



< Semtech – REACH Compliance Inquiry >

Dear Valued Customer,

February 10, 2015

Semtech Corporation acknowledges that the European Union has enacted the “REACH Directive”, EC1907/2006. And within that directive, 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.

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): SL05.TCT, SL15.TCT & SL24.TCT

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 'Roya Motamedi'.

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| | No. | Substance name | CAS No. | EC No. | Notes |
|------------------|-----|---|--|-------------------------|---------------------------------|
| SVHC1 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, 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 (α – HBCDD, β -HBCDD, γ - HBCDD) | 25637-99-4, 3194-55-6 (134237-51- 7, 134237- 50-6, 134237-52- 8) | 247-148-4, 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 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 | |

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| | 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 | |
| SVHC3 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 | |
| | 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 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 13530-68-2 | 231-801- 5,236-881-5 | |
| SVHC5 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, 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 | 71888-89-6 | 276-158-1 | |

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| | | (DIHP) | | | |
| SVHC6 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 | 107-06-2 | |
| | 62 | Bis(2-methoxyethyl) ether | 203-924-4 | 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 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 (β-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 | |
| | 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 | |

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| | 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 | α,α -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 alcohol | 561-41-1 | 209-218-2 | |
| | 84 | α,α -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 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 | Henicosafuoroundecanoic 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] [<i>The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry</i>] | 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9 | 247-094-1, 243-072-0, 256-356-4, 260-566-1 | |
| | 89 | Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [<i>The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry</i>] | 85-42-7, 13149-00-3, 14166-21-3 | 201-604-9, 236-086-3, 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 | |

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| 98 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | 421-150-7 | |
| 99 | Silicic acid (H ₂ Si ₂ O ₅), 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 [<i>covering well-defined substances and UVCB substances, polymers and homologues</i>] | - | - | |
| 104 | 4-Nonylphenol, branched and linear [<i>substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof</i>] | - | - | |
| 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 (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 | |
| 117 | N-pentyl-isopentylphthalate | 776297-69-9 | - | |
| 118 | Dioxobis(stearato)trilead | 12578-12-0 | 235-702-8 | |
| 119 | Tetraethyllead | 78-00-2 | 201-075-4 | |

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| | 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 2013.06 | 139 | Cadmium | 7440-43-9 | 231-152-8 | |
| | 140 | Cadmium oxide | 1306-19-0 | 215-146-2 | |
| | 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 [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 2013.12 | 145 | Cadmium sulphide | 1306-23-6 | 215-147-8 | Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human |

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|-------------------|-----|--|------------|-------------------------|--|
| | | | | | 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 2014.06 | 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; 234-390-0 | Toxic for reproduction (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 2014.12 | 156 | 2-benzotriazol-2-yl-4,6-di-tertbutylphenol | 3846-71-7 | 223-346-6 | PBT (Article 57d); vPvB (Article 57e) |

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| | | (UV-320) | | | |
| | 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) |
| | 160 | Cadmium fluoride | 7790-79-6 | 232-222-0 | 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) |
| | 161 | Cadmium sulphate | 10124-36-4, 31119-53-6 | 233-331-6 | 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) |