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## < Semtech – REACH-SVHC 223 Compliance Inquiry >

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Dear Valued Customer,

March 31, 2022

Semtech Corporation acknowledges that the European Union has enacted the “REACH Regulation”, EC1907/2006. And within that regulation, Annex XIV addresses a listing of Substances of Very High Concern, SVHC, and Annex XVII which maintains a complete listing of hazardous substances along with restrictions on the manufacture and release to market of such hazardous substances. As Annex XIV continues to mature to address SVHC candidate list of substances proposed by ECHA (European Chemical Agency), and the guidelines defining protocol for the semiconductor industry are ratified, Semtech Corporation will continue to assess impact to our product, and the manufacturing processes used by our suppliers, and continue to take appropriate actions necessary to ensure compliance while maintaining the integrity of our supply chain. Part(s) listed below are not subject to EU WFD-SCIP directive.

As of the date of this letter, Semtech product, identified as pb-free, RoHS compliant, and their related processes do not intentionally use, add, contain nor exceed 0.1% weight by weight, or release any of the substances of very high concern listed in annex XIV and referenced in the attached table. This also applies to the Semtech product noted below which you expressed an interest in.

Part number(s): SMBJ150CA

Additionally, Semtech Corporation employs and maintains a fables business model as we do not own any significant portion of a fabrication or assembly process.

Pursuant to our business model, Semtech Corporation does not own nor operate a fabrication facility within the European Union. In that regard, we do not order, maintain nor dispose of chemicals at the levels specified by the European directive governing REACH reporting and compliance. The quantities and weights of Semtech components shipped into other countries are well below the minimum weight guidelines specified in the directive.

As a result, Semtech Corporation believes that the guidelines governing REACH registration, evaluation, and authorization are not applicable to the scope of manufacturing and shipment of Semtech product.

Semtech Corporation will re-evaluate its reporting and compliance requirements as the directive is revised, or significant changes in industry guidelines are imposed.



Semtech Corporation "Thanks You" for your inquiry and looks forward to a continued and successful business relationship.

If you have any questions, do not hesitate to give me a call.

Sincerely,

A handwritten signature in blue ink that reads "Randy Biddle" with a horizontal line underneath.

Randy Biddle  
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## < Semtech – REACH Compliance Inquiry >

|                  | No. | Substance name  | CAS No.  | EC No.                  | Notes                        |
|------------------|-----|---|--|-------------------------|------------------------------|
| SVHC1<br>2008.12 | 1   | Anthracene  | 120-12-7   | 204-371-1               |                              |
|                  | 2   | 4,4'- Diaminodiphenylmethane  | 101-77-9   | 202-974-4               |                              |
|                  | 3   | Dibutyl phthalate   | 84-74-2  | 201-557-4               | Plasticizer for PVC, etc     |
|                  | 4   | Cobalt dichloride   | 7646-79-9  | 231-589-4               | Silica gel indicator         |
|                  | 5   | Diarsenic pentaoxide  | 1303-28-2  | 215-116-9               |                              |
|                  | 6   | Diarsenic trioxide  | 1327-53-3  | 215-481-4               | anti-foaming agent for glass |
|                  | 7   | Sodium dichromate   | 7789-12-0,<br>10588-01-9   | 234-190-3               |                              |
|                  | 8   | 5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)   | 81-15-2  | 201-329-4               |                              |
|                  | 9   | Bis (2-ethyl(hexyl)phthalate) (DEHP)  | 117-81-7   | 204-211-0               | Plasticizer for PVC, etc.    |
|                  | 10  | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ – HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | 25637-99-4,<br>3194-55-6<br>(134237-51-7, 134237-50-6,<br>134237-52-8) | 247-148-4,<br>221-695-9 | Brominated flame retardants  |
|                  | 11  | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)   | 85535-84-8   | 287-476-5               |                              |
|                  | 12  | Bis(tributyltin)oxide   | 56-35-9  | 200-268-0               |                              |
|                  | 13  | Lead hydrogen arsenate  | 7784-40-9  | 232-064-2               |                              |
|                  | 14  | Benzyl butyl phthalate  | 85-68-7  | 201-622-7               | Plasticizer for PVC, etc.    |
|                  | 15  | Triethyl arsenate   | 15606-95-8   | 427-700-2               |                              |
| SVHC2<br>2010.01 | 16  | 2,4-Dinitrotoluene  | 121-14-2   | 204-450-0               |                              |
|                  | 17  | Anthracene oil  | 90640-80-5   | 292-602-7               |                              |



