



## Reach Certificate of Compliance

### REACH CERTIFICATE OF COMPLIANCE – XMH Series

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This letter is to assure that the above-mentioned product(s) made from Xmultiple Technologies, Inc., **do not contain** any of the REACH Substances of Very High Concern (SVHC), as specified in the table below according to the Candidate list published by ECHA (European Chemical Agency).

The European Union issued a new Directive **2011/65/EU** on the Restriction of the use of certain Hazardous Substances in Electronics and Electronic Equipment (known as RoHS2). On January 12, 2017 the substance list has been increased to a total of 173 substances.

| #  | Substance Name  | CAS #      | SVHC Published Date |
|----|---|------------|---------------------|
| 1  | Anthracene  | 120-12-7   | 2008-10-28          |
| 2  | 4,4'- Diaminodiphenylmethane                                | 101-77-9   | 2008-10-28          |
| 3  | Dibutyl phthalate   | 84-74-2    | 2008-10-28          |
| 4  | Cobalt dichloride   | 7646-79-9  | 2008-10-28          |
| 5  | Diarsenic pentaoxide  | 1303-28-2  | 2008-10-28          |
| 6  | Diarsenic trioxide  | 1327-53-3  | 2008-10-28          |
| 7  | Sodium dichromate, dihydrate                                | 10588-01-9 | 2008-10-28          |
| 8  | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)          | 81-15-2    | 2008-10-28          |
| 9  | Bis (2-ethyl(hexyl)phthalate) (DEHP)                        | 117-81-7   | 2008-10-28          |
| 10 | Hexabromocyclododecane (HBCDD)                              | 3194-55-6  | 2008-10-28          |
| 11 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | 2008-10-28          |
| 12 | Bis(tributyltin) oxide,hexabutyldistannoxane                | 56-35-9    | 2008-10-28          |
| 13 | Lead hydrogen arsenate                                      | 7784-40-9  | 2008-10-28          |
| 14 | Triethyl arsenate   | 15606-95-8 | 2008-10-28          |
| 15 | Benzyl butyl phthalate                                      | 85-68-7    | 2008-10-28          |



CONNECTING THE INFORMATION AGE

| #  | Substance Name  | CAS #                   | Published Date |
|----|---|-------------------------|----------------|
| 16 | 2,4-Dinitrotoluene  | 204-450-0               | 2010-1-13      |
| 17 | Aluminosilicate Refractory Ceramic Fibres   |                         | 2010-1-13      |
| 18 | Anthracene oil  | 292-602-7               | 2010-1-13      |
| 19 | Anthracene oil, anthracene paste  | 292-603-2               | 2010-1-13      |
| 20 | Anthracene oil, anthracene paste, anthracene fraction   | 295-275-9               | 2010-1-13      |
| 21 | Anthracene oil, anthracene paste, distn. lights   | 295-278-5               | 2010-1-13      |
| 22 | Anthracene oil, anthracene-low  | 292-604-8               | 2010-1-13      |
| 23 | Diisobutyl phthalate  | 201-553-2               | 2010-1-13      |
| 24 | Lead chromate   | 231-846-0               | 2010-1-13      |
| 25 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)                                   | 235-759-9               | 2010-1-13      |
| 26 | Lead sulfochromate yellow (C.I. Pigment Yellow 34)  | 215-693-7               | 2010-1-13      |
| 27 | Pitch, coal tar, high temp.   | 266-028-2               | 2010-1-13      |
| 28 | Tris(2-chloroethyl)phosphate  | 204-118-5               | 2010-1-13      |
| 29 | Zirconia Aluminosilicate Refractory Ceramic Fibres  |                         | 2010-1-13      |
| 30 | Acrylamide  | 79-06-1                 | 2010-3-30      |
| 31 | Trichloroethylene   | 79-01-6                 | 2010-6-18      |
| 32 | Boric acid  | 10043-35-3              | 2010-6-18      |
| 33 | Disodium tetraborate, anhydrous   | 1330-43-4               | 2010-6-18      |
| 34 | Tetraboron disodium heptaoxide, hydrate   | 12267-73-1              | 2010-6-18      |
| 35 | Sodium chromate   | 7775-11-3               | 2010-6-18      |
| 36 | Potassium chromate  | 7789-00-6               | 2010-6-18      |
| 37 | Ammonium dichromate   | 7789-09-5               | 2010-6-18      |
| 38 | Potassium dichromate  | 7778-50-9               | 2010-6-18      |
| 39 | Cobalt Sulphate   | 10124-43-3              | 2011-12-1      |
| 40 | Cobalt dinitrate  | 10141-05-6              | 2011-12-1      |
| 41 | Cobalt carbonate  | 513-79-1                | 2011-12-1      |
| 42 | Cobalt diacetate  | 71-48-7                 | 2011-12-1      |
| 43 | 2-Methoxyethanol  | 109-86-4                | 2011-12-1      |
| 44 | 2-Ethoxyethanol   | 110-80-5                | 2011-12-1      |
| 45 | Chromium trioxide   | 1333-82-0               | 2011-12-1      |
| 46 | Acids generated from chromium trioxide and their oligomers:<br>Chromic Acid<br>Dichromic acid | 7738-94-5<br>13530-68-2 | 2011-12-1      |

