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|  | Qorvo Statement of Compliance to EU REACH Requirements | Page 1 of 25 |
|   | SPE-001291   | Rev K        |

## 1 Purpose & Scope

The purpose of this document is to communicate Qorvo's compliance to the EU REACH Regulation (2006/1907/EC) to interested parties.

## 2 References

| Reference    | Title  | Location  |
|--------------|--|---|
| 2006/1907/EC | REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) | <a href="https://echa.europa.eu/regulations/reach/legislation">https://echa.europa.eu/regulations/reach/legislation</a> |

## 3 REACH Statement of Compliance

Qorvo Inc. (Qorvo) closely follows the implementation of the European Union regulation on the Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH). After appropriate due diligence, Qorvo has concluded that it is an article manufacturer with some operations in the European Union. Qorvo also imports articles into the European Union for sale and distribution.

With regard to Article 7(1) of the REACH regulation (registration requirements), Qorvo does not manufacture any articles where a substance is intended to be released under normal or reasonably foreseeable conditions of use. Therefore, Qorvo does not need to register any substances with the European Chemicals Agency (ECHA) under Article 7(1).

With regard to Article 7(2) of the REACH regulation (notification requirements), Qorvo reports the presence of any Substances of Very High Concern (SVHCs) listed in the Candidate List (see Section 4 below) above a concentration of 0.1% in the full material declarations and certificates of compliance provided to customers. These declarations are completed on a part-by-part basis.

In order to help its customers meet their obligations under the REACH regulation, Qorvo is able to provide full material declarations, using the IPC 1752A format. Customers should request material declarations and certificates of compliance by emailing [QorvoGreen@qorvo.com](mailto:QorvoGreen@qorvo.com).

#### 4 List of REACH SVHCs

| # | Substance Name   | CAS No.    | EC No.    | Reason for Inclusion  | Date of Inclusion          |
|---|--|------------|-----------|---|----------------------------|
| 1 | 4,4'- Diaminodiphenylmethane (MDA)   | 101-77-9   | 202-974-4 | Carc. 1B<br>Muta. 2   | 28-Oct-2008                |
| 2 | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)   | 81-15-2    | 201-329-4 | vPvB  | 28-Oct-2008                |
| 3 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) with the molecular formula:<br><br>C <sub>x</sub> H <sub>(2x-y+2)</sub> Cl <sub>y</sub> , where x = 10-13 and y = 1-13<br><br>Qorvo also assumes that this category includes all SCCPs listed in the USEPA Toxic Release Inventory - <a href="#">List of Toxic Chemicals within the Polychlorinated Alkanes Category and Guidance for Reporting, EPA 745-B-99-023, June 1999</a> . (There are 93 SCCPs listed in this document.) | 85535-84-8 | 287-476-5 | PBT<br>vPvB   | 28-Oct-2008                |
| 4 | Anthracene   | 120-12-7   | 204-371-1 | PBT   | 28-Oct-2008                |
| 5 | Benzyl butyl phthalate (BBP)   | 85-68-7    | 201-622-7 | Rep. Tox. 1B<br>Equivalent level of concern having probable serious effects to the environment [Endocrine Disruptors] | 28-Oct-2008<br>11-Jul-2017 |



| #  | Substance Name   | CAS No.   | EC No.                 | Reason for Inclusion  | Date of Inclusion                         |
|----|--|---|------------------------|---|---|
| 6  | Bis (2-ethylhexyl)phthalate (DEHP)   | 117-81-7  | 204-211-0              | Rep. Tox. 1B<br>Equivalent level of concern having probable serious effects to the environment [Endocrine Disruptors] | 28-Oct-2008<br>17-Dec-2014<br>11-Jul-2017 |
| 7  | Bis(tributyltin)oxide (TBTO)   | 56-35-9   | 200-268-0              | PBT   | 28-Oct-2008                               |
| 8  | Diarsenic pentaoxide   | 1303-28-2   | 215-116-9              | Carc. 1A  | 28-Oct-2008                               |
| 9  | Diarsenic trioxide   | 1327-53-3   | 215-481-4              | Carc. 1A  | 28-Oct-2008                               |
| 10 | Dibutyl phthalate (DBP)  | 84-74-2   | 201-557-4              | Rep. Tox. 1B<br>Equivalent level of concern having probable serious effects to the environment [Endocrine Disruptors] | 28-Oct-2008<br>11-Jul-2017                |
| 11 | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:<br>Alpha-hexabromocyclododecane<br>Beta-hexabromocyclododecane<br>Gamma-hexabromocyclododecane | 25637-99-4<br>134237-50-6<br>134237-51-7<br>134237-52-8 | 247-148-4<br>221-695-9 | PBT   | 28-Oct-2008                               |
| 12 | Lead hydrogen arsenate   | 7784-40-9   | 232-064-2              | Carc. 1A<br>Rep. Tox. 1A  | 28-Oct-2008                               |
| 13 | Sodium dichromate  | 7789-12-0<br>10588-01-9                                 | 234-190-3              | Carc. 1B<br>Muta. 1B<br>Rep. Tox. 1B  | 28-Oct-2008                               |
| 14 | Triethyl arsenate  | 15606-95-8  | 427-700-2              | Carc. 1A  | 28-Oct-2008                               |
| 15 | 2,4-Dinitrotoluene   | 121-14-2  | 204-450-0              | Carc. 1B  | 13-Jan-2010                               |