|                      |    |   |                                    |                       |  |
|----------------------|----|---|------------------------------------|-----------------------|--|
|                      | 18 | Anthracene oil, anthracene paste, distn. Lights             | 91995-17-4                         | 295-278-5             |  |
|                      | 19 | Anthracene oil, anthracene paste, anthracene fraction       | 91995-15-2                         | 295-275-9             |  |
|                      | 20 | Anthracene oil, anthracene-low                              | 90640-82-7                         | 292-604-8             |  |
|                      | 21 | Anthracene oil, anthracene paste                            | 90640-81-6                         | 292-603-2             |  |
|                      | 22 | Diisobutyl phthalate  | 84-69-5                            | 201-553-2             | Plasticizer for PVC, etc                           |
|                      | 23 | Aluminosilicate Refractory Ceramic Fibres (RCF)             | -                                  | (650-017-00-8)        |  |
|                      | 24 | Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) | -                                  | (650-017-00-8)        |  |
|                      | 25 | Lead chromate   | 7758-97-6                          | 231-846-0             |  |
|                      | 26 | Lead chromate molybdate sulfate red (C.I. Pigment Red 104)  | 12656-85-8                         | 235-759-9             |  |
|                      | 27 | Lead sulfochromate yellow (C.I. Pigment Yellow 34)          | 1344-37-2                          | 215-693-7             |  |
|                      | 28 | Acrylamide  | 79-06-1                            | 201-173-7             | used in waste water treatment and paper processing |
|                      | 29 | Tris(2-chloroethyl)phosphate                                | 115-96-8                           | 204-118-5             |  |
|                      | 30 | Coal tar pitch, high temperature                            | 65996-93-2                         | 266-028-2             |  |
| S<br>VHC3<br>2010.06 | 31 | Trichloroethylene   | 79-01-6                            | 201-167-4             |  |
|                      | 32 | Boric acid  | 10043-35-3 / 11113-50-1            | 233-139-2 / 234-343-4 |  |
| SVHC3<br>2010.06     | 33 | Disodium tetraborate, anhydrous                             | 1330-43-4 / 12179-04-3 / 1303-96-4 | 215-540-4             |  |
|                      | 34 | Tetraboron disodium heptaoxide, hydrate                     | 12267-73-1                         | 235-541-3             |  |
|                      | 35 | Sodium chromate   | 7775-11-3                          | 231-889-5             |  |
|                      | 36 | Potassium chromate  | 7789-00-6                          | 232-140-5             |  |
|                      | 37 | Ammonium dichromate   | 7789-09-5                          | 232-143-1             |  |
|                      | 38 | Potassium dichromate  | 7778-50-9                          | 231-                  |  |



|                   |    |  |                         |                     |  |
|-------------------|----|--|-------------------------|---------------------|--|
|                   |    |  |                         | 906-6               |  |
| SVHC4<br>2010.12  | 39 | Cobalt(II) sulphate  | 10124-43-3              | 233-334-2           |  |
|                   | 40 | Cobalt(II) dinitrate   | 10141-05-6              | 233-402-1           |  |
|                   | 41 | Cobalt(II) carbonate   | 513-79-1                | 208-169-4           |  |
|                   | 42 | Cobalt(II) diacetate   | 71-48-7                 | 200-755-8           |  |
|                   | 43 | 2-Methoxyethanol   | 109-86-4                | 203-713-7           |  |
|                   | 44 | 2-Ethoxyethanol  | 110-80-5                | 203-804-1           |  |
|                   | 45 | Chromium trioxide  | 1333-82-0               | 215-607-8           |  |
|                   | 46 | Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid | 7738-94-5<br>13530-68-2 | 231-801-5,236-881-5 |  |
| SVHC5<br>2011.05  | 47 | 2-ethoxyethyl acetate  | 111-15-9                | 203-839-2           |  |
|                   | 48 | Strontium chromate   | 7789-06-2               | 232-142-6           |  |
|                   | 49 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)  | 68515-42-4              | 271-084-6           |  |
|                   | 50 | Hydrazine  | 7803-57-8,<br>302-01-2  | 206-114-9           |  |
|                   | 51 | 1-methyl-2-pyrrolidone   | 872-50-4                | 212-828-1           |  |
|                   | 52 | 1,2,3-trichloropropane   | 96-18-4                 | 202-486-1           |  |
|                   | 53 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)  | 71888-89-6              | 276-158-1           |  |
| SVHC 6<br>2011.12 | 54 | Dichromium tris(chromate)  | 246-356-2               | 24613-89-6          |  |
|                   | 55 | Potassium hydroxyoctaoxodizincatedi-chromate   | 234-329-8               | 11103-86-9          |  |
|                   | 56 | Pentazinc chromate octahydroxide   | 256-418-0               | 49663-84-5          |  |
|                   | 57 | Formaldehyde, oligomeric reaction products with aniline (technical MDA)  | 500-036-1               | 25214-70-4          |  |
|                   | 58 | Bis(2-methoxyethyl) phthalate  | 204-212-6               | 117-82-8            |  |
|                   | 59 | 2-Methoxyaniline; o-Anisidine  | 201-963-1               | 90-04-0             |  |
|                   | 60 | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)   | 205-426-2               | 140-66-9            |  |
|                   | 61 | 1,2-Dichloroethane   | 203-458-1               | 107-06-             |  |



