

## REACH CERTIFICATE OF COMPLIANCE:

In compliance with REACH Directives which is the European Community Regulation on chemicals and their safe use (EC Regulation No. 1907/2006), Abracon LLC. assures its customers that all Abracon products meet the following requirements pertaining to the 240 SVHCs (Substances of Very High Concern) - Candidate list specified as the below table.

The Candidate list is also published at:

<http://echa.europa.eu/web/guest/candidate-list-table>

Abracon LLC. certifies that some products do contain the Substances of Very High Concern (SVHC's). It should be noted that SVHC items are not banned from inclusion but are Reportable per current REACH regulations.

There are some Ceramic package Crystals that are using over 0.1% w/w of the Reportable Substances Diboron Trioxide, and Lead Oxide in Sealing Glass material: **ABM8G, ABM8GAIG, ABM3, ABM3AIG, ABM7, ABM2, ABC2, 257G, D455K.**

**ABLS, ABLS2, ABLSG, ABU, AEAC, E1WS, E1S, HC49USM** and **ABMC2** are using over 0.1% w/w of the Reportable Substances Diboron Trioxide in Sealing Glass material.

**E1S** series are using over 0.1% of the Reportable Substance 2-Ethoxyethyl acetate in adhesive resin.

**EQxx** some series are using over 0.1% of the Reportable Substance Bisphenol A in Epoxy Resin.

**ARJ** some series are using over 0.1% of the Reportable Substance Hexahydromethylphthalic anhydride in the Epoxy Resin of the LED.

**ABS25, ABS13, AB26TRQ, AB26TRB, ARJ, 414LF, EH, E1WS, FKFS, FSRLE, AETC, WCSMC, AEAC, APAMxx, PRO-EX-286** are using over 0.1%w/w of the Reportable Substance Lead in Alloying, Solder or/and Plating.

Dip type ceramic components includes MHz ceramic resonators, filters: **HWZT, AWCR, AWSCR, AWSZT, WC146SM, 745,610-35, 954, 960, AFC-Series** are using > 0.1% w/w of the Reportable Substance Lead Oxide/Tetroxide in Piezoelectric Ceramic.

**SMD** type ceramic components includes MHz ceramic resonators, filters: **ASFC-Series** are using > 0.1% w/w Reportable Substance Boric acid in glass of silver paste and using >0.1% w/w Reportable Substance Lead Oxide/Tetroxide in Piezoelectric Ceramic.

Table 1: 240 SVHC Item List

| #  | Substance Name   | CAS #      | Substance Threshold Limit in ppm | Date of inclusion |
|----|--|------------|----------------------------------|-------------------|
| 1  | Anthracene   | 120-12-7   | 1000                             | 2008.10.28        |
| 2  | 4,4'- Diaminodiphenylmethane   | 101-77-9   | 1000                             | 2008.10.28        |
| 3  | Dibutyl phthalate  | 84-74-2    | 1000                             | 2008.10.28        |
| 4  | Cobalt dichloride  | 7646-79-9  | 1000                             | 2008.10.28        |
| 5  | Diarsenic pentaoxide   | 1303-28-2  | 1000                             | 2008.10.28        |
| 6  | Diarsenic trioxide   | 1327-53-3  | 1000                             | 2008.10.28        |
| 7  | Sodium dichromate, dihydrate   | 10588-01-9 | 1000                             | 2008.10.28        |
| 8  | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)   | 81-15-2    | 1000                             | 2008.10.28        |
| 9  | Bis (2-ethyl(hexyl)phthalate) (DEHP)   | 117-81-7   | 1000                             | 2008.10.28        |
| 10 | Hexabromocyclododecane (HBCDD)   | 3194-55-6  | 1000                             | 2008.10.28        |
| 11 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)  | 85535-84-8 | 1000                             | 2008.10.28        |
| 12 | Bis(tributyltin) oxide,hexabutyldistannoxane   | 56-35-9    | 1000                             | 2008.10.28        |
| 13 | Lead hydrogen arsenate   | 7784-40-9  | 1000                             | 2008.10.28        |
| 14 | Triethyl arsenate  | 15606-95-8 | 1000                             | 2008.10.28        |
| 15 | Benzyl butyl phthalate   | 85-68-7    | 1000                             | 2008.10.28        |
| 16 | 2,4-Dinitrotoluene Aluminosilicate Refractory Ceramic Fibres<br>Note: this substance is listed again on 2012.12.19 | 121-14-2   | 1000                             | 2010.1.13         |
| 17 | Anthracene oil   | 90640-80-5 | 1000                             | 2010.1.13         |
| 18 | Anthracene oil, anthracene paste   | 90640-81-6 | 1000                             | 2010.1.13         |