| #  | Substance Name  | CAS No.    | EC No.    | Reason for Inclusion  | Date of Inclusion          |
|----|---|------------|-----------|---|----------------------------|
| 16 | Anthracene oil  | 90640-80-5 | 292-602-7 | Carc. 1B<br>PBT<br>vPvB   | 13-Jan-2010                |
| 17 | Anthracene oil, anthracene paste                            | 90640-81-6 | 292-603-2 | Carc. 1B<br>PBT<br>vPvB   | 13-Jan-2010                |
| 18 | Anthracene oil, anthracene paste, anthracene fraction       | 91995-15-2 | 295-275-9 | Carc. 1B<br>PBT<br>vPvB   | 13-Jan-2010                |
| 19 | Anthracene oil, anthracene paste, distn. lights             | 91995-17-4 | 295-278-5 | Carc. 1B<br>PBT<br>vPvB   | 13-Jan-2010                |
| 20 | Anthracene oil, anthracene-low                              | 90640-82-7 | 292-604-8 | Carc. 1B<br>PBT<br>vPvB   | 13-Jan-2010                |
| 21 | Diisobutyl phthalate  | 84-69-5    | 201-553-2 | Rep. Tox. 1B<br>Equivalent level of concern having probable serious effects to the environment [Endocrine Disruptors] | 13-Jan-2010<br>11-Jul-2017 |
| 22 | Lead chromate   | 7758-97-6  | 231-846-0 | Carc. 1B<br>Rep. Tox. 1A  | 13-Jan-2010                |
| 23 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) | 12656-85-8 | 235-759-9 | Carc. 1B<br>Rep. Tox. 1A  | 13-Jan-2010                |
| 24 | Lead sulfochromate yellow (C.I. Pigment Yellow 34)          | 1344-37-2  | 215-693-7 | Carc. 1B<br>Rep. Tox. 1A  | 13-Jan-2010                |
| 25 | Pitch, coal tar, high temp.                                 | 65996-93-2 | 266-028-2 | Carc. 1B<br>PBT<br>vPvB   | 13-Jan-2010                |
| 26 | Tris(2-chloroethyl)phosphate                                | 115-96-8   | 204-118-5 | Rep. Tox 1B   | 13-Jan-2010                |
| 27 | Acrylamide  | 79-06-1    | 201-173-7 | Carc. 1B<br>Muta. 1B  | 30-Mar-2010                |



| #  | Substance Name  | CAS No.                              | EC No.                 | Reason for Inclusion                 | Date of Inclusion |
|----|---|--------------------------------------|------------------------|--------------------------------------|-------------------|
| 28 | Ammonium dichromate   | 7789-09-5                            | 232-143-1              | Carc. 1B<br>Muta. 1B<br>Rep. Tox. 1B | 18-Jun-2010       |
| 29 | Boric Acid  | 10043-35-3<br>11113-50-1             | 233-139-2<br>234-343-4 | Rep. Tox. 1B                         | 18-Jun-2010       |
| 30 | Disodium tetraborate, anhydrous   | 1303-96-4<br>1330-43-4<br>12179-04-3 | 215-540-4              | Rep. Tox. 1B                         | 18-Jun-2010       |
| 31 | Potassium chromate  | 7789-00-6                            | 232-140-5              | Carc. 1B<br>Muta. 1B                 | 18-Jun-2010       |
| 32 | Potassium dichromate  | 7778-50-9                            | 231-906-6              | Carc. 1B<br>Muta. 1B<br>Rep. Tox. 1B | 18-Jun-2010       |
| 33 | Sodium chromate   | 7775-11-3                            | 231-889-5              | Carc. 1B<br>Muta. 1B<br>Rep. Tox. 1B | 18-Jun-2010       |
| 34 | Tetraboron disodium heptaoxide, hydrate   | 12267-73-1                           | 235-541-3              | Rep. Tox. 1B                         | 18-Jun-2010       |
| 35 | Trichloroethylene   | 79-01-6                              | 201-167-4              | Carc. 1B                             | 18-Jun-2010       |
| 36 | 2-Ethoxyethanol   | 110-80-5                             | 203-84-1               | Rep. Tox. 1B                         | 15-Dec-2010       |
| 37 | 2-Methoxyethanol  | 109-86-4                             | 203-713-7              | Rep. Tox. 1B                         | 15-Dec-2010       |
| 38 | Acids generated from chromium trioxide and their oligomers. Group containing:<br>Chromic Acid<br>Dichromic Acid<br>Oligomers of chromic acid and dichromic acid | 7738-94-5<br>13530-68-2              | 231-801-5<br>236-881-5 | Carc. 1B                             | 15-Dec-2010       |
| 39 | Chromium trioxide   | 1333-82-0                            | 215-607-8              | Carc. 1A<br>Muta. 1B                 | 15-Dec-2010       |
| 40 | Cobalt(II) carbonate  | 513-79-1                             | 208-169-4              | Carc. 1B<br>Rep. Tox. 1B             | 15-Dec-2010       |
| 41 | Cobalt(II) diacetate  | 71-48-7                              | 200-755-8              | Carc. 1B<br>Rep. Tox. 1B             | 15-Dec-2010       |
| 42 | Cobalt(II) dinitrate  | 10141-05-6                           | 233-402-1              | Carc. 1B<br>Rep. Tox. 1B             | 15-Dec-2010       |
| 43 | Cobalt(II) sulphate   | 10124-43-3                           | 233-334-2              | Carc. 1B<br>Rep. Tox. 1B             | 15-Dec-2010       |



