



## CLIFF ELECTRONIC COMPONENTS LTD.

REGULATION (EC) No 1907/2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Last Updated: January 2017

### Cliff Electronic Components UK Ltd

Confirms that none of its products or packaging contain any of the 173 Substances of Very High Concern (SVHC) in the Candidate List of Substances of Very High Concern for Authorisation in a concentration above the 0.1% by weight allowable limit.

(Published in accordance with Article 59(10) of the REACH Regulation)

| No. | Name  | CAS Number |
|-----|---|------------|
| 1   | Anthracene  | 120-12-7   |
| 2   | 4,4'- Diaminodiphenylmethane (or methylene dianiline)       | 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, dihydrate                                | 7789-12-0  |
| 8   | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)          | 81-15-2    |
| 9   | Bis (2-ethylhexyl)phthalate (DEHP)                          | 117-81-7   |
| 10  | Hexabromocyclododecane (HBCDD)                              | 25637-99-4 |
| 11  | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 |
| 12  | Bis(tributyltin)oxide (TBTO)                                | 56-35-9    |
| 13  | Lead hydrogen arsenate                                      | 7784-40-9  |
| 14  | Benzyl butyl phthalate (BBP)                                | 85-68-7    |
| 15  | Triethyl arsenate   | 15606-95-8 |
| 16  | Anthracene oil  | 90640-80-5 |
| 17  | Anthracene oil, anthracene paste, distn. 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  | Coal tar pitch, high temperature                            | 65996-93-2 |
| 22  | Acrylamide  | 79-06-1    |

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|    |   |                                     |
|----|---|-------------------------------------|
| 23 | Aluminosilicate, refractory ceramic fibres                                      |                                     |
| 24 | Zirconium aluminosilicate refractory ceramic fibres                             |                                     |
| 25 | 2,4-dinitrotoluene  | 121-14-2                            |
| 26 | Di-isobutyl phthalate   | 84-69-5                             |
| 27 | Lead chromate   | 7758-97-6                           |
| 28 | Lead chromate molybdate sulphate red (C I Pigment Red 104)                      | 12656-85-8                          |
| 29 | Lead sulfochromate yellow (C I Pigment Yellow 34)                               | 1344-37-2                           |
| 30 | Tris (2-chloroethyl) phosphate  | 115-96-8                            |
| 31 | Trichloroethylene   | 79-01-6                             |
| 32 | Boric acid  | 10043-35-3 and 11113-50-1           |
| 33 | Disodium tetraborate anhydrous  | 1303-96-4, 1330-43-4 and 12179-04-3 |
| 34 | Tetraboron disodium heptaoxide, hydrate   | 12267-73-1                          |
| 35 | Sodium chromate   | 7775-11-3                           |
| 36 | Potassium chromate  | 7789-00-6                           |
| 37 | Ammonium dichromate   | 7789-09-05                          |
| 38 | Potassium dichromate  | 7778-50-9                           |
| 39 | Cobalt(II) sulphate   | 10124-43-3                          |
| 40 | Cobalt(II) dinitrate  | 10141-05-6                          |
| 41 | Cobalt(II) carbonate  | 513-79-1                            |
| 42 | Cobalt(II) diacetate  | 71-48-7                             |
| 43 | 2-Methoxyethanol  | 109-86-4                            |
| 44 | 2-Ethoxyethanol   | 110-80-5                            |
| 45 | Chromium trioxide   | 1333-82-0                           |
| 46 | Chromic acid  | 7738-94-5                           |
|    | Dichromic acid  | 13530-68-2                          |
| 47 | 2-ethoxyethyl acetate   | 111-15-9                            |
| 48 | Strontium chromate  | 2151068                             |
| 49 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4                          |
| 50 | Hydrazine   | 302-01-2                            |
| 51 | 1-methyl-2-pyrrolidone  | 872-50-4                            |
| 52 | 1,2,3-trichloropropane  | 96-18-4                             |
| 53 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)     | 71888-89-6                          |

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|----|---|------------|
| 54 | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)  | 140-66-9   |
| 55 | 2-Methoxyaniline o-Anisidine  | 90-04-0    |
| 56 | Arsenic acid  | 7778-39-4  |
| 57 | Calcium arsenate  | 7778-44-1  |
| 58 | Trilead diarsenate  | 3687-31-8  |
| 59 | 1,2-Dichloroethane ethylene dichloride  | 107-06-2   |
| 60 | Bis(2-methoxyethyl) ether   | 111-96-6   |
| 61 | Bis(2-methoxyethyl) phthalate   | 117-82-8   |
| 62 | N,N-dimethylacetamide (DMAC)  | 127-19-5   |
| 63 | Formaldehyde, oligomeric reaction products with aniline (technical MDA)   | 25214-70-4 |
| 64 | Lead diazide Lead azide   | 13424-46-9 |
| 65 | Lead styphnate  | 15245-44-0 |
| 66 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)  | 101-14-4   |
| 67 | Dichromium tris(chromate)   | 24613-89-6 |
| 68 | Potassium hydroxyoctaoxodizincatedichromate   | 11103-86-9 |
| 69 | Pentazinc chromate octahydroxide  | 49663-84-5 |
| 70 | Phenolphthalein   | 77-09-8    |
| 71 | Lead dipicrate  | 6477-64-1  |
| 72 | Formamide   | 75-12-7    |
| 73 | [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  |
| 74 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)  | 101-61-1   |
| 75 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)  | 90-94-8    |
| 76 | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)  | 2451-62-9  |
| 77 | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)                                 | 6786-83-0  |
| 78 | Diboron trioxide  | 1303-86-2  |
| 79 | 1,2-dimethoxyethane ethylene glycol dimethyl ether (EGDME)  | 110-71-4   |
| 80 | Lead(II) bis(methanesulfonate)  | 17570-76-2 |
| 81 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol   | 561-41-1   |
| 82 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME triglyme)  | 112-49-2   |
| 83 | 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 |
| 84 | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)                  | 548-62-9   |

