



REACH SVHC Non-use Declaration

We hereby declare that our LSI products listed below do not contain the substances in the SVHC (Substances of Very High Concern) candidate list below in a concentration above 0.1wt%.

The Applicable Product : BU4224FVE-TR

Concentration limit : 0.1wt% (per each homogeneous material)

SVHC List : See Attached list

25.Dec.2015

Yoshitaka Ichise
General Manager
Quality Control Division
LSI Production Headquarters
ROHM Co., Ltd.

SVHC list

| | Substance name | CAS No. |
|----|---|--|
| 1 | Anthracene | 120-12-7 |
| 2 | 4,4'-Diaminodiphenylmethane (MDA) | 101-77-9 |
| 3 | Dibutyl phthalate (DBP) | 84-74-2 |
| 4 | Cobalt dichloride | 7646-79-9 |
| 5 | Diarsenic pentaoxide | 1303-28-2 |
| 6 | Diarsenic trioxide | 1327-53-3 |
| 7 | Sodium dichromate | 7789-12-0 10588-01-9 |
| 8 | 5-tert-butyl-2,4,6-trinitro-m-xylene | 81-15-2 |
| 9 | Bis(2-ethylhexyl)phthalate (DEHP) | 117-81-7 |
| 10 | Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) | 25637-99-4 3194-55-6 (134237-50-6 134237-51-7 134237-52-8) |
| 11 | Alkanes C10 to C13 chloro (Short chain chlorinated paraffins, SCCP) | 85535-84-8 |
| 12 | Bis(tributyltin) oxide (TBTO) | 56-35-9 |
| 13 | Lead hydrogen arsenate | 7784-40-9 |
| 14 | Benzylbutylphthalate (BBP) | 85-68-7 |
| 15 | Triethyl arsenate | 15606-95-8 |
| 16 | Anthracene oil | 90640-80-5 |
| 17 | Anthracene oil, anthracene paste, anthracene lights | 91995-17-4 |
| 18 | Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2 |
| 19 | Anthracene oil, anthracene- low | 90640-82-7 |
| 20 | Anthracene oil, anthracene paste | 90640-81-6 |
| 21 | Pitch, coal tar, high temperature | 65996-93-2 |
| 22 | 2,4-Dinitrotoluene | 121-14-2 |
| 23 | Diisobutyl phthalate (DIBP) | 84-69-5 |
| 24 | Lead chromate | 7758-97-6 |
| 25 | Lead Chromate molybdate sulphate red (C.I. Pigment Red 104) | 12656-85-8 |
| 26 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) | 1344-37-2 |
| 27 | Tris (2-chloroethyl) phosphate | 115-96-8 |
| 28 | Trichloroethylene | 79-01-6 |
| 29 | Boric acid | 10043-35-3 11113-50-1 |
| 30 | Disodium tetraborate, anhydrous | 1330-43-4 12179-04-3 1303-96-4 |
| 31 | Tetraboron disodium heptaoxide, hydrate | 12267-73-1 |
| 32 | Sodium chromate | 7775-11-3 |
| 33 | Potassium chromate | 7789-00-6 |
| 34 | Ammonium dichromate | 7789-09-5 |
| 35 | Potassium dichromate | 7778-50-9 |
| 36 | Acrylamide | 79-06-1 |
| 37 | Chromium trioxide | 1333-82-0 |
| 38 | 2-Ethoxyethanol | 110-80-5 |