| #  | Substance Name  | CAS No.               | EC No.    | Reason for Inclusion              | Date of Inclusion          |
|----|---|-----------------------|-----------|-----------------------------------|----------------------------|
| 44 | 1,2,3-Trichloropropane  | 96-18-4               | 202-486-1 | Carc. 1B<br>Rep. Tox. 1B          | 20-Jun-2011                |
| 45 | 1,2-Benzenedicarboxylic acid di-C7-11 branched and linear alkyl esters (DHNUP)  | 68515-42-4            | 271-084-6 | Rep. Tox. 1B                      | 20-Jun-2011                |
| 46 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)   | 71888-89-6            | 276-158-1 | Rep. Tox. 1B                      | 20-Jun-2011                |
| 47 | 1-Methyl-2-pyrrolidone  | 872-50-4              | 212-828-1 | Rep. Tox. 1B                      | 20-Jun-2011                |
| 48 | 2-Ethoxyethylacetate  | 111-15-9              | 203-839-2 | Rep. Tox. 1B                      | 20-Jun-2011                |
| 49 | Cobalt dichloride   | 7646-79-9             | 231-589-4 | Rep. Tox. 1B<br>Carc. 1B          | 20-Jun-2011<br>28-Oct-2008 |
| 50 | Hydrazine   | 7803-57-8<br>302-01-2 | 206-114-9 | Carc. 1B                          | 20-Jun-2011                |
| 51 | Strontium chromate  | 7789-06-2             | 232-142-6 | Carc. 1B                          | 20-Jun-2011                |
| 52 | 1,2-Dichloroethane; ethylene dichloride   | 107-06-2              | 203-458-1 | Carc. 1B                          | 19-Dec-2011                |
| 53 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)  | 101-14-4              | 202-918-9 | Carc. 1B                          | 19-Dec-2011                |
| 54 | 2-Methoxyaniline; o-Anisidine   | 90-04-0               | 201-963-1 | Carc. 1B                          | 19-Dec-2011                |
| 55 | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)  | 140-66-9              | 205-426-2 | Equivalent<br>Level of<br>Concern | 19-Dec-2011                |
| 56 | <b>Aluminosilicate Refractory Ceramic Fibres</b><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 |                       |           | Carc. 1B                          | 19-Dec-2011                |
| 57 | Arsenic acid  | 7778-39-4             | 231-901-9 | Carc. 1A                          | 19-Dec-2011                |
| 58 | Bis(2-methoxyethyl) ether   | 111-96-6              | 203-924-4 | Rep. Tox. 1B                      | 19-Dec-2011                |
| 59 | Bis(2-methoxyethyl) phthalate   | 117-82-8              | 204-212-6 | Rep. Tox. 1B                      | 19-Dec-2011                |
| 60 | Calcium arsenate  | 7778-44-1             | 231-904-5 | Carc. 1A                          | 19-Dec-2011                |
| 61 | Dichromium tris(chromate)   | 24613-89-6            | 246-356-2 | Carc. 1B                          | 19-Dec-2011                |



| #  | Substance Name  | CAS No.    | EC No.    | Reason for Inclusion     | Date of Inclusion |
|----|---|------------|-----------|--------------------------|-------------------|
| 62 | Formaldehyde, oligomeric reaction products with aniline (technical MDA)   | 25214-70-4 | 500-036-1 | Carc. 1B                 | 19-Dec-2011       |
| 63 | Lead diazide; Lead azide  | 13424-46-9 | 236-542-1 | Rep. Tox. 1A             | 19-Dec-2011       |
| 64 | Lead dipicrate  | 6477-64-1  | 229-335-2 | Rep. Tox. 1A             | 19-Dec-2011       |
| 65 | Lead styphnate  | 15245-44-0 | 239-290-0 | Rep. Tox. 1A             | 19-Dec-2011       |
| 66 | N,N-dimethylacetamide (DMAC)  | 127-19-5   | 204-826-4 | Rep. Tox. 1B             | 19-Dec-2011       |
| 67 | Pentazinc chromate octahydroxide  | 49663-84-5 | 256-418-0 | Carc. 1A                 | 19-Dec-2011       |
| 68 | Phenolphthalein   | 77-09-8    | 201-004-7 | Carc. 1B                 | 19-Dec-2011       |
| 69 | Potassium hydroxyoctaoxodizincatedichromate   | 11103-86-9 | 234-329-8 | Carc. 1A                 | 19-Dec-2011       |
| 70 | Trilead diarsenate  | 3687-31-8  | 222-979-5 | Carc. 1A<br>Rep. Tox. 1A | 19-Dec-2011       |
| 71 | <b>Zirconia Aluminosilicate Refractory Ceramic Fibres</b> 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 |            |           | Carc. 1B                 | 19-Dec-2011       |
| 72 | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) [ <i>with</i> ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]  | 2580-56-5  | 219-943-6 | Carc. 1B                 | 18-Jun-2012       |
| 73 | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [ <i>with</i> ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]  | 548-62-9   | 208-953-6 | Carc. 1B                 | 18-Jun-2012       |
| 74 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)   | 112-49-2   | 203-977-3 | Rep. Tox. 1B             | 18-Jun-2012       |
| 75 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)   | 110-71-4   | 203-794-9 | Rep. Tox. 1B             | 18-Jun-2012       |
| 76 | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)  | 2451-62-9  | 219-514-3 | Muta. 1B                 | 18-Jun-2012       |
| 77 | 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)   | 59653-74-6 | 423-400-0 | Muta. 1B                 | 18-Jun-2012       |



| #  | Substance Name   | CAS No.     | EC No.    | Reason for Inclusion  | Date of Inclusion |
|----|--|-------------|-----------|---|-------------------|
| 78 | 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)]                                      | 561-41-1    | 209-218-2 | Carc. 1B  | 18-Jun-2012       |
| 79 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)   | 90-94-8     | 202-027-5 | Carc. 1B  | 18-Jun-2012       |
| 80 | Diboron Trioxide   | 1303-86-2   | 215-125-8 | Rep. Tox. 1B  | 18-Jun-2012       |
| 81 | Formamide  | 75-12-7     | 200-842-0 | Rep. Tox. 1B  | 18-Jun-2012       |
| 82 | Lead(II) bis(methanesulfonate)   | 17570-76-2  | 401-750-5 | Rep. Tox. 1A  | 18-Jun-2012       |
| 83 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)   | 101-61-1    | 202-959-2 | Carc. 1B  | 18-Jun-2012       |
| 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)] | 6786-83-0   | 229-851-8 | Carc. 1B  | 18-Jun-2012       |
| 85 | [Phthalato(2-)]dioxotrilead  | 69011-06-9  | 273-688-5 | Rep. Tox. 1A  | 19-Dec-2012       |
| 86 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear   | 84777-06-0  | 284-032-2 | Rep. Tox. 1B  | 19-Dec-2012       |
| 87 | 1,2-diethoxyethane   | 629-14-1    | 211-076-1 | Rep. Tox. 1B  | 19-Dec-2012       |
| 88 | 1-bromopropane (n-propyl bromide)  | 106-94-5    | 203-445-0 | Rep. Tox. 1B  | 19-Dec-2012       |
| 89 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine   | 143860-04-2 | 421-150-7 | Rep. Tox. 1B  | 19-Dec-2012       |
| 90 | 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 [Endocrine Disruptors] | 19-Dec-2012       |
| 91 | 4,4'-methylenedi-o-toluidine   | 838-88-0    | 212-658-8 | Carc. 1B  | 19-Dec-2012       |
| 92 | 4,4'-oxydianiline and its salts  | 101-80-4    | 202-977-0 | Carc. 1B<br>Mut. 1B   | 19-Dec-2012       |
| 93 | 4-aminoazobenzene  | 60-09-3     | 200-453-6 | Carc. 1B  | 19-Dec-2012       |
| 94 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine)  | 95-80-7     | 202-453-1 | Carc. 1B  | 19-Dec-2012       |