|                   |    |   |            |               |  |
|-------------------|----|---|------------|---------------|--|
| SVHC 6<br>2011.12 | 62 | Bis(2-methoxyethyl) ether   | 203-924-4  | 2<br>111-96-6 |  |
|                   | 63 | Arsenic acid  | 231-901-9  | 7778-39-4     |  |
|                   | 64 | Calcium arsenate  | 231-904-5  | 7778-44-1     |  |
|                   | 65 | Trilead diarsenate  | 222-979-5  | 3687-31-8     |  |
|                   | 66 | N,N-dimethylacetamide (DMAC)  | 204-826-4  | 127-19-5      |  |
|                   | 67 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)  | 202-918-9  | 101-14-4      |  |
|                   | 68 | Phenolphthalein   | 201-004-7  | 28376         |  |
|                   | 69 | Lead diazide  | 236-542-1  | 13424-46-9    |  |
|                   | 70 | Lead styphnate  | 239-290-0  | 15245-44-0    |  |
|                   | 71 | Lead dipicrate  | 229-335-2  | 6477-64-1     |  |
| SVHC7<br>2012.06  | 72 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)   | 110-71-4   | 203-794-9     |  |
|                   | 73 | Diboron trioxide  | 1303-86-2  | 215-125-8     |  |
|                   | 74 | Formamide   | '75-12-7   | 200-842-0     |  |
|                   | 75 | Lead(II) bis(methanesulfonate)  | 17570-76-2 | 401-750-5     |  |
|                   | 76 | 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)   | 2451-62-9  | 219-514-3     |  |
|                   | 77 | 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)   | 59653-74-6 | 423-400-0     |  |
|                   | 78 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)  | 90-94-8    | 202-027-5     |  |
|                   | 79 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)  | 101-61-1   | 202-959-2     |  |
| SVHC7<br>2012.06  | 80 | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)                   | 548-62-9   | 208-953-6     |  |
|                   | 81 | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) | 2580-56-5  | 219-943-6     |  |
|                   | 82 | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)                                  | 6786-83-0  | 229-851-8     |  |
|                   | 83 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl   | 561-41-1   | 209-          |  |



|                  |  |  |   |   |  |
|------------------|--|--|---|---|--|
|                  |  | alcohol  |   | 218-2   |  |
|                  | 84   | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]  | 6786-83-0   | 229-851-8   |  |
| SVHC8<br>2012.12 | 85   | Pyrochlore, antimony lead yellow   | 8012-00-8   | 232-382-1   |  |
|                  | 86   | 6-methoxy-m-toluidine (p-cresidine)  | 120-71-8  | 204-419-1   |  |
|                  | 87   | Henicosafleuroundecanoic acid  | 2058-94-8   | 218-165-4   |  |
|                  | 88   | Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [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 |  |
|                  | 89   | Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [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               |  |
|                  | 90   | Dibutyltin dichloride (DBTC)   | 683-18-1  | 211-670-0   |  |
|                  | 91   | Lead bis(tetrafluoroborate)  | 13814-96-5  | 237-486-0   |  |
|                  | 92   | Lead dinitrate   | 10099-74-8  | 233-245-9   |  |
|                  | 93   | Silicic acid, lead salt  | 11120-22-2  | 234-363-3   |  |
|                  | 94   | 4-Aminoazobenzene  | 1960-09-3   | 200-453-6   |  |
|                  | 95   | Lead titanium zirconium oxide  | 12626-81-2  | 235-727-4   |  |
|                  | 96   | Lead monoxide (lead oxide)   | 1317-36-8   | 215-267-0   |  |
|                  | 97   | o-Toluidine  | 95-53-4   | 202-429-0   |  |
| 98               | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2  | 421-150-7   |   |  |