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|-----|--|---------------|
| 85  | Bis(pentabromophenyl) ether (decabromodiphenyl ether DecaBDE)                                | 1163-19-5     |
| 86  | Pentacosafuorotridecanoic acid   | 72629-94-8    |
| 87  | Tricosafuorododecanoic acid  | 307-55-1      |
| 88  | Henicosafuoroundecanoic acid   | 2058-94-8     |
| 89  | Heptacosafuorotetradecanoic acid   | 376-06-7      |
| 90  | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))  | 123-77-3      |
| 91  | Cyclohexane-1,2-dicarboxylic anhydride [1]   | 85-42-7,      |
|     | Cis-cyclohexane-1,2-dicarboxylic anhydride [2]   | 13149-00-3,   |
|     | Trans-cyclohexane-1,2-dicarboxylic anhydride [3]   | 14166-21-3    |
| 92  | Hexahydromethylphthalic anhydride [1]  | 25550-51-0, 1 |
|     | Hexahydro-4-methylphthalic anhydride [2]   | 9438-60-9,    |
|     | Hexahydro-1-methylphthalic anhydride [3]   | 48122-14-1,   |
|     | Hexahydro-3-methylphthalic anhydride [4]   | 57110-29-9    |
| 93  | 4-Nonylphenol, branched and linear   |               |
| 94  | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated  |               |
| 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    |
| 104 | Silicic acid, lead salt  | 11120-22-2    |
| 105 | Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped | 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      |

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|-----|--|-------------|
| 112 | Acetic acid, lead salt, basic                      | 51404-69-4  |
| 113 | Lead oxide sulfate                                 | 12036-76-9  |
| 114 | [Phthalato(2-)]dioxotrilead                        | 69011-06-9  |
| 115 | Dioxobis(stearato)trilead                          | 12578-12-0  |
| 116 | Fatty acids, C16-18, lead salts                    | 91031-62-8  |
| 117 | Lead cyanamidate                                   | 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 | Ammonium pentadecafluorooctanoate (APFO)           | 3825-26-1   |
| 141 | Pentadecafluorooctanoic acid (PFOA)                | 335-67-1    |
| 142 | Dipentyl phthalate (DPP)                           | 131-18-0    |
| 143 | 4-Nonylphenol, branched and linear, ethoxylated    |             |

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|     |  |                           |
|-----|--|---------------------------|
| 144 | Cadmium oxide  | 1306-19-0                 |
| 145 | Cadmium sulphide   | 1306-23-6                 |
| 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                 |
| 147 | Dihexyl phthalate  | 84-75-3                   |
| 148 | Imidazolidine-2-thione; (2-imidazoline-2-thiol)  | 96-45-7                   |
| 149 | Trixylyl phosphate   | 25155-23-1                |
| 150 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)   | 573-58-0                  |
| 151 | Lead di(acetate)   | 301-04-2                  |
| 152 | Cadmium chloride   | 10108-64-2                |
| 153 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 68515-50-4                |
| 154 | Sodium peroxometaborate  | 2093666                   |
| 155 | Sodium perborate; perboric acid, sodium salt   |                           |
| 156 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)   | 3846-71-7                 |
| 157 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 15571-58-1                |
| 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) |                           |
| 159 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1                |
| 160 | Cadmium fluoride   | 7790-79-6                 |
| 161 | Cadmium sulphate   | 10124-36-4 and 31119-53-6 |
| 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 and 68648-93-1 |
| 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]                    |                           |
| 164 | 1,3-propanesultone   | 1120-71-4                 |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)   | 3864-99-1                 |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)   | 36437-37-3                |
| 167 | Nitrobenzene   | 98-95-3                   |
| 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts  |                           |
| 169 | Benzo[def]chrysene   | 50-32-8                   |
| 170 | p-(1,1-dimethylpropyl)phenol   | 80-46-6                   |

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|     |  |            |
|-----|--|------------|
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts |            |
| 172 | 4-Heptylphenol, branched and linear                                  |            |
| 173 | 4,4'-isopropylidenediphenol  | 36437-37-3 |

Martin Dudley

**Quality Assurance Manager**

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Signed on Behalf of  
CLIFF Electronic Components Ltd. UK

Date: January 2017

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