|    |   |                         |      |            |
|----|---|-------------------------|------|------------|
| 19 | Anthracene oil, anthracene paste, anthracene fraction   | 91995-15-2              | 1000 | 2010.1.13  |
| 20 | Anthracene oil, anthracene paste, distn. lights   | 91995-17-4              | 1000 | 2010.1.13  |
| 21 | Anthracene oil, anthracene-low  | 90640-82-7              | 1000 | 2010.1.13  |
| 22 | Diisobutyl phthalate  | 84-69-5                 | 1000 | 2010.1.13  |
| 23 | Lead chromate   | 7758-97-6               | 1000 | 2010.1.13  |
| 24 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)   | 12656-85-8              | 1000 | 2010.1.13  |
| 25 | Lead sulfochromate yellow (C.I. Pigment Yellow 34)  | 1344-37-2               | 1000 | 2010.1.13  |
| 26 | Pitch, coal tar, high temp.   | 65996-93-2              | 1000 | 2010.1.13  |
| 27 | Tris (2-chloroethyl) phosphate Zirconia Aluminosilicate Refractory Ceramic Fibres<br>Note: this substance is listed again below on 2012.12.19 | 115-96-8                | 1000 | 2010.1.13  |
| 28 | Acrylamide  | 79-06-1                 | 1000 | 2010.3.30  |
| 29 | Trichloroethylene   | 79-01-6                 | 1000 | 2010.6.18  |
| 30 | Boric acid  | 10043-35-3              | 1000 | 2010.6.18  |
| 31 | Disodium tetraborate, anhydrous   | 1330-43-4               | 1000 | 2010.6.18  |
| 32 | Tetraboron disodium heptaoxide, hydrate   | 12267-73-1              | 1000 | 2010.6.18  |
| 33 | Sodium chromate   | 7775-11-3               | 1000 | 2010.6.18  |
| 34 | Potassium chromate  | 7789-00-6               | 1000 | 2010.6.18  |
| 35 | Ammonium dichromate   | 7789-09-5               | 1000 | 2010.6.18  |
| 36 | Potassium dichromate  | 7778-50-9               | 1000 | 2010.6.18  |
| 37 | 2-Ethoxyethanol   | 110-80-5                | 1000 | 2010.12.15 |
| 38 | 2-Methoxyethanol  | 109-86-4                | 1000 | 2010.12.15 |
| 39 | Chromic acid  | 7738-94-5               | 1000 | 2010.12.15 |
| 40 | Chromium trioxide   | 1333-82-0               | 1000 | 2010.12.15 |
| 41 | Cobalt (II) carbonate   | 513-79-1                | 1000 | 2010.12.15 |
| 42 | Cobalt (II) diacetate   | 71-48-7                 | 1000 | 2010.12.15 |
| 43 | Cobalt (II) dinitrate   | 10141-05-6              | 1000 | 2010.12.15 |
| 44 | Cobalt (II) sulphate  | 10124-43-3              | 1000 | 2010.12.15 |
| 45 | 1,2,3-Trichloropropane  | 96-18-4                 | 1000 | 2011.6.20  |
| 46 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich  | 71888-89-6              | 1000 | 2011.6.20  |
| 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters   | 68515-42-4              | 1000 | 2011.6.20  |
| 48 | 1-Methyl-2-pyrrolidone  | 872-50-4                | 1000 | 2011.6.20  |
| 49 | 2-Ethoxyethyl acetate   | 111-15-9                | 1000 | 2011.6.20  |
| 50 | Hydrazine   | 302-01-2 /<br>7803-57-8 | 1000 | 2011.6.20  |
| 51 | Strontium chromate  | 7789-06-2               | 1000 | 2011.6.20  |
| 52 | Dichromium tris(chromate)   | 24613-89-6              | 1000 | 2011.12.19 |
| 53 | Potassium hydroxyoctaoxodizincatedi-chromate  | 11103-86-9              | 1000 | 2011.12.19 |
| 54 | Pentazinc chromate octahydroxide  | 49663-84-5              | 1000 | 2011.12.19 |
| 55 | Aluminosilicate Refractory Ceramic Fibres (RCF)   | -                       | 1000 | 2011.12.19 |
| 56 | Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)   | -                       | 1000 | 2011.12.19 |
| 57 | Formaldehyde, oligomeric reaction products with aniline (technical MDA)   | 25214-70-4              | 1000 | 2011.12.19 |
| 58 | Bis(2-methoxyethyl) phthalate   | 117-82-8                | 1000 | 2011.12.19 |
| 59 | 2-Methoxyaniline; o-Anisidine   | 90-04-0                 | 1000 | 2011.12.19 |
| 60 | 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)   | 140-66-9                | 1000 | 2011.12.19 |
| 61 | 1,2-Dichloroethane  | 107-06-2                | 1000 | 2011.12.19 |
| 62 | Bis(2-methoxyethyl) ether   | 111-96-6                | 1000 | 2011.12.19 |
| 63 | Arsenic acid  | 7778-39-4               | 1000 | 2011.12.19 |
| 64 | Calcium arsenate  | 7778-44-1               | 1000 | 2011.12.19 |
| 65 | Trilead diarsenate  | 3687-31-8               | 1000 | 2011.12.19 |
| 66 | N, N-dimethylacetamide (DMAC)   | 127-19-5                | 1000 | 2011.12.19 |
| 67 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)  | 101-14-4                | 1000 | 2011.12.19 |
| 68 | Phenolphthalein   | 77-09-8                 | 1000 | 2011.12.19 |