|                  |                             |  |            |           |  |
|------------------|-----------------------------|--|------------|-----------|--|
| SVHC8<br>2012.12 | 99                          | 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 |  |
|                  | 100                         | Trilead bis(carbonate)dihydroxide  | 1319-46-6  | 215-290-6 |  |
|                  | 101                         | Furan  | 110-00-9   | 203-727-3 |  |
|                  | 102                         | N,N-dimethylformamide  | '1968-12-2 | 200-679-5 |  |
|                  | 103                         | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated<br><i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>  | -          | -         |  |
|                  | 104                         | 4-Nonylphenol, branched and linear<br><i>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]</i>   | -          | -         |  |
|                  | 105                         | 4,4'-methylenedi-o-toluidine   | 838-88-0   | 212-658-8 |  |
|                  | 106                         | Diethyl sulphate   | 64-67-5    | 200-589-6 |  |
|                  | 107                         | Dimethyl sulphate  | 77-78-1    | 201-058-1 |  |
|                  | 108                         | Lead oxide sulfate   | 12036-76-9 | 234-853-7 |  |
|                  | 109                         | Lead titanium trioxide   | 12060-00-3 | 235-038-9 |  |
|                  | 110                         | Acetic acid, lead salt, basic  | 51404-69-4 | 257-175-3 |  |
|                  | 111                         | [Phthalato(2-)]dioxotrilead  | 69011-06-9 | 273-688-5 |  |
|                  | 112                         | Bis(pentabromophenyl) ether<br>(decabromodiphenyl ether; DecaBDE)  | 1163-19-5  | 214-604-9 |  |
|                  | 113                         | N-methylacetamide  | 79-16-3    | 201-182-6 |  |
|                  | 114                         | Dinoseb (6-sec-butyl-2,4-dinitrophenol)  | 88-85-7    | 201-861-7 |  |
| 115              | 1,2-Diethoxyethane          | 629-14-1   | 211-076-1  |           |  |
| 116              | Tetralead trioxide sulphate | 12202-17-4   | 235-380-9  |           |  |





|                  |   |  |             |           |  |
|------------------|---|--|-------------|-----------|--|
| SVHC8<br>2012.12 | 117   | N-pentyl-isopentylphthalate                                      | 776297-69-9 | -         |  |
|                  | 118   | Dioxobis(□icycle□)trilead  | 12578-12-0  | 235-702-8 |  |
|                  | 119   | Tetraethyllead   | 78-00-2     | 201-075-4 |  |
|                  | 120   | Pentalead tetraoxide sulphate                                    | 12065-90-6  | 235-067-7 |  |
|                  | 121   | Pentacosafuorotridecanoic acid                                   | 72629-94-8  | 276-745-2 |  |
|                  | 122   | Tricosafuorododecanoic acid                                      | 307-55-1    | 206-203-2 |  |
|                  | 123   | Heptacosafuorotetradecanoic acid                                 | 376-06-7    | 206-803-4 |  |
|                  | 124   | 1-bromopropane (n-propyl bromide)                                | 106-94-5    | 203-445-0 |  |
|                  | 125   | Methoxyacetic acid   | 625-45-6    | 210-894-6 |  |
|                  | 126   | 4-methyl-m-phenylenediamine (toluene-2,4-diamine)                | 95-80-7     | 202-453-1 |  |
|                  | 127   | Methyloxirane (Propylene oxide)                                  | 75-56-9     | 200-879-2 |  |
|                  | 128   | Trilead dioxide phosphonate                                      | 12141-20-7  | 235-252-2 |  |
|                  | 129   | o-aminoazotoluene  | 97-56-3     | 202-591-2 |  |
|                  | 130   | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0  | 284-032-2 |  |
|                  | 131   | 4,4'-oxydianiline and its salts                                  | 101-80-4    | 202-977-0 |  |
|                  | 132   | Orange lead (lead tetroxide)                                     | 1314-41-6   | 215-235-6 |  |
|                  | 133   | Biphenyl-4-ylamine   | 92-67-1     | 202-177-1 |  |
|                  | 134   | Diisopentylphthalate   | 605-50-5    | 210-088-4 |  |
| 135              | Fatty acids, C16-18, lead salts                   | 91031-62-8   | 292-966-7   |           |  |
| 136              | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 123-77-3   | 204-650-8   |           |  |
| 137              | Sulfurous acid, lead salt, dibasic                | 62229-08-7   | 263-467-1   |           |  |
| 138              | Lead cyanamidate                                  | 20837-86-9   | 244-073-9   |           |  |
| SVHC9<br>2013.06 | 139   | Cadmium  | 7440-43-9   | 231-152-8 |  |
|                  | 140   | Cadmium oxide  | 1306-19-0   | 215-146-2 |  |