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|----|---|------------|----------------|
| 47 | 2-Ethoxyethyl acetate   | 203-839-2  | 2011-12-1      |
| 48 | Strontium chromate  | 232-142-6  | 2011-12-1      |
| 49 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 271-084-6  | 2011-12-1      |
| 50 | Hydrazine   | 206-114-9  | 2011-12-1      |
| 51 | 1-methyl-2-pyrrolidone  | 212-828-1  | 2011-12-1      |
| 52 | 1,2,3-trichloropropane  | 202-486-1  | 2011-12-1      |
| 53 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)     | 276-158-1  | 2011-12-1      |
| 54 | Dichromium tris(chromate)   | 24613-89-6 | 2011-12-1      |
| 55 | Potassium hydroxyoctaoxodizincatedi-chromate                                    | 11103-86-9 | 2011-12-1      |
| 56 | Pentazinc chromate octahydroxide  | 49663-84-5 | 2011-12-1      |
| 57 | Formaldehyde, oligomeric reaction products with aniline (technical MDA)         | 25214-70-4 | 2011-12-1      |
| 58 | Bis(2-methoxyethyl) phthalate   | 117-82-8   | 2011-12-1      |
| 59 | 2-Methoxyaniline; o-Anisidine   | 90-04-0    | 2011-12-1      |
| 60 | 4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol)                         | 140-66-9   | 2011-12-1      |
| 61 | 1,2-Dichloroethane  | 107-06-2   | 2011-12-1      |
| 62 | Bis(2-methoxyethyl) ether   | 111-96-6   | 2011-12-1      |
| 63 | Arsenic acid  | 7778-39-4  | 2011-12-1      |
| 64 | Calcium arsenate  | 7778-44-1  | 2011-12-1      |
| 65 | Trilead diarsenate  | 3687-31-8  | 2011-12-1      |
| 66 | N,N-dimethylacetamide (DMAC)  | 127-19-5   | 2011-12-1      |
| 67 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)                                    | 101-14-4   | 2011-12-1      |
| 68 | Phenolphthalein   | 77-09-8    | 2011-12-1      |
| 69 | Lead diazide, Lead azide  | 13424-46-9 | 2011-12-1      |
| 70 | Lead styphnate  | 15245-44-0 | 2011-12-1      |
| 71 | Lead dipicrate  | 6477-64-1  | 2011-12-1      |
| 72 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)                               | 112-49-2   | 2012-06-18     |
| 73 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                     | 110-71-4   | 2012-06-18     |