|     |   |   |      |            |
|-----|---|---|------|------------|
| 69  | Lead azide Lead diazide   | 13424-46-9  | 1000 | 2011.12.19 |
| 70  | Lead styphnate  | 15245-44-0  | 1000 | 2011.12.19 |
| 71  | Lead dipicrate  | 6477-64-1   | 1000 | 2011.12.19 |
| 72  | 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)  | 112-49-2  | 1000 | 2012.06.18 |
| 73  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)   | 110-71-4  | 1000 | 2012.06.18 |
| 74  | Diboron trioxide  | 1303-86-2   | 1000 | 2012.06.18 |
| 75  | Formamide   | 75-12-7   | 1000 | 2012.06.18 |
| 76  | Lead (II) bis(methanesulfonate)   | 17570-76-2  | 1000 | 2012.06.18 |
| 77  | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)   | 2451-62-9   | 1000 | 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  | 1000 | 2012.06.18 |
| 79  | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)  | 90-94-8   | 1000 | 2012.06.18 |
| 80  | N, N, N', N'-tetramethyl-4,4'-methylenedianiline (Michler's base)   | 101-61-1  | 1000 | 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  | 1000 | 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   | 1000 | 2012.06.18 |
| 83  | $\alpha$ , $\alpha$ -Bis[4-(dimethylamino) phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)  | 6786-83-0   | 1000 | 2012.06.18 |
| 84  | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol   | 561-41-1  | 1000 | 2012.06.18 |
| 85  | Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)  | 1163-19-5   | 1000 | 2012.12.19 |
| 86  | Pentacosafuorotridecanoic acid  | 72629-94-8  | 1000 | 2012.12.19 |
| 87  | Tricosafuorododecanoic acid   | 307-55-1  | 1000 | 2012.12.19 |
| 88  | Henicosafuoroundecanoic acid  | 2058-94-8   | 1000 | 2012.12.19 |
| 89  | Heptacosafuorotetradecanoic acid  | 376-06-7  | 1000 | 2012.12.19 |
| 90  | Diazene-1,2-dicarboxamide (C, C'-azodi(formamide))  | 123-77-3  | 1000 | 2012.12.19 |
| 91  | Cyclohexane -1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3]<br>[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                   | 1000 | 2012.12.19 |
| 92  | Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic [3], Hexahydro-3-methylphthalic anhydride [4]<br>[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 | 1000 | 2012.12.19 |
| 93  | 4- Nonylphenol, branched and linear<br>[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]  | -   | 1000 | 2012.12.19 |
| 94  | 4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers, and homologues]   | -   | 1000 | 2012.12.19 |
| 95  | Methoxyacetic acid  | 625-45-6  | 1000 | 2012.12.19 |
| 96  | N, N-dimethylformamide  | 68-12-2   | 1000 | 2012.12.19 |
| 97  | Dibutyltin dichloride (DBTC)  | 683-18-1  | 1000 | 2012.12.19 |
| 98  | Lead monoxide (Lead oxide)  | 1317-36-8   | 1000 | 2012.12.19 |
| 99  | Orange lead (Lead tetroxide)  | 1314-41-6   | 1000 | 2012.12.19 |
| 100 | Lead bis(tetrafluoroborate)   | 13814-96-5  | 1000 | 2012.12.19 |
| 101 | Trilead bis(carbonate)dihydroxide   | 1319-46-6   | 1000 | 2012.12.19 |
| 102 | Lead titanium trioxide  | 12060-00-3  | 1000 | 2012.12.19 |
| 103 | Lead titanium zirconium oxide   | 12626-81-2  | 1000 | 2012.12.19 |
| 104 | Silicic acid, lead salt   | 11120-22-2  | 1000 | 2012.12.19 |
| 105 | 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  | 1000 | 2012.12.19 |
| 106 | 1-bromopropane (n-propyl bromide)   | 106-94-5  | 1000 | 2012.12.19 |
| 107 | Methyloxirane (Propylene oxide)   | 75-56-9   | 1000 | 2012.12.19 |
| 108 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | 84777-06-0  | 1000 | 2012.12.19 |
| 109 | Diisopentylphthalate (DIPP)   | 605-50-5  | 1000 | 2012.12.19 |
| 110 | N-pentyl-isopentylphthalate   | 776297-69-9   | 1000 | 2012.12.19 |