|                   |     |  |            |            |  |
|-------------------|-----|--|------------|------------|--|
| SVHC9<br>2013.06  | 141 | Ammonium pentadecafluorooctanoate (APFO)   | 3825-26-1  | 223-320-4  |  |
|                   | 142 | Pentadecafluorooctanoic acid (PFOA)  | 335-67-1   | 206-397-9  |  |
|                   | 143 | Dipentyl phthalate (DPP)   | 131-18-0   | 205-017-9  |  |
|                   | 144 | 4-Nonylphenol, branched and linear, ethoxylated<br>[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] | -          | -          |  |
| SVHC10<br>2013.12 | 145 | Cadmium sulphide   | 1306-23-6  | 215-147-8  | 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)   | 573-58-0   | 209-358-4  | 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 Black 38)  | 1937-37-7  | 217-710-3  | Carcinogenic (Article 57a)   |
|                   | 148 | Dihexyl phthalate  | 84-75-3    | 201-559-5  | Toxic for reproduction (Article 57 c)  |
|                   | 149 | Imidazolidine-2-thione (2-imidazoline-2-thiol)   | 96-45-7    | 202-506-9  | Toxic for reproduction (Article 57 c)  |
|                   | 150 | Lead di(acetate)   | 301-04-2   | 206-104-4  | Toxic for reproduction (Article 57 c)  |
|                   | 151 | Trixylyl phosphate   | 25155-23-1 | 246-677-8  | Toxic for reproduction (Article 57 c)  |
| SVHC11<br>2014.6  | 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 68515-50-4 | 271-093-5  | Toxic for reproduction (Article 57 c)  |
|                   | 153 | Sodium perborate; perboric acid, sodium salt   | -          | 239-172-9; | Toxic for reproduction   |



|                   |     |  |            |           |   |
|-------------------|-----|--|------------|-----------|---|
| SVHC11<br>2014.6  |     |  |            | 234-390-0 | (Article 57 c)  |
|                   | 154 | Sodium peroxometaborat   | 7632-04-4  | 231-556-4 | Toxic for reproduction (Article 57 c)   |
|                   | 155 | Cadmium chloride   | 10108-64-2 | 233-296-7 | 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) |
| SVHC12<br>2014.12 | 156 | 2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)  | 3846-71-7  | 223-346-6 | PBT (Article 57d); vPvB (Article 57e)   |
|                   | 157 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 15571-58-1 | 239-622-4 | 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)   | 25973-55-1 | 247-384-8 | PBT (Article 57d); vPvB (Article 57e)   |
| SVHC12<br>2014.12 | 160 | Cadmium fluoride   | 7790-79-6  | 232-222-0 | Carcinogenic (Article 57 a);  |



|                       |     |  |                                       |               |  |
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|                       |     |  |                                       |               | Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57f)                             |
| SVHC12<br>2014.12     | 161 | Cadmium sulphate   | 10124-36-4,<br>31119-53-6             | 233-<br>331-6 | 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 57f) |
| SVHC<br>13<br>2015.07 | 162 | 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters                    | 68515-51-5                            | 271-<br>094-0 |  |
|                       | 163 | 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters | 68648-93-1                            | 272-<br>013-1 |  |
| SVHC<br>14<br>2015.12 | 164 | 1,3-propanesultone   | 1120-71-4                             | 214-<br>317-9 | Carcinogenic (Article 57 a)  |
|                       | 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)         | 3864-99-1                             | 223-<br>383-8 | vPvB (Article 57 e)  |
|                       | 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)   | 36437-37-3                            | 253-<br>037-1 | vPvB (Article 57 e)  |
|                       | 167 | Nitrobenzene   | 98-95-3                               | 202-<br>716-0 | Toxic for reproduction (Article 57 c)  |
|                       | 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts            | 375-95-<br>1"21049-39-<br>8"4149-60-4 | 206-<br>801-3 | Toxic for reproduction (Article 57 c) PBT (Article 57 d)   |



