 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)                                                                                                                                                    |
| 158 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)                                                                                                                                                    |
| 159 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)                                                                                                                                                                                                                                                                            | 247-384-8               | 25973-55-1  | PBT (Article 57 d); vPvB (Article 57 e)                                                                                                                                                  |
| 160 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) |

| Substance name                                                                                                                                                                                                                               | EC number              | CAS number                          | Basis for identification as an SVHC<br>The article numbers refer to the REACH regulation                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 161 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);<br>Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 162 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ 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)                                                                                                                                                             |
| 163 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-secbutyl-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 57 e)                                                                                                                                                                               |
| 164 1,3-propanesultone                                                                                                                                                                                                                       | 214-317-9              | 1120-71-4                           | Carcinogenic (Article 57 a)                                                                                                                                                                       |
| 165 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)                                                                                                                                                                           | 223-383-8              | 3864-99-1                           | vPvB (Article 57 e)                                                                                                                                                                               |
| 166 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)                                                                                                                                                                     | 253-037-1              | 36437-37-3                          | vPvB (Article 57 e)                                                                                                                                                                               |
| 167 Nitrobenzene                                                                                                                                                                                                                             | 202-716-0              | 98-95-3                             | Toxic for reproduction (Article 57 c)                                                                                                                                                             |
| 168 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)                                                                                                                                          |
| 169 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 57d)<br>vPvB (Article 57e)                                                          |

[1] The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5)

[2] The substance does not meet the criteria for identification as a carcinogen in situations where it contains less than 0.005 % (w/w) benzo[a]pyrene (EINECS No 200-028-5) and less than 0,1 % w/w benzene (EINECS No 200-753-7).

[3] The substance does not meet the criteria for identification as a mutagen in situations where it contains less than 0,1 % w/w benzene (EINECS No 200-753-7).