| #   | Substance Name  | CAS No.                             | EC No.                              | Reason for Inclusion  | Date of Inclusion |
|-----|---|-------------------------------------|-------------------------------------|---|-------------------|
| 95  | 4-Nonylphenol, branched and linear<br><br>[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 [Endocrine Disruptors] | 19-Dec-2012       |
| 96  | 6-methoxy-m-toluidine (p-cresidine)   | 120-71-8                            | 204-419-1                           | Carc. 1B  | 19-Dec-2012       |
| 97  | Acetic acid, lead salt, basic   | 51404-69-4                          | 257-175-3                           | Rep. Tox. 1A  | 19-Dec-2012       |
| 98  | Biphenyl-4-ylamine  | 92-67-1                             | 202-177-1                           | Carc. 1A  | 19-Dec-2012       |
| 99  | Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)  | 1163-19-5                           | 214-604-9                           | PBT<br>vPvB   | 19-Dec-2012       |
| 100 | Cyclohexane-1,2-dicarboxylic anhydride [1]<br>cis-cyclohexane-1,2-dicarboxylic anhydride [2]<br>trans-cyclohexane-1,2-dicarboxylic anhydride [3]<br><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]. | 85-42-7<br>13149-00-3<br>14166-21-3 | 201-604-9<br>236-086-3<br>238-009-9 | Equivalent level of concern having probable serious effects to human health [Respiratory Sensitizers] | 19-Dec-2012       |
| 101 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))   | 123-77-3                            | 204-650-8                           | Equivalent level of concern having probable serious effects to human health [Respiratory Sensitizers] | 19-Dec-2012       |
| 102 | Dibutyltin dichloride (DBTC)  | 683-18-1                            | 211-670-0                           | Rep. Tox. 1B  | 19-Dec-2012       |
| 103 | Diethyl sulphate  | 64-67-5                             | 200-589-6                           | Carc. 1B<br>Mut. 1B   | 19-Dec-2012       |
| 104 | Diisopentylphthalate (DIPP)   | 605-50-5                            | 210-088-4                           | Rep. Tox. 1B  | 19-Dec-2012       |
| 105 | Dimethyl sulphate   | 77-78-1                             | 201-058-1                           | Carc. 1B  | 19-Dec-2012       |



| #   | Substance Name   | CAS No.  | EC No.   | Reason for Inclusion  | Date of Inclusion |
|-----|--|--|--|---|-------------------|
| 106 | Dinoseb (6-sec-butyl-2,4-dinitrophenol)  | 88-85-7  | 201-861-7  | Rep. Tox. 1B  | 19-Dec-2012       |
| 107 | Dioxobis(stearato)trilead  | 12578-12-0   | 235-702-8  | Rep. Tox. 1A  | 19-Dec-2012       |
| 108 | Fatty acids, C16-18, lead salts  | 91031-62-8   | 292-966-7  | Rep. Tox. 1A  | 19-Dec-2012       |
| 109 | Furan  | 110-00-9   | 203-727-3  | Carc. 1B  | 19-Dec-2012       |
| 110 | Henicosaflluoroundecanoic acid   | 2058-94-8  | 218-165-4  | vPvB  | 19-Dec-2012       |
| 111 | Heptacosaflluorotetradecanoic acid   | 376-06-7   | 206-803-4  | vPvB  | 19-Dec-2012       |
| 112 | Hexahydromethylphthalic anhydride [1]<br>Hexahydro-4-methylphthalic anhydride [2]<br>Hexahydro-1-methylphthalic anhydride [3]<br>Hexahydro-3-methylphthalic anhydride [4]<br><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] | 25550-51-0<br>19438-60-9<br>48122-14-1<br>57110-29-9 | 247-094-1<br>243-072-0<br>256-356-4<br>260-566-1 | Equivalent level of concern having probable serious effects to human health [Respiratory Sensitizers] | 19-Dec-2012       |
| 113 | Lead bis(tetrafluoroborate)  | 13814-96-5   | 237-486-0  | Rep. Tox. 1A  | 19-Dec-2012       |
| 114 | Lead cyanamidate   | 20837-86-9   | 244-073-9  | Rep. Tox. 1A  | 19-Dec-2012       |
| 115 | Lead dinitrate   | 10099-74-8   | 233-245-9  | Rep. Tox. 1A  | 19-Dec-2012       |
| 116 | Lead monoxide (Lead oxide)   | 1317-36-8  | 215-267-0  | Rep. Tox. 1A  | 19-Dec-2012       |
| 117 | Lead oxide sulfate   | 12036-76-9   | 234-853-7  | Rep. Tox. 1A  | 19-Dec-2012       |
| 118 | Lead titanium trioxide   | 12060-00-3   | 235-038-9  | Rep. Tox. 1A  | 19-Dec-2012       |
| 119 | Lead titanium zirconium oxide  | 12626-81-2   | 235-727-4  | Rep. Tox. 1A  | 19-Dec-2012       |
| 120 | Methoxyacetic acid   | 625-45-6   | 210-894-6  | Rep. Tox. 1B  | 19-Dec-2012       |
| 121 | Methyloxirane (Propylene oxide)  | 75-56-9  | 200-879-2  | Carc. 1B<br>Mut. 1B   | 19-Dec-2012       |
| 122 | N,N-dimethylformamide  | 68-12-2  | 200-679-5  | Rep. Tox. 1B  | 19-Dec-2012       |
| 123 | N-methylacetamide  | 79-16-3  | 201-182-6  | Rep. Tox. 1B  | 19-Dec-2012       |
| 124 | N-pentyl-isopentylphthalate  | 776297-69-9  | -  | Rep. Tox. 1B  | 19-Dec-2012       |
| 125 | o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]   | 97-56-3  | 202-591-2  | Carc. 1B  | 19-Dec-2012       |
| 126 | Orange lead (Lead tetroxide)   | 1314-41-6  | 215-235-6  | Rep. Tox. 1A  | 19-Dec-2012       |
| 127 | o-toluidine  | 95-53-4  | 202-429-0  | Carc. 1B  | 19-Dec-2012       |
| 128 | Pentacosaflluorotridecanoic acid   | 72629-94-8   | 276-745-2  | vPvB  | 19-Dec-2012       |
| 129 | Pentalead tetraoxide sulphate  | 12065-90-6   | 235-067-7  | Rep. Tox. 1A  | 19-Dec-2012       |
| 130 | Pyrochlore, antimony lead yellow   | 8012-00-8  | 232-382-1  | Rep. Tox. 1A  | 19-Dec-2012       |