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| SVHC<br>15<br>2016.06 | 169 | Benzo[def]chrysene   | 50-32-8  | 200-028-5 | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b)<br>Toxic for reproduction (Article 57c)<br>PBT (Article 57 d)<br>vPvB (Article 57 e) |
| SVHC<br>16<br>2017.01 | 170 | 4,4'-isopropylidenediphenol  | 80-05-7  | 201-245-8 | Toxic for reproduction (Article 57c)   |
|                       | 171 | 4-Heptylphenol, branched and linear  | -        | -         | Equivalent level of concern having probable serious effects to environment (Article 57 f)  |
|                       | 172 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts   | 335-76-2 | 206-400-3 | Toxic for reproduction (Article 57c)<br><br>PBT (Article 57 d)   |
|                       | 173 | p-(1,1-dimethylpropyl)phenol   | 80-46-6  | 201-280-9 | Equivalent level of concern having probable serious effects to environment (Article 57 f)  |
| SVHC<br>17<br>2017.07 | 174 | Perfluorohexane-1-sulphonic acid and its salts   | 355-46-4 | 206-587-1 | vPvB (Article 57e)   |
| SVHC<br>18<br>2018.01 | 175 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear (4-HPbl) | -        | -         | Endocrine disrupting properties (Article 57(f) – environment)  |
|                       | 176 | Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof                  | -        | -         | vPvB (Article 57e)   |



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|-----------------------|-----|-------------------|-----------|------------------------|--|
|                       | 177 | Chrysene          | 205-923-4 | 218-01-9, 1719-03-5    | Carcinogenic (Article 57a)<br>PBT (Article 57d)<br>vPvB (Article 57e)  |
|                       | 178 | Cadmium nitrate   | 233-710-6 | 10022-68-1, 10325-94-7 | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b)<br>Specific target organ toxicity after repeated exposure (Article 57(f) – human health) |
| SVHC<br>18<br>2018.01 | 179 | Cadmium hydroxide | 244-168-5 | 21041-95-2             | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b)<br>Specific target organ toxicity after repeated exposure (Article 57(f) – human health) |
|                       | 180 | Cadmium carbonate | 208-168-9 | 513-78-0               | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b)<br>Specific target organ toxicity after repeated exposure (Article 57(f) – human health) |
| SVHC<br>18<br>2018.01 | 181 | Benz[a]anthracene | 200-280-6 | 56-55-3, 1718-53-2     | Carcinogenic (Article 57a)<br>PBT (Article   |



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|-----------------------|-----|--|------------|---------------|--|
|                       |     |  |            |               | 57d)<br>vPvB (Article  |
| SVHC<br>19<br>2018.06 | 182 | Terphenyl, hydrogenated                        | 61788-32-7 | 262-<br>967-7 | vPvB (Article<br>57e)  |
|                       | 183 | Octamethylcyclotetrasiloxane                   | 556-67-2   | 209-<br>136-7 | PBT (Article<br>57d)#vPvB<br>(Article 57e)   |
|                       | 184 | Lead   | 7439-92-1  | 231-<br>100-4 | Toxic for<br>reproduction<br>(Article 57c)   |
|                       | 185 | Ethylenediamine                                | 107-15-3   | 203-<br>468-6 | Respiratory<br>□icycle□ing<br>properties<br>(Article 57(f) –<br>human health)  |
|                       | 186 | Dodecamethylcyclohexasiloxane                  | 540-97-6   | 208-<br>762-8 | PBT (Article<br>57d)#vPvB<br>(Article 57e)   |
|                       | 187 | Disodium octaborate                            | 12008-41-2 | 234-<br>541-0 | Toxic for<br>reproduction<br>(Article 57c)   |
|                       | 188 | Dicyclohexyl phthalate                         | 84-61-7    | 201-<br>545-9 | Toxic for<br>reproduction<br>(Article<br>57c)#Endocrine<br>disrupting<br>properties<br>(Article 57(f) –<br>human health) |
|                       | 189 | Decamethylcyclopentasiloxane                   | 541-02-6   | 208-<br>764-9 | PBT (Article<br>57d)#vPvB<br>(Article 57e)   |
|                       | 190 | Benzo[ghi]perylene                             | 191-24-2   | 205-<br>883-8 | PBT (Article<br>57d)#vPvB<br>(Article 57e)   |
|                       | 191 | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride | 552-30-7   | 209-<br>008-0 | Respiratory<br>□icycle□ing<br>properties<br>(Article 57(f) –<br>human health)  |