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|----|--|---|----------------|
| 74 | Diboron trioxide   | 1303-86-2   | 2012-06-18     |
| 75 | Formamide  | 75-12-7   | 2012-06-18     |
| 76 | Lead(II) bis(methanesulfonate)   | 17570-76-2  | 2012-06-18     |
| 77 | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)  | 2451-62-9   | 2012-06-18     |
| 78 | $\beta$ -TGIC(1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)  | 59653-74-6  | 2012-06-18     |
| 79 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)   | 90-94-8   | 2012-06-18     |
| 80 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)   | 101-61-1  | 2012-06-18     |
| 81 | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)  | 548-62-9  | 2012-06-18     |
| 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   | 2012-06-18     |
| 83 | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)   | 6786-83-0   | 2012-06-18     |
| 84 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol  | 561-41-1  | 2012-06-18     |
| 85 | Pyrochlore, antimony lead yellow   | 8012-00-8   | 2012/12/19     |
| 86 | 6-methoxy-m-toluidine (p-cresidine)  | 120-71-8  | 2012/12/19     |
| 87 | Henicosafuoroundecanoic acid   | 2058-94-8   | 2012/12/19     |
| 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 | 2012/12/19     |
| 89 | Cyclohexane-1,2-dicarboxylic anhydride<br>cis-cyclohexane-1,2-dicarboxylic anhydride<br>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                   | 2012/12/19     |
| 90 | Dibutyltin dichloride (DBTC)   | 683-18-1  | 2012/12/19     |
| 91 | Lead bis(tetrafluoroborate)  | 13814-96-5  | 2012/12/19     |
| 92 | Lead dinitrate   | 10099-74-8  | 2012/12/19     |
| 93 | Silicic acid, lead salt  | 11120-22-2  | 2012/12/19     |
| 94 | 4-Aminoazobenzene  | 60-09-3   | 2012/12/19     |
| 95 | Lead titanium zirconium oxide  | 12626-81-2  | 2012/12/19     |
| 96 | Lead monoxide (lead oxide)   | 1317-36-8   | 2012/12/19     |
| 97 | o-Toluidine  | 95-53-4   | 2012/12/19     |

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| 98  | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine  | 143860-04-2 | 2012/12/19     |
| 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  | 2012/12/19     |
| 100 | Trilead bis(carbonate)dihydroxide   | 1319-46-6   | 2012/12/19     |
| 101 | Furan   | 110-00-9    | 2012/12/19     |
| 102 | N,N-dimethylformamide   | 68-12-2     | 2012/12/19     |
| 103 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]   | -           | 2012/12/19     |
| 104 | 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]  | -           | 2012/12/19     |
| 105 | 4,4'-methylenedi-o-toluidine  | 838-88-0    | 2012/12/19     |
| 106 | Diethyl sulphate  | 64-67-5     | 2012/12/19     |
| 107 | Dimethyl sulphate   | 77-78-1     | 2012/12/19     |
| 108 | Lead oxide sulfate  | 12036-76-9  | 2012/12/19     |
| 109 | Lead titanium trioxide  | 12060-00-3  | 2012/12/19     |
| 110 | Acetic acid, lead salt, basic   | 51404-69-4  | 2012/12/19     |
| 111 | [Phthalato(2-)]dioxotrilead   | 69011-06-9  | 2012/12/19     |
| 112 | Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)  | 1163-19-5   | 2012/12/19     |
| 113 | N-methylacetamide   | 79-16-3     | 2012/12/19     |
| 114 | Dinoseb (6-sec-butyl-2,4-dinitrophenol)   | 88-85-7     | 2012/12/19     |
| 115 | 1,2-Diethoxyethane  | 629-14-1    | 2012/12/19     |
| 116 | Tetralead trioxide sulphate   | 12202-17-4  | 2012/12/19     |
| 117 | N-pentyl-isopentylphthalate   | 776287-69-9 | 2012/12/19     |
| 118 | Dioxobis(stearato)trilead   | 12578-12-0  | 2012/12/19     |
| 119 | Tetraethyllead  | 78-00-2     | 2012/12/19     |
| 120 | Pentalead tetraoxide sulphate   | 276-745-2   |                |
| 121 | Pentacosafuorotridecanoic acid  | 72629-94-8  | 2012/12/19     |
| 122 | Tricosafuorododecanoic acid   | 307-55-1    | 2012/12/19     |
| 123 | Heptacosafuorotetradecanoic acid  | 376-06-7    | 2012/12/19     |
| 124 | 1-bromopropane (n-propyl bromide)   | 106-94-5    | 2012/12/19     |