| #   | Substance Name  | CAS No.    | EC No.    | Reason for Inclusion  | Date of Inclusion |
|-----|---|------------|-----------|---|-------------------|
| 131 | Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] | 68784-75-8 | 272-271-5 | Rep. Tox. 1A  | 19-Dec-2012       |
| 132 | Silicic acid, lead salt   | 11120-22-2 | 234-363-3 | Rep. Tox. 1A  | 19-Dec-2012       |
| 133 | Sulfurous acid, lead salt, dibasic  | 62229-08-7 | 263-467-1 | Rep. Tox. 1A  | 19-Dec-2012       |
| 134 | Tetraethyllead  | 78-00-2    | 201-075-4 | Rep. Tox. 1A  | 19-Dec-2012       |
| 135 | Tetralead trioxide sulphate   | 12202-17-4 | 235-380-9 | Rep. Tox. 1A  | 19-Dec-2012       |
| 136 | Tricosafuorododecanoic acid   | 307-55-1   | 206-203-2 | vPvB  | 19-Dec-2012       |
| 137 | Trilead bis(carbonate)dihydroxide   | 1319-46-6  | 215-290-6 | Rep. Tox. 1A  | 19-Dec-2012       |
| 138 | Trilead dioxide phosphonate   | 12141-20-7 | 235-252-2 | Rep. Tox. 1A  | 19-Dec-2012       |
| 139 | 4-Nonylphenol, branched and linear, ethoxylated<br><br><i>[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]</i>                         | -          | -         | Equivalent level of concern having probable serious effects to the environment (due to the endocrine disrupting properties of the degradation products) | 20-Jun-2013       |
| 140 | Ammonium pentadecafluorooctanoate (APFO)  | 3825-26-1  | 223-320-4 | Rep. Tox. 1B  | 20-Jun-2013       |

| #   | Substance Name                      | CAS No.   | EC No.    | Reason for Inclusion  | Date of Inclusion |
|-----|-------------------------------------|-----------|-----------|---|-------------------|
| 141 | Cadmium                             | 7440-43-9 | 231-152-8 | Carc. 1B<br>STOT RE1 -<br>Equivalent level<br>of concern<br>having<br>probable<br>serious effects<br>to human<br>health[adverse<br>effects on<br>kidney and<br>bone tissues<br>after prolonged<br>exposure] | 20-Jun-2013       |
| 142 | Cadmium Oxide                       | 1306-19-0 | 215-146-2 | Carc. 1B<br>STOT RE1 -<br>Equivalent level<br>of concern<br>having<br>probable<br>serious effects<br>to human<br>health[adverse<br>effects on<br>kidney and<br>bone tissues<br>after prolonged<br>exposure] | 20-Jun-2013       |
| 143 | Dipentyl phthalate (DPP)            | 131-18-0  | 205-017-9 | Rep. Tox. 1B  | 20-Jun-2013       |
| 144 | Pentadecafluorooctanoic acid (PFOA) | 335-67-1  | 206-397-9 | Rep. Tox. 1B<br>PBT   | 20-Jun-2013       |



| #   | Substance Name  | CAS No.                  | EC No.                 | Reason for Inclusion  | Date of Inclusion |
|-----|---|--------------------------|------------------------|---|-------------------|
| 145 | Cadmium Sulfide   | 1306-23-6                | 215-147-8              | Carc. 1B<br>STOT RE1 -<br>Equivalent level<br>of concern<br>having<br>probable<br>serious effects<br>to human<br>health[adverse<br>effects on<br>kidney and<br>bone tissues<br>after prolonged<br>exposure] | 16-Dec-2013       |
| 146 | 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) | 1937-37-7                | 217-710-3              | Carc. 1B  | 16-Dec-2013       |
| 147 | Dihexyl phthalate   | 84-75-3                  | 201-559-5              | Rep. Tox. 1B  | 16-Dec-2013       |
| 148 | Imidazolidine-2-thione; (2-imidazoline-2-thiol)   | 96-45-7                  | 202-506-9              | Rep. Tox. 1B  | 16-Dec-2013       |
| 149 | Trixylyl phosphate  | 25155-23-1               | 246-677-8              | Rep. Tox. 1B  | 16-Dec-2013       |
| 150 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)  | 573-58-0                 | 209-358-4              | Carc. 1B  | 16-Dec-2013       |
| 151 | Lead di(acetate)  | 301-04-2                 | 206-104-4              | Rep. Tox. 1A  | 16-Dec-2013       |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear  | 68515-50-4               | 271-093-5              | Rep. Tox 1B   | 16-Jun-2014       |
| 153 | Cadmium chloride  | 10108-64-2               | 233-296-7              | Carc. 1B<br>Muta. 1B<br>Rep. Tox. 1B<br>STOT RE1  | 16-Jun-2014       |
| 154 | Sodium perborate; perboric acid, sodium salt  | 10332-33-9<br>10486-00-7 | 239-172-9<br>234-390-0 | Rep. Tox 1B   | 16-Jun-2014       |
| 155 | Sodium peroxometaborate   | 7632-04-4                | 231-556-4              | Rep. Tox 1B   | 16-Jun-2014       |
| 156 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)  | 3846-71-7                | 223-346-6              | PBT<br>vPvB   | 17-Dec-2014       |
| 157 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)  | 15571-58-1               | 239-622-4              | Rep. Tox. 1B  | 17-Dec-2014       |