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| SVHC<br>20<br>2019.01 | 192 | Pyrene   | 129-00-0;<br>1718-52-1  | 204-<br>927-3 | PBT (Article<br>57d)#vPvB<br>(Article 57e)                                     |
|                       | 193 | Phenanthrene   | 85-01-8                 | 201-<br>581-5 | vPvB (Article<br>57e)  |
|                       | 194 | Fluoranthene   | 206-44-0;<br>93951-69-0 | 205-<br>912-4 | PBT (Article<br>57d)#vPvB<br>(Article 57e)                                     |
|                       | 195 | Benzo[k]fluoranthene   | 207-08-9                | 205-<br>916-6 | Carcinogenic<br>(Article<br>57a)#PBT<br>(Article<br>57d)#vPvB<br>(Article 57e) |
|                       | 196 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane  | 6807-17-6               | 401-<br>720-1 | Toxic for<br>reproduction<br>(Article 57c)                                     |
|                       | 197 | 1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)                                 | 15087-24-8              | 239-<br>139-9 | Endocrine<br>disrupting<br>properties<br>(Article 57(f) –<br>environment)      |
| SVHC<br>21<br>2019.07 | 198 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) | -                       | -             | Endocrine<br>disrupting<br>properties<br>(Article 57(f) –<br>environment)      |
|                       | 199 | 4-tert-butylphenol   | 98-54-4                 | 202-<br>679-0 | Endocrine<br>disrupting<br>properties<br>(Article 57(f) –<br>environment)      |
|                       | 200 | 2-methoxyethyl acetate   | 110-49-6                | 203-<br>772-9 | Toxic for<br>reproduction<br>(Article 57c)                                     |
| SVHC<br>21<br>2019.07 | 201 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides                                     | -                       | -             | Equivalent<br>level of<br>concern  |





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|                       |     |  |             |           | having probable serious effects to human health (Article 57(f) – human health)#Equivalent level of concern<br>having probable serious effects to the environment (Article 57(f) – environment)                                |
| SVHC<br>22<br>2020.01 | 202 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone      | 119313-12-1 | 404-360-3 | Toxic for reproduction (Article 57c)  |
|                       | 203 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5  | 400-600-6 | Toxic for reproduction (Article 57c)  |
|                       | 204 | Diisohexyl phthalate                                     | 71850-09-4  | 276-090-2 | Toxic for reproduction (Article 57c)  |
|                       | 205 | Perfluorobutane sulfonic acid (PFBS) and its salts       | 375-73-5    | -         | Equivalent level of concern<br>having probable serious effects to human health (Article 57(f) – human health)#Equivalent level of concern<br>having probable serious effects to the environment (Article 57(f) – environment) |



|                       |     |  |            |           |  |
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| SVHC<br>23<br>2020.06 | 206 | 1-vinylimidazole   | 1072-63-5  | 214-012-0 | Toxic for reproduction (Article 57c)                           |
|                       | 207 | 2-methylimidazole  | 693-98-1   | 211-765-7 | Toxic for reproduction (Article 57c)                           |
|                       | 208 | Butyl 4-hydroxybenzoate  | 94-26-8    | 202-318-7 | Endocrine disrupting properties (Article 57(f) - human health) |
| SVHC<br>24<br>2021.01 | 209 | Dibutylbis(pentane-2,4-dionato-O,O')tin  | 22673-19-4 | 245-152-0 | Toxic for reproduction (Article 57c)                           |
|                       | 210 | Bis(2-(2-methoxyethoxy)ethyl)ether   | 143-24-8   | 205-594-7 | Toxic for reproduction (Article 57c)                           |
|                       | 211 | <p>Diocetyl tin 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</p> <p>Diocetyl tin dilaurate EC No.: 222-883-3   CAS No.: 3648-18-8</p> <p>dioctyl tin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. EC No.: -   CAS No.: -</p> <p>Stannane, dioctyl-, bis(coco acyloxy) derivs. EC No.: 293-901-5   CAS No.: 91648-39-4</p> | -          | -         | Toxic for reproduction (Article 57c)                           |



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| <p>SVHC<br/>25<br/>2021.07</p> | <p>212</p> | <p>1,4-dioxane</p>   | <p>123-91-1</p> | <p>204-661-8</p> | <p>Carcinogenic (Article 57a)<br/>Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)<br/>Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)</p> |
| <p>SVHC<br/>25<br/>2021.07</p> | <p>213</p> | <p><u>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)</u><br/><u>2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)</u> EC No.: 253-057-0   CAS No.: 36483-57-5<br/><u>3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)</u> EC No.: -   CAS No.: 1522-92-5<br/><u>2,2-bis(bromomethyl)propane-1,3-diol (BMP)</u> EC No.: 221-967-7   CAS No.: 3296-90-0<br/><u>2,3-dibromo-1-propanol (2,3-DBPA)</u> EC No.: 202-480-9   CAS No.: 96-13-9</p> | <p>-</p>        | <p>-</p>         | <p>Carcinogenic (Article 57a)</p>   |