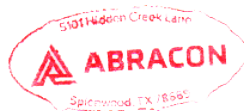
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|-----|--|-------------------------|------|------------|
| 111 | 1,2-diethoxyethane   | 629-14-1                | 1000 | 2012.12.19 |
| 112 | Acetic acid, lead salt, basic  | 51404-69-4              | 1000 | 2012.12.19 |
| 113 | Lead oxide sulfate   | 12036-76-9              | 1000 | 2012.12.19 |
| 114 | [Phthalato(2-)]dioxotrilead  | 69011-06-9              | 1000 | 2012.12.19 |
| 115 | Dioxobis(stearato)trilead  | 12578-12-0              | 1000 | 2012.12.19 |
| 116 | Fatty acids, C16-18, lead salts  | 91031-62-8              | 1000 | 2012.12.19 |
| 117 | Lead cyanamide   | 20837-86-9              | 1000 | 2012.12.19 |
| 118 | Lead dinitrate   | 10099-74-8              | 1000 | 2012.12.19 |
| 119 | Pentalead tetraoxide sulphate  | 12065-90-6              | 1000 | 2012.12.19 |
| 120 | Pyrochlore, antimony lead yellow   | 8012-00-8               | 1000 | 2012.12.19 |
| 121 | Sulfurous acid, lead salt, dibasic   | 62229-08-7              | 1000 | 2012.12.19 |
| 122 | Tetraethyllead   | 78-00-2                 | 1000 | 2012.12.19 |
| 123 | Tetralead trioxide sulphate  | 12202-17-4              | 1000 | 2012.12.19 |
| 124 | Trilead dioxide phosphonate  | 12141-20-7              | 1000 | 2012.12.19 |
| 125 | Furan  | 110-00-9                | 1000 | 2012.12.19 |
| 126 | Diethyl sulphate   | 64-67-5                 | 1000 | 2012.12.19 |
| 127 | Dimethyl sulphate  | 77-78-1                 | 1000 | 2012.12.19 |
| 128 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine   | 143860-04-2             | 1000 | 2012.12.19 |
| 129 | Dinoseb (6-sec-butyl-2,4-dinitrophenol)  | 88-85-7                 | 1000 | 2012.12.19 |
| 130 | 4,4'-methylenedi-o-toluidine   | 838-88-0                | 1000 | 2012.12.19 |
| 131 | 4,4'-oxydianiline and its salts  | 101-80-4                | 1000 | 2012.12.19 |
| 132 | 4-aminoazobenzene  | 60-09-3                 | 1000 | 2012.12.19 |
| 133 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine)  | 95-80-7                 | 1000 | 2012.12.19 |
| 134 | 6-methoxy-m-toluidine (p-cresidine)  | 120-71-8                | 1000 | 2012.12.19 |
| 135 | Biphenyl-4-ylamine   | 92-67-1                 | 1000 | 2012.12.19 |
| 136 | o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]   | 97-56-3                 | 1000 | 2012.12.19 |
| 137 | o-toluidine  | 95-53-4                 | 1000 | 2012.12.19 |
| 138 | N-methylacetamide  | 79-16-3                 | 1000 | 2012.12.19 |
| 139 | Cadmium  | 7440-43-9               | 1000 | 2013.06.20 |
| 140 | Ammonium pentadecafluorooctanoate (APFO)   | 3825-26-1               | 1000 | 2013.06.20 |
| 141 | Pentadecafluorooctanoic acid (PFOA)  | 335-67-1                | 1000 | 2013.06.20 |
| 142 | Dipentyl phthalate (DPP)   | 131-18-0                | 1000 | 2013.06.20 |
| 143 | 4-Nonylphenol, branched and linear, ethoxylated  | -                       | 1000 | 2013.06.20 |
| 144 | Cadmium oxide  | 1306-19-0               | 1000 | 2013.06.20 |
| 145 | Cadmium sulphide   | 1306-23-6               | 1000 | 2013.12.16 |
| 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               | 1000 | 2013.12.16 |
| 147 | Dihexyl phthalate  | 84-75-3                 | 1000 | 2013.12.16 |
| 148 | Imidazolidine-2-thione; (2-imidazoline-2-thiol)  | 96-45-7                 | 1000 | 2013.12.16 |
| 149 | Trixylyl phosphate   | 25155-23-1              | 1000 | 2013.12.16 |
| 150 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)  | 573-58-0                | 1000 | 2013.12.16 |
| 151 | Lead di(acetate)   | 301-04-2                | 1000 | 2013.12.16 |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 68515-50-4              | 1000 | 2014.06.11 |
| 153 | Sodium perborate; perboric acid, sodium salt   | N/A                     | 1000 | 2014.06.11 |
| 154 | Sodium peroxometaborate  | 7632-04-4               | 1000 | 2014.06.11 |
| 155 | Cadmium chloride   | 10108-64-2              | 1000 | 2014.06.11 |
| 156 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1              | 1000 | 2014-12-17 |
| 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)   | 3846-71-7               | 1000 | 2014-12-17 |
| 158 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 15571-58-1              | 1000 | 2014-12-17 |
| 159 | Cadmium fluoride   | 7790-79-6               | 1000 | 2014-12-17 |
| 160 | Cadmium sulphate   | 10124-3-4<br>31119-53-6 | 1000 | 2014-12-17 |