| #   | Substance Name   | CAS No.  | EC No.                 | Reason for Inclusion                             | Date of Inclusion |
|-----|--|--|------------------------|--|-------------------|
| 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) |  |                        | Rep. Tox. 1B                                     | 17-Dec-2014       |
| 159 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1   | 247-384-8              | PBT<br>vPvB                                      | 17-Dec-2014       |
| 160 | Cadmium fluoride   | 7790-79-6  | 232-222-0              | Carc. 1B<br>Muta. 1B<br>Rep. Tox. 1B<br>STOT RE1 | 17-Dec-2014       |
| 161 | Cadmium sulphate   | 10124-36-4,<br>31119-53-6  | 233-331-6              | Carc. 1B<br>Muta. 1B<br>Rep. Tox. 1B<br>STOT RE1 | 17-Dec-2014       |
| 162 | 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)  | 68515-51-5<br>68648-93-1   | 271-094-0<br>272-013-1 | Rep. Tox. 1B                                     | 15-Jun-2015       |
| 163 | 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]                    | 117933-89-8<br>186309-28-4<br>343934-04-3<br>343934-05-4<br>676367-02-5<br>676367-03-6<br>676367-04-7<br>676367-05-8<br>676367-06-9<br>676367-07-0<br>676367-08-1<br>676367-09-2 | 413-720-9              | vPvB   | 15-Jun-2015       |
| 164 | Nitrobenzene   | 98-95-3  | 202-716-0              | Rep. Tox. 1B                                     | 17-Dec-2015       |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)   | 3864-99-1  | 223-383-8              | vPvB   | 17-Dec-2015       |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)   | 36437-37-3   | 253-037-1              | vPvB   | 17-Dec-2015       |
| 167 | 1,3-propanesultone   | 1120-71-4  | 214-317-9              | Carc. 1B   | 17-Dec-2015       |
| 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts  | 375-95-1<br>21049-39-8<br>4149-60-4  | 206-801-3              | Rep. Tox. 1B<br>PBT                              | 17-Dec-2015       |

| #   | Substance Name  | CAS No.                            | EC No.                 | Reason for Inclusion  | Date of Inclusion          |
|-----|---|------------------------------------|------------------------|---|----------------------------|
| 169 | Benzo[def]chrysene, also known as Benzo[a]pyrene (BaP)  | 50-32-8                            | 202-028-5              | Carc. 1B<br>Muta. 1B<br>Rep. Tox. 1B<br>PBT<br>vPvB   | 20-Jun-2016                |
| 170 | 4,4'-isopropylidenediphenol (bisphenol A; BPA)  | 80-05-7                            | 201-245-8              | Rep. Tox. 1B<br>Equivalent level of concern having probable serious effects to the environment [Endocrine Disruptors] | 12-Jan-2017<br>10-Jul-2017 |
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts  | 335-76-2<br>3830-45-3<br>3108-42-7 | 206-400-3<br>221-470-5 | Rep. Tox. 1B<br>PBT   | 12-Jan-2017                |
| 172 | p-(1,1-dimethylpropyl)phenol  | 80-46-6                            | 201-280-9              | Equivalent level of concern having probable serious effects to environment (Article 57f) [endocrine disruption]       | 12-Jan-2017                |
| 173 | 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 57f)                              | 12-Jan-2017                |
|     |   | 355-46-4                           | 206-587-1              |   |                            |

| #   | Substance Name  | CAS No.  | EC No.                              | Reason for Inclusion | Date of Inclusion |
|-----|---|--|-------------------------------------|----------------------|-------------------|
| 174 | Perfluorohexane-1-sulfonic acid and its salts (PFHxS)   | 3871-99-6<br>41184-65-0<br>41242-12-0<br>55120-77-9<br>68259-08-5<br>70136-72-0<br>70225-16-0<br>72033-41-1<br>82382-12-5<br>92011-17-1<br>108427-54-9<br>108427-55-0<br>144116-10-9<br>153443-35-7<br>189274-31-5<br>202189-84-2<br>213740-81-9<br>341035-71-0<br>341548-85-4<br>350836-93-0<br>421555-73-9<br>421555-74-0<br>425670-70-8<br>866621-50-3<br>910606-39-2 | 223-393-2<br>269-511-6<br>274-462-9 | vPvB                 | 11-Jul-2017       |
| 174 | Perfluorohexane-1-sulfonic acid and its salts (PFHxS) (continued)<br><br><i>This list of substances is provided by ECHA at:<br/><a href="https://echa.europa.eu/candidate-list-table/-/dislist/details/0b0236e18184a0e1">https://echa.europa.eu/candidate-list-table/-/dislist/details/0b0236e18184a0e1</a>. Click on the Support Document "non-exhaustive_list_identifiers_pfhxs_en.docx".</i> | 911027-68-4<br>911027-69-5<br>928049-42-7<br>1000597-52-3<br>1187817-57-7<br>1310480-24-0<br>1310480-27-3<br>1310480-28-4<br>1329995-45-0<br>1329995-69-8<br>1462414-59-0  |                                     | vPvB                 | 11-Jul-2017       |
| 175 | Chrysene  | 218-01-9   | 205-923-4                           | Carc. 1B             | 15-Jan-2018       |