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| <p>SVHC<br/>25<br/>2021.07</p> | <p>214</p> | <p>2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers<br/>(2R)-3-(4-tert-butylphenyl)-2-methylpropanal EC No.: -   CAS No.: 75166-31-3</p> <p>2-(4-tert-butylbenzyl)propionaldehyde EC No.: 201-289-8   CAS No.: 80-54-6</p> <p>(2S)-3-(4-tert-butylphenyl)-2-methylpropanal EC No.: -   CAS No.: 75166-30-2</p> | <p>-</p>       | <p>-</p>         | <p>Toxic for reproduction (Article 57c)</p>   |
| <p>SVHC<br/>25<br/>2021.07</p> | <p>215</p> | <p>4,4'-(1-methylpropylidene)bisphenol</p>   | <p>77-40-7</p> | <p>201-025-1</p> | <p>Endocrine disrupting properties (Article 57(f) - environment)<br/>Endocrine disrupting properties (Article 57(f) - human health)</p> |



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| <p>SVHC<br/>25<br/>2021.07</p> | <p>216</p> | <p>glutaral</p>   | <p>111-30-8</p> | <p>203-856-5</p> | <p>Respiratory sensitising properties (Article 57(f) - human health)</p> |
| <p>SVHC<br/>25<br/>2021.07</p> | <p>217</p> | <p>Medium-chain chlorinated paraffins (MCCP) UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17 Alkanes, C14-16, chloro EC No.: -   CAS No.: 1372804-76-6 Alkanes, C14-17, chloro EC No.: 287-477-0   CAS No.: 85535-85-9 di-, tri- and tetrachlorotetradecane EC No.: 950-299-5   CAS No.: - Tetradecane, chloro derivs. EC No.: -   CAS No.: 198840-65-2</p> | <p>-</p>        | <p>-</p>         | <p>PBT (Article 57d)<br/><br/>vPvB (Article 57e)</p>                     |



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| <p>SVHC<br/>25<br/>2021.07</p> | <p>218</p> | <p>orthoboric acid, sodium salt<br/>boric acid (H3BO3), sodium salt, hydrate EC No.: -   CAS No.: 25747-83-5</p> <p>Boric acid (H3BO3), disodium salt EC No.: -   CAS No.: 22454-04-2</p> <p>Trisodium orthoborate EC No.: 238-253-6   CAS No.: 14312-40-4</p> <p>Boric acid, sodium salt EC No.: 215-604-1   CAS No.: 1333-73-9</p> <p>Orthoboric acid, sodium salt EC No.: 237-560-2   CAS No.: 13840-56-7</p> <p>Boric acid (H3BO3), sodium salt (1:1) EC No.: -   CAS No.: 14890-53-0</p>   | <p>-</p> | <p>-</p> | <p>Toxic for reproduction (Article 57c)</p>  |
| <p>SVHC<br/>25<br/>2021.07</p> | <p>219</p> | <p>Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)<br/>Phenol, dodecyl-, branched EC No.: 310-154-3   CAS No.: 121158-58-5</p> <p>Phenol, (tetrapropenyl) derivatives EC No.: -   CAS No.: 74499-35-7</p> <p>Phenol, 4-dodecyl, branched EC No.: -   CAS No.: 210555-94-5</p> <p>4-isododecylphenol EC No.: -   CAS No.: 27459-10-5</p> <p>Phenol, tetrapropylene- EC No.: -   CAS No.: 57427-55-1</p> <p>Phenol, 4-isododecyl- EC No.: -   CAS No.: 27147-75-7</p> | <p>-</p> | <p>-</p> | <p>Toxic for reproduction (Article 57c)</p> <p>Endocrine disrupting properties (Article 57(f) - environment)</p> <p>Endocrine disrupting properties (Article 57(f) - human health)</p> |

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| SVHC<br>26<br>2022.01 | 220 | (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)<br>(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EC No.: -   CAS No.: 1782069-81-1<br>(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EC No.: -   CAS No.: 95342-41-9<br>(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EC No.: -   CAS No.: 852541-25-4<br>(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one EC No.: 253-242-6   CAS No.: 36861-47-9<br>(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EC No.: -   CAS No.: 741687-98-9<br>(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EC No.: -   CAS No.: 852541-30-1<br>(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one EC No.: -   CAS No.: 852541-21-0 | -           | -         | Endocrine disrupting properties (Article 57(f) - human health) |
|                       | 221 | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol   | 119-47-1    | 204-327-1 | Toxic for reproduction (Article 57c)                           |
|                       | 222 | S-(tricyclo(5.2.1.0 <sup>2,6</sup> )deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate X4261  | 255881-94-8 | 401-850-9 | PBT (Article 57d)  |
|                       | 223 | tris(2-methoxyethoxy)vinylsilane   | 1067-53-4   | 213-934-0 | Toxic for reproduction (Article 57c)                           |