|     |  |                                     |      |            |
|-----|--|-------------------------------------|------|------------|
| 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) | -                                   | 1000 | 2014-12-17 |
| 162 | 1,2-Benzendicarboxylic acid, di-C6-10-alkyl esters; 1,2- Benzendicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)   | 68515-51-5<br>68648-93-1            | 1000 | 2015-06-15 |
| 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]                        | -                                   | 1000 | 2015-06-15 |
| 164 | Nitrobenzene –   | 98-95-3                             | 1000 | 2015-12-17 |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)  | 3864-99-1                           | 1000 | 2015-12-17 |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)  | 36437-37-3                          | 1000 | 2015-12-17 |
| 167 | 1,3-propanesultone   | 1120-71-4                           | 1000 | 2015-12-17 |
| 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts  | 375-95-1<br>21049-39-8<br>4149-60-4 | 1000 | 2015-12-17 |
| 169 | Benzo (def)chrysene  | 50-32-8                             | 1000 | 2016-06-20 |
| 170 | 4,4'- Isopropylidenediphenol - Bisphenol A; BPA -  | 80-05-7                             | 1000 | 2017-01-12 |
| 171 | 4-heptylphenol, branched and linear  | -                                   | 1000 | 2017-01-12 |
| 172 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts   | 335-76-2<br>3830-45-3<br>3108-42-7  | 1000 | 2017-01-12 |
| 173 | p-(1,1-dimethylpropyl) phenol  | 80-46-6                             | 1000 | 2017-01-12 |
| 174 | Perfluorohexane-1-sulphonic acid and its salts - PFHxS   | -                                   | 1000 | 2017-07-07 |
| 175 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) with >0.1% w/w 4-heptylphenol branched and linear (4-HPbl)   | -                                   | 1000 | 2018-01-15 |
| 176 | Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-7,15diene (“Dechlorane Plus”™)<br>Covering any of its individual anti- and syn-isomers or any combination thereof  | -                                   | 1000 | 2018-01-15 |
| 177 | Chrysene   | 218-01-9,<br>1719-03-5              | 1000 | 2018-01-15 |
| 178 | Cadmium nitrate  | 10022-68-1,<br>10325-94-7           | 1000 | 2018-01-15 |
| 179 | Cadmium hydroxide  | 21041-95-2                          | 1000 | 2018-01-15 |
| 180 | Cadmium carbonate  | 513-78-0                            | 1000 | 2018-01-15 |
| 181 | Benz[a]anthracene  | 56-55-3,171<br>8-53-2               | 1000 | 2018-01-15 |
| 182 | Benzene-1,2,4-tricarboxylic 1,2 anhydride (trimellitic anhydride) (TMA)  | 552-30-7                            | 1000 | 2018-06-27 |
| 183 | Dicyclohexyl phthalate (DCHP)  | 84-61-7                             | 1000 | 2018-06-27 |
| 184 | Terphenyl, hydrogenated  | 61788-32-7                          | 1000 | 2018-06-27 |
| 185 | Octamethylcyclotetrasiloxane(D4)   | 556-67-2                            | 1000 | 2018-06-27 |
| 186 | Lead   | 7439-92-1                           | 1000 | 2018-06-27 |
| 187 | Ethylenediamine  | 107-15-3                            | 1000 | 2018-06-27 |
| 188 | Dodecamethylcyclohexasiloxane(D6)  | 540-97-6                            | 1000 | 2018-06-27 |
| 189 | Disodium octaborate  | 540-97-6                            | 1000 | 2018-06-27 |
| 190 | Decamethylcyclopentasiloxane (D5)  | 541-02-6                            | 1000 | 2018-06-27 |
| 191 | Benzo[ghi]perylene   | 191-24-2                            | 1000 | 2018-06-27 |
| 192 | Pyrene   | 129-00-0                            | 1000 | 2019-01-15 |
| 193 | Phenanthrene   | 85-01-8                             | 1000 | 2019-01-15 |
| 194 | Fluoranthene   | 206-44-0                            | 1000 | 2019-01-15 |
| 195 | Benzo(k) Fluoranthene  | 207-08-9                            | 1000 | 2019-01-15 |
| 196 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane  | 6807-17-6                           | 1000 | 2019-01-15 |
| 197 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)  | 15087-24-8                          | 1000 | 2019-01-15 |
| 198 | 2-methoxyethyl acetate   | 110-49-6                            | 1000 | 2019-07-16 |