| #   | Substance Name    | CAS No.    | EC No.    | Reason for Inclusion   | Date of Inclusion |
|-----|-------------------|------------|-----------|--|-------------------|
|     |                   |            |           | PBT<br>vPvB  |                   |
| 176 | Benz[a]anthracene | 56-55-3    | 200-280-6 | Carc. 1B<br>PBT<br>vPvB  | 15-Jan-2018       |
| 177 | Cadmium nitrate   | 10325-94-7 | 233-710-6 | Carc. 1B<br>Muta. 1B<br>STOT RE1 -<br>Equivalent level<br>of concern<br>having<br>probable<br>serious effects<br>to human<br>health [adverse<br>effects on<br>kidney and<br>bone tissues<br>after prolonged<br>exposure] | 15-Jan-2018       |
| 178 | Cadmium hydroxide | 21041-95-2 | 244-168-5 | Carc. 1B<br>Muta. 1B<br>STOT RE1 -<br>Equivalent level<br>of concern<br>having<br>probable<br>serious effects<br>to human<br>health [adverse<br>effects on<br>kidney and<br>bone tissues<br>after prolonged<br>exposure] | 15-Jan-2018       |
| 179 | Cadmium carbonate | 513-78-0   | 208-168-9 | Carc. 1B<br>Muta. 1B   | 15-Jan-2018       |

| #   | Substance Name  | CAS No.  | EC No.    | Reason for Inclusion   | Date of Inclusion |
|-----|---|----------|-----------|--|-------------------|
|     |   |          |           | STOT RE1 - Equivalent level of concern having probable serious effects to human health [adverse effects on kidney and bone tissues after prolonged exposure] |                   |
| 180 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1 <sup>6,9</sup> .0 <sup>2,13</sup> .0 <sup>5,10</sup> ]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) [covering any of its individual anti- and syn-isomers or any combination thereof] | -        | -         | vPvB   | 15-Jan-2018       |
| 181 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear   | -        | -         | Equivalent level of concern having probable serious effects to environment (Article 57f) [endocrine disruption]  | 15-Jan-2018       |
| 182 | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)   | 552-30-7 | 209-008-0 | Equivalent level of concern having probable serious effects to human health [Respiratory Sensitizers]  | 27-Jun-2018       |

| #   | Substance Name                     | CAS No.                | EC No.    | Reason for Inclusion  | Date of Inclusion |
|-----|------------------------------------|------------------------|-----------|---|-------------------|
| 183 | Benzo[ghi]perylene                 | 191-24-2               | 205-883-8 | PBT<br>vPvB   | 27-Jun-2018       |
| 184 | Decamethylcyclopentasiloxane (D5)  | 541-02-6               | 208-764-9 | PBT<br>vPvB   | 27-Jun-2018       |
| 185 | Dicyclohexyl phthalate (DCHP)      | 84-61-7                | 201-545-9 | Rep. Tox. 1B<br>Equivalent level of concern having probable serious effects to the environment [Endocrine Disruptors] | 27-Jun-2018       |
| 186 | Disodium octaborate                | 12008-41-2             | 234-541-0 | Rep. Tox. 1B  | 27-Jun-2018       |
| 187 | Dodecamethylcyclohexasiloxane (D6) | 540-97-6               | 208-762-8 | PBT<br>vPvB   | 27-Jun-2018       |
| 188 | Ethylenediamine (EDA)              | 107-15-3               | 203-468-6 | Equivalent level of concern having probable serious effects to human health [Respiratory Sensitizers]                 | 27-Jun-2018       |
| 189 | Lead                               | 7439-92-1              | 231-100-4 | Rep. Tox. 1A  | 27-Jun-2018       |
| 190 | Octamethylcyclotetrasiloxane (D4)  | 556-67-2               | 209-136-7 | PBT<br>vPvB   | 27-Jun-2018       |
| 191 | Terphenyl, hydrogenated            | 61788-32-7             | 262-967-7 | vPvB  | 27-Jun-2018       |
| 192 | Pyrene                             | 129-00-0<br>1718-52-1  | 204-927-3 | PBT<br>vPvB   | 15-Jan-2019       |
| 193 | Phenanthrene                       | 85-01-8                | 201-581-5 | vPvB  | 15-Jan-2019       |
| 194 | Fluoranthene                       | 206-44-0<br>93951-69-0 | 205-912-4 | PBT<br>vPvB   | 15-Jan-2019       |
| 195 | Benzo[k]fluoranthene               | 207-08-9               | 205-916-6 | Carc. 1B<br>PBT   | 15-Jan-2019       |

| #   | Substance Name   | CAS No.    | EC No.    | Reason for Inclusion  | Date of Inclusion |
|-----|--|------------|-----------|---|-------------------|
|     |  |            |           | vPvB  |                   |
| 196 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane  | 6807-17-6  | 401-720-1 | Rep. Tox. 1B  | 15-Jan-2019       |
| 197 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)  | 15087-24-8 | 239-139-9 | Equivalent level of concern having probable serious effects to the environment [Endocrine Disruptors]   | 15-Jan-2019       |
| 198 | 2-methoxyethyl acetate   | 110-49-6   | 203-772-9 | Rep. Tox. 1B  | 16-Jul-2019       |
| 199 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)                                       | -          | -         | Equivalent level of concern having probable serious effects to the environment [Endocrine Disruptors]   | 16-Jul-2019       |
| 200 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) | -          | -         | Equivalent level of concern having probable serious effects to environment<br><br>Equivalent level of concern having probable serious effects to human health (Article 57f) | 16-Jul-2019       |