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|----|---|-----------------------------------|
| 39 | 2-Methoxyethanol | 109-86-4 |
| 40 | Cobalt(II) carbonate | 513-79-1 |
| 41 | Cobalt(II) diacetate | 71-48-7 |
| 42 | Cobalt(II) dinitrate | 10141-05-6 |
| 43 | Cobalt(II) sulphate | 10124-43-3 |
| 44 | Acids generated from chromium trioxide and their oligomers | 7738-94-5 13530-68-2 - - |
| | Group containig | |
| | Chromic acid | |
| | Dichromic acid | |
| | Oligomers of chromic acid and dichromic acid, | |
| 45 | 2-ethoxyethyl acetate | 111-15-9 |
| 46 | Strontium chromate | 7789-06-2 |
| 47 | 1,2-Benzenedicarboxylic acid, di-C7 to C11-branched and linear alkyl esters (DHNUP) | 68515-42-4 |
| 48 | Hydrazine | 302-01-2 |
| | | 7803-57-8 |
| 49 | 1-methyl-2-pyrrolidone | 872-50-4 |
| 50 | 1,2,3-trichloropropane | 96-18-4 |
| 51 | 1,2-Benzenedicarboxylic acid, di-C6 to C8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 |
| 52 | Dichromium tris(chromate) | 24613-89-6 |
| 53 | Potassiumhydroxyoctaoxidizincatedi-chromate | 11103-86-9 |
| 54 | Pentazinc chromateoctahydroxide | 49663-84-5 |
| 55 | Aluminosilicate Refractory Ceramic Fibres | N/A |
| 56 | Zirconia Aluminosilicate Refractory Ceramic Fibres | N/A |
| 57 | Formaldehyde, oligomericreaction products withaniline (technical MDA) | 25214-70-4 |
| 58 | Bis(2-methoxyethyl)phthalate | 117-82-8 |
| 59 | 2-Methoxyaniline; o-Anisidine | 90-04-0 |
| 60 | 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) | 140-66-9 |
| 61 | 1,2-Dichloroethane | 107-06-2 |
| 62 | Bis(2-methoxyethyl) ether | 111-96-6 |
| 63 | Arsenic acid | 7778-39-4 |
| 64 | Calcium arsenate | 7778-44-1 |
| 65 | Trilead diarsenate | 3687-31-8 |
| 66 | N,N-dimethylacetamide(DMAC) | 127-19-5 |
| 67 | 2,2'-dichloro-4,4'-methylenedianiline(MOCA) | 101-14-4 |
| 68 | Phenolphthalein | 77-09-8 |
| 69 | Lead azide Lead diazide | 13424-46-9 |
| 70 | Lead styphnate | 15245-44-0 |
| 71 | Lead dipicrate | 6477-64-1 |
| 72 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 112-49-2 |
| 73 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 110-71-4 |
| 74 | Diboron trioxide | 1303-86-2 |
| 75 | Formamide | 75-12-7 |
| 76 | Lead(II) bis(methanesulfonate) | 17570-76-2 |
| 77 | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione(TGIC) | 2451-62-9 |

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|-----|---|--|
| 78 | 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 |
| 79 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 90-94-8 |
| 80 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 101-61-1 |
| 81 | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) * | 548-62-9 |
| 82 | [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 |
| 83 | α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) * | 6786-83-0 |
| 84 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol * | 561-41-1 |
| 85 | Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) | 1163-19-5 |
| 86 | Pentacosfluorotridecanoic acid | 72629-94-8 |
| 87 | Tricosfluorododecanoic acid | 307-55-1 |
| 88 | Henicosfluoroundecanoic acid | 2058-94-8 |
| 89 | Heptacosfluorotetradecanoic acid | 376-06-7 |
| 90 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 123-77-3 |
| 91 | 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 13149-00-3 14166-21-3 |
| 92 | 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 19438-60-9 48122-14-1 57110-29-9 |
| 93 | 4-Nonylphenol, branched and linear [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] | - |
| 94 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] | - |
| 95 | Methoxyacetic acid | 625-45-6 |
| 96 | N,N-dimethylformamide | 68-12-2 |
| 97 | Dibutyltin dichloride (DBTC) | 683-18-1 |
| 98 | Lead monoxide (Lead oxide) | 1317-36-8 |
| 99 | Orange lead (Lead tetroxide) | 1314-41-6 |
| 100 | Lead bis(tetrafluoroborate) | 13814-96-5 |
| 101 | Trilead bis(carbonate)dihydroxide | 1319-46-6 |
| 102 | Lead titanium trioxide | 12060-00-3 |
| 103 | Lead titanium zirconium oxide | 12626-81-2 |