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| 125 | Methoxyacetic acid  | 625-45-6   | 2012/12/19     |
| 126 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine)   | 95-80-7    | 2012/12/19     |
| 127 | Methyloxirane (Propylene oxide)   | 75-56-9    | 2012/12/19     |
| 128 | Trilead dioxide phosphonate   | 12141-20-7 | 2012/12/19     |
| 129 | o-aminoazotoluene   | 97-56-3    | 2012/12/19     |
| 130 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | 84777-06-0 | 2012/12/19     |
| 131 | 4,4'-oxydianiline and its salts   | 101-80-4   | 2012/12/19     |
| 132 | Orange lead (lead tetroxide)  | 1314-41-6  | 2012/12/19     |
| 133 | Biphenyl-4-ylamine  | 92-67-1    | 2012/12/19     |
| 134 | Diisopentylphthalate  | 605-50-5   | 2012/12/19     |
| 135 | Fatty acids, C16-18, lead salts   | 91031-62-8 | 2012/12/19     |
| 136 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))   | 123-77-3   | 2012/12/19     |
| 137 | Sulfurous acid, lead salt, dibasic  | 62229-08-7 | 2012/12/19     |
| 138 | Lead cyanamidate  | 20837-86-9 | 2012/12/19     |
| 139 | Cadmium   | 7440-43-9  | 2013/6/20      |
| 140 | Ammonium pentadecafluorooctanoate (APFO)  | 3825-26-1  | 2013/6/20      |
| 141 | Pentadecafluorooctanoic acid (PFOA)   | 335-67-1   | 2013/6/20      |
| 142 | Dipentyl phthalate (DPP)  | 131-18-0   | 2013/6/20      |
| 143 | 4-Nonylphenol, branched and linear, ethoxylated   |            | 2013/6/20      |
| 144 | Cadmium oxide   | 1306-19-0  | 2013/6/20      |
| 145 | Cadmium sulphide  | 1306-23-6  | 12/10/2013     |
| 146 | Disodium3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminona phthalene-1-sulphonate) (C.I. Direct Red 28)  | 573-58-0   | 12/10/2013     |
| 147 | Disodium4-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  | 12/10/2013     |
| 148 | Dihexyl phthalate   | 84-75-3    | 12/10/2013     |
| 149 | Imidazolidine-2-thione (2-imidazoline-2-thiol)  | 96-45-7    | 12/10/2013     |
| 150 | Lead di(acetate)  | 301-04-2   | 12/10/2013     |
| 151 | Trixylyl phosphate  | 25155-23-1 | 12/10/2013     |
| 152 | Cadmium chloride  | 10108-64-2 | 6/16/2014      |
| 153 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear  | 68515-50-4 | 6/16/2014      |
| 154 | Sodium peroxometaborate   | 7632-04-4  | 6/16/2014      |
| 155 | Sodium perborate; perboric acid, sodium salt  |            | 6/16/2014      |



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| #   | Substance Name  | CAS #                         | Published Date |
|-----|---|-------------------------------|----------------|
| 156 | Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-35-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4   | 10124-35-4                    | 12/17/2014     |
| 157 | Cadmium sulphate  | 31119-53-6                    | 12/17/2014     |
| 158 | 2-ethylhexyl 10-ethyl-4, 4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 15571-58-1                    | 12/17/2014     |
| 159 | -4,6-ditertpentylphenol (UV-328) (MDTP)   | 25973-55-1                    | 12/17/2014     |
| 160 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (U-320)   | 3846-71-7                     | 12/17/2014     |
| 161 | Cadmium Fluoride  | 7790-79-6                     | 12/17/2014     |
| 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters: 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and pptyl diesters with ≥0.3% of dihexyl phthalate (EC No. 201-559-5)                            | 68515-51-5                    | 6/15/2015      |
| 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] | --                            | 6/15/2015      |
| 164 | 1,3-Propanesultone  | 1120-71-4                     | 12/17/2015     |
| 165 | 2,4-Di-tert-butyl-6-5-(5-chlorobenzotriazol-2-yl)phenol (UV-327)  | 3864-99-1                     | 12/17/2015     |
| 166 | 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)phenol (UV-350)  | 36437-37-3                    | 12/17/2015     |
| 167 | Nitrobenzene  | 98-95-3                       | 12/17/2015     |
| 168 | Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-heptafluorodecafluorononanoic acid)  | 375-95-1;21049-39-8;4149-60-4 | 12/17/2015     |
| 169 | Benzo[def]chrysene (Benzo(a)pyrene  | 50-32-8                       | 6/20/2016      |
| 170 | 4,4'-Isopropylidenediphenol (Bisphenol A)   | 80-05-7                       | 1/12/2017      |
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts  | 335-76-2                      | 1/12/2017      |
| 172 | p-(1,1-Dimethylpropyl)phenol  | 80-46-6                       | 1/12/2017      |
| 173 | 4-Heptylphenol, branched and linear   |                               | 1/12/2017      |

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