| #   | Substance Name   | CAS No.     | EC No.    | Reason for Inclusion  | Date of Inclusion |
|-----|--|-------------|-----------|---|-------------------|
| 201 | 4-tert-butylphenol                                       | 98-54-4     | 202-679-0 | Equivalent level of concern having probable serious effects to environment (Article 57f) [endocrine disruption]   | 16-Jul-2019       |
| 202 | Diisohexyl phthalate                                     | 71850-09-4  | 276-090-2 | Rep. Tox. 1B  | 16-Jan-2020       |
| 203 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone      | 119313-12-1 | 404-360-3 | Rep. Tox. 1B  | 16-Jan-2020       |
| 204 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5  | 400-600-6 | Rep. Tox. 1B  | 16-Jan-2020       |
| 205 | Perfluorobutane sulfonic acid (PFBS) and its salts       | -           | -         | Equivalent level of concern having probable serious effects to environment<br><br>Equivalent level of concern having probable serious effects to human health (Article 57f) | 16-Jan-2020       |
| 206 | 1-vinylimidazole   | 1072-63-5   | 214-012-0 | Rep. Tox. 1B  | 25-Jun-2020       |
| 207 | 2-methylimidazole  | 693-98-1    | 211-765-7 | Rep. Tox. 1B  | 25-Jun-2020       |
| 208 | butyl 4-hydroxybenzoate                                  | 94-26-8     | 202-318-7 | Equivalent level of concern having probable serious effects to  | 25-Jun-2020       |

| #   | Substance Name   | CAS No.    | EC No.    | Reason for Inclusion  | Date of Inclusion |
|-----|--|------------|-----------|---|-------------------|
|     |  |            |           | environment (Article 57f) [endocrine disruption]  |                   |
| 209 | Dibutylbis(pentane-2,4-dionato-O,O')tin  | 22673-19-4 | 245-152-0 | Rep. Tox. 1B  | 25-Jun-2020       |
| 210 | Bis(2-(2-methoxyethoxy)ethyl)ether   | 143-24-8   | 205-594-7 | Rep. Tox. 1B  | 19-Jan-2021       |
| 211 | Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety | -          | -         | Rep. Tox. 1B  | 19-Jan-2021       |
| 212 | 1,4-dioxane  | 123-91-1   | 204-661-8 | Carc. 1B<br><br>Equivalent level of concern having probable serious effects to environment<br><br>Equivalent level of concern having probable serious effects to human health (Article 57f) | 08-Jul-2021       |
| 213 | 2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)                                | -          | -         | Carc. 1B  | 08-Jul-2021       |
| 214 | 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers   | -          | -         | Rep. Tox. 1B  | 08-Jul-2021       |
| 215 | 4,4'-(1-methylpropylidene)bisphenol  | 77-40-7    | 201-025-1 | Equivalent level of concern having probable serious effects to  | 08-Jul-2021       |



| #   | Substance Name   | CAS No.     | EC No.    | Reason for Inclusion  | Date of Inclusion |
|-----|--|-------------|-----------|---|-------------------|
|     |  |             |           | environment (Article 57f) [endocrine disruption]  |                   |
| 216 | glutaral   | 111-30-8    | 203-856-5 | Equivalent level of concern having probable serious effects to human health [Respiratory Sensitizers]                               | 08-Jul-2021       |
| 217 | Medium-chain chlorinated paraffins (MCCP)<br>UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17 | -           | -         | PBT<br>vPvB   | 08-Jul-2021       |
| 218 | orthoboric acid, sodium salt   | -           | -         | Rep. Tox. 1B  | 08-Jul-2021       |
| 219 | Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)  | -           | -         | Rep. Tox. 1B<br><br>Equivalent level of concern having probable serious effects to environment (Article 57f) [endocrine disruption] | 08-Jul-2021       |
| 220 | tris(2-methoxyethoxy)vinylsilane   | 1067-53-4   | 213-934-0 | Rep. Tox. 1B  | 17-Jan-2022       |
| 221 | S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate                                  | 255881-94-8 | 401-850-9 | PBT   | 17-Jan-2022       |
| 222 | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol   | 119-47-1    | 204-327-1 | Rep. Tox. 1B  | 17-Jan-2022       |
| 223 | (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations   | -           | -         | Equivalent level of concern   | 17-Jan-2022       |

| #   | Substance Name              | CAS No.  | EC No.    | Reason for Inclusion   | Date of Inclusion |
|-----|-----------------------------|----------|-----------|--|-------------------|
|     | thereof (4-MBC)             |          |           | having probable serious effects to human health (Article 57f) [endocrine disruption] |                   |
| 224 | N-(hydroxymethyl)acrylamide | 924-42-5 | 213-103-2 | Carc. 1B<br>Muta. 1B   | 10-Jun-2022       |



## 5 Revision History

| Revision | Create Date (mm/dd/yyyy) | Description of Change   | Initiator of Change |
|----------|--------------------------|---|---------------------|
| A        | 08/10/2017               | Original document. Revised from previously uncontrolled document. | J. Sharp            |
| B        | 02/02/2018               | Incorporating 15-Jan-2018 additions to the REACH SVHC List.       | M. Mybeck           |
| C        | 06/28/2018               | Incorporating 27-Jun-2018 additions to the REACH SVHC List.       | M. Mybeck           |
| D        | 01/16/2019               | Incorporating 15-Jan-2019 additions to the REACH SVHC List.       | M. Mybeck           |
| E        | 07/16/2019               | Incorporating 16-Jul-2019 additions to the REACH SVHC List.       | M. Mybeck           |
| F        | 01/21/2020               | Incorporating 16-Jan-2020 additions to the REACH SVHC List.       | M. Mybeck           |
| G        | 06/25/2020               | Incorporating 25-Jun-2020 additions to the REACH SVHC List.       | M. Mybeck           |
| H        | 01/20/2021               | Incorporating 19-Jan-2021 additions to the REACH SVHC List.       | M. Mybeck           |
| I        | 07/08/2021               | Incorporating 08-Jul-2021 additions to the REACH SVHC List.       | M. Mybeck           |
| J        | 01/18/2022               | Incorporating 17-Jan-2022 additions to the REACH SVHC List.       | M. Mybeck           |
| K        | 06/10/2022               | Incorporating 10-Jun-2022 additions to the REACH SVHC List.       | M. Mybeck           |