|     |   |  |       |            |
|-----|---|--|-------|------------|
| 199 | Tris (4-nonylphenyl, branched and linear) phosphite (TNPP) with >-0.1% w/w of 4-nonylphenol   | -                                      | 1000  | 2019-07-16 |
| 200 | 2,3,3,3 - tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts, and its acyl halides (covering any of their individual isomers and combinations thereof)   | -                                      | 10000 | 2019-07-16 |
| 201 | 4-tert-butylphenol  | 98-54-4                                | 1000  | 2019-07-16 |
| 202 | 2-benzyl-2-dimethylsmino-4'-morpholinobutyrophenone   | 119313-12-1                            | 1000  | 2020-01-16 |
| 203 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one  | 71868-10-5                             | 1000  | 2020-01-16 |
| 204 | Diisohexyl phthalate  | 71850-09-4                             | 1000  | 2020-01-16 |
| 205 | Perfluorobutane Sulfonic acid (PFBS) and its salts  | -                                      | 1000  | 2020-01-16 |
| 206 | Dibutylbis(pentane-2,4-dionato-O, O')tin  | 22673-19-4                             | 1000  | 2020-06-25 |
| 207 | Butyl 4-hydroxybenzoate   | 94-26-8                                | 1000  | 2020-06-25 |
| 208 | 2-methylimidazole   | 693-98-1                               | 1000  | 2020-06-25 |
| 209 | 1-vinylimidazole  | 1072-63-5                              | 1000  | 2020-06-25 |
| 210 | Bis(2-(2-methoxyethoxy)ethyl)ether  | 143-24-8                               | 1000  | 2021-01-19 |
| 211 | Diocetyl tin dilaurate, stannane, dioctyl-, bis(cocoacyloxy) derivs., and any other stannane, dioctyl-, bis (fatty acyloxy) derivs. Wherein C12 is the predominant carbo number of the fatty acyloxy moiety.<br>Diocetyl tin dilaurate; stannane, dioctyl-, bis(cocoacyloxy) derivs. Dioctyl tin dilaurate Stannane, dioctyl-, bis(coco acyloxy) derivs   | -<br>3648-18-8<br>91648-39-4           | 1000  | 2021-01-19 |
| 212 | 2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers   | -                                      | 1000  | 2021-07-08 |
| 213 | Orthoboric acid, sodium salt  | 13840-56-7                             | 1000  | 2021-07-08 |
| 214 | 2,2-bis(bromomethyl)propane-1,3-diol (BMP).<br>2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)<br>2,3-dibromo-1-propanol (2,3-DBPA)  | 3296-90-0,<br>36483-57-5,<br>1522-92-5 | 1000  | 2021-07-08 |
| 215 | Glutaral  | 111-30-8                               | 1000  | 2021-07-08 |
| 216 | 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)   | -                                      | 1000  | 2021-07-08 |
| 217 | Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)   | -                                      | 1000  | 2021-07-08 |
| 218 | 1,4-dioxane   | 123-91-1                               | 1000  | 2021-07-08 |
| 219 | 4,4'-(1-methylpropylidene) bisphenol  | 77-40-7                                | 1000  | 2021-07-08 |
| 220 | tris(2-methoxyethoxy) vinylsilane   | 1067-53-4                              | 1000  | 2022-01-17 |
| 221 | S-(tricyclo[5.2.1.0' <sup>2</sup> ,6]deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate  | 255881-94-8                            | 1000  | 2022-01-17 |
| 222 | 6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol   | 119-47-1                               | 1000  | 2022-01-17 |
| 223 | (±)-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 | -                                      | 1000  | 2022-01-17 |
| 224 | N-(hydroxymethyl)acrylamide   | 924-42-5                               | 1000  | 2022-06-10 |
| 225 | 1,1'-[ethane-1,2-diylbisoxo]bis[2,4,6-tribromobenzene]  | 37853-59-1                             | 1000  | 2023-01-17 |
| 226 | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol  | 79-94-7                                | 1000  | 2023-01-17 |