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|-----|--|-------------|
| 104 | Silicic acid, lead salt | 11120-22-2 |
| 105 | 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 |
| 106 | 1-bromopropane (n-propyl bromide) | 106-94-5 |
| 107 | Methyloxirane (Propylene oxide) | 75-56-9 |
| 108 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0 |
| 109 | Diisopentylphthalate (DIPP) | 605-50-5 |
| 110 | N-pentyl-isopentylphthalate | 776297-69-9 |
| 111 | 1,2-diethoxyethane | 629-14-1 |
| 112 | Acetic acid, lead salt, basic | 51404-69-4 |
| 113 | Lead oxide sulfate | 12036-76-9 |
| 114 | [Phthalato(2-)]dioxotrilead *6 | 69011-06-9 |
| 115 | Dioxobis(stearato)trilead | 12578-12-0 |
| 116 | Fatty acids, C16 to C18, lead salts | 91031-62-8 |
| 117 | Lead cyanidate | 20837-86-9 |
| 118 | Lead dinitrate | 10099-74-8 |
| 119 | Pentalead tetraoxide sulphate | 12065-90-6 |
| 120 | Pyrochlore, antimony lead yellow | 8012-00-8 |
| 121 | Sulfurous acid, lead salt, dibasic | 62229-08-7 |
| 122 | Tetraethyllead | 78-00-2 |
| 123 | Tetralead trioxide sulphate | 12202-17-4 |
| 124 | Trilead dioxide phosphonate | 12141-20-7 |
| 125 | Furan | 110-00-9 |
| 126 | Diethyl sulphate | 64-67-5 |
| 127 | Dimethyl sulphate | 77-78-1 |
| 128 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 |
| 129 | Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 88-85-7 |
| 130 | 4,4'-methylenedi-o-toluidine | 838-88-0 |
| 131 | 4,4'-oxydianiline and its salts | 101-80-4 |
| 132 | 4-aminoazobenzene | 60-09-3 |
| 133 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 95-80-7 |
| 134 | 6-methoxy-m-toluidine (p-cresidine) | 120-71-8 |
| 135 | Biphenyl-4-ylamine | 92-67-1 |
| 136 | o-aminoazotoluene [(4-o-tolylazo-o-toluidine)] | 97-56-3 |
| 137 | o-toluidine | 95-53-4 |
| 138 | N-methylacetamide | 79-16-3 |
| 139 | Cadmium | 7440-43-9 |
| 140 | Cadmium oxide | 1306-19-0 |
| 141 | Dipentyl phthalate (DPP) | 131-18-0 |
| 142 | 4-Nonylphenol, branched and linear, ethoxylated | - |
| 143 | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 |
| 144 | Pentadecafluorooctanoic acid (PFOA) | 335-67-1 |
| 145 | Cadmium sulphide | 1306-23-6 |

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| | Substance name | CAS No. |
|-----|--|-------------------------------------|
| 146 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 573-58-0 |
| 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 |
| 148 | Dihexyl phthalate | 84-75-3 |
| 149 | Imidazolidine-2-thione (2-imidazoline-2-thiol) | 96-45-7 |
| 150 | Lead di(acetate) | 301-04-2 |
| 151 | Trixylyl phosphate | 25155-23-1 |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 |
| 153 | Cadmium chloride | 10108-64-2 |
| 154 | Sodium perborate; perboric acid, sodium salt | - |
| 155 | Sodium peroxometaborate | 7632-04-4 |
| 156 | Cadmium fluoride | 7790-79-6 |
| 157 | Cadmium sulphate | 10124-36-4; 31119-53-6 |
| 158 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV320) | 3846-71-7 |
| 159 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV328) | 25973-55-1 |
| 160 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 15571-58-1 |
| 161 | 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) | - |
| 162 | 1,2-benzenedicarboxylic acid, di-C6 to C10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with 0.3% of dihexyl phthalate (EC No. 201-559-5) | - |
| 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 isomers of [1] and [2] or any combination thereof] | - |
| 164 | 1,3-Propanesultone | 1120-71-4 |
| 165 | 2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV327) | 3864-99-1 |
| 166 | 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV350) | 36437-37-3 |
| 167 | Nitrobenzene | 98-95-3 |
| 168 | Perfluorononan-1-ic-acid and its sodium and ammonium salts | 375-95-1 21049-39-8 4149-60-4 |

Notes

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