|     |  |             |      |            |
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| 227 | 4,4'-sulphonyldiphenol   | 80-09-1     | 1000 | 2023-01-17 |
| 228 | Barium diboron tetraoxide  | 13701-59-2  | 1000 | 2023-01-17 |
| 229 | Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof   | -           | 1000 | 2023-01-17 |
| 230 | Isobutyl 4-hydroxybenzoate   | 4247-02-3   | 1000 | 2023-01-17 |
| 231 | Melamine   | 108-78-1    | 1000 | 2023-01-17 |
| 232 | Perfluoroheptanoic acid and its salts  | -           | 1000 | 2023-01-17 |
| 233 | reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine | -           | 1000 | 2023-01-17 |
| 234 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide  | 75980-60-8  | 1000 | 2023-06-14 |
| 235 | Bis(4-chlorophenyl) sulphone   | 80-07-9     | 1000 | 2023-06-14 |
| 236 | Phenol, methylstyrenated   | 68512-30-1  | 1000 | 2024-01-23 |
| 237 | Blumetrizole (UV-326)  | 3896-11-5   | 1000 | 2024-01-23 |
| 238 | 2-(dimethylamino)-2-((4-methylphenyl) methyl)-1-(4-(morpholin-4-yl) phenyl] butan-1-one  | 119344-86-4 | 1000 | 2024-01-23 |
| 239 | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl) phenol (UV-329)  | 3147-75-9   | 1000 | 2024-01-23 |
| 240 | 2,4,6-tri-tert-butylphenol   | 723-26-3    | 1000 | 2024-01-23 |

Signature:  Date: 01-24-2024  
Name: Leo Santillan  
Title: Quality Engineer & Environmental  
Compliance Coordinator



Signature:  Date: 01-24-2024  
Name: Reuben Quintanilla  
Title: Quality & Process Improvement Manager