

ANTENNAS AND CABLES

REACH REPORT



Last updated
June 23, 2015

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1 General Information

1.1 Summary

The test results below show that the antennas and cables do not contain any of the 161 chemicals that are classified by REACH as Substances of Very High Concern (SVHC).

1.2 Date of Test

March 13, 2015

1.3 Test Laboratory

The chemical testing information was compiled from component / material reports.

1.4 Description of Sample

This testing was performed on the below LSR part numbers:

Antenna P/N:

001-0001 – 2.4 GHz Dipole Antenna

001-0002 – 900MHz Dipole Antenna

001-0009 – 2.4 and 5.5 GHz Dipole Antenna

001-0010 – 2.4GHz Dipole Antenna IP67

001-0011 – 900MHz Dipole Antenna IP67

001-0012 – 2.4 & 5.5 GHz Dipole Antenna IP67

001-0014 – 2.4 GHz Flex PIFA Antenna

001-0015 – 2.4 GHz FlexNotch Antenna

001-0016 – 2.4 and 5.5 GHz FlexPIFA Antenna

Cables P/N:

080-0001 – U.FL to SMA Cable

080-0013 - Cable, U.FL to SMA Bulkhead, 1.13mm dia, 105mm long, O-Ring

080-0014 - Cable, U.FL to SMA Bulkhead, 1.13mm dia, 210mm long, O-Ring

1.5 Definitions

ppm = Parts per million

ND = Not Detected. The result is below the Method Detection Limit.

1.6 Revision History

| Date | ECN | Change Description | Revision |
|-----------|----------|--------------------|----------|
| 6/23/2015 | 131-2015 | Initial Release | 1.0 |
| | | | |
| | | | |
| | | | |

Table 1 Revision History

2 Chemical Analysis Results

| No | Test Item(s) | EC No. | CAS No. | Results Content (ppm) |
|----|--|------------------------|--------------------------|-----------------------|
| 1 | Bis (2-ethylhexyl)phthalate (DEHP) | 204-211-0 | 117-81-7 | ND |
| 2 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 239-622-4 | 15571-58-1 | ND |
| 3 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 223-346-6 | 3846-71-7 | ND |
| 4 | 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) | - | - | ND |
| 5 | Cadmium fluoride | 232-222-0 | 7790-79-6 | ND |
| 6 | Cadmium sulphate | 233-331-6 | 10124-36-4 31119-53-6 | ND |
| 7 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 247-384-8 | 25973-55-1 | ND |
| 8 | Sodium perborate,perboric acid, sodium salt | 239-172-9 234-390-0 | 15120-21-5 | ND |
| 9 | Sodium peroxometaborate | 231-556-4 | 2093666 | ND |
| 10 | Cadmium chloride | 233-296-7 | 10108-64-2 | ND |
| 11 | 1,2-Benzenedicarboxylic acid, dihexylester, branched and linear | 271-093-5 | 68515-50-4 | ND |
| 12 | Lead di(acetate) | 206-104-4 | 301-04-2 | ND |
| 13 | Trixylyl phosphate | 246-677-8 | 25155-23-1 | ND |
| 14 | Imidazolidine-2-thione (2-imidazoline-2-thiol) | 202-506-9 | 96-45-7 | ND |
| 15 | Dihexyl phthalate | 201-559-5 | 84-75-3 | ND |

The information in this document is subject to change without notice.

| No | Test Item(s) | EC No. | CAS No. | Results Content (ppm) |
|----|---|-----------|------------|-----------------------|
| 16 | 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) | 217-710-3 | 1937-37-7 | ND |
| 17 | Cadmium sulphide | 215-147-8 | 1306-23-6 | ND |
| 18 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 209-358-4 | 573-58-0 | ND |
| 19 | Pentadecafluorooctanoic acid (PFOA) | 206-397-9 | 335-67-1 | ND |
| 20 | Dipentyl phthalate (DPP) | 205-017-9 | 131-18-0 | ND |
| 21 | Ammonium pentadecafluorooctanoate (APFO) | 223-320-4 | 3825-26-1 | ND |
| 22 | Cadmium oxide | 215-146-2 | 1306-19-0 | ND |
| 23 | Cadmium | 231-152-8 | 7440-43-9 | ND |
| 24 | 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] | - | - | ND |
| 25 | Tetraethyllead | 201-075-4 | 78-00-2 | ND |
| 26 | Diisopentylphthalate | 210-088-4 | 605-50-5 | ND |
| 27 | Henicosafuoroundecanoic acid | 218-165-4 | 2058-94-8 | ND |
| 28 | Lead titanium zirconium oxide | 235-727-4 | 12626-81-2 | ND |
| 29 | Methyloxirane (Propylene oxide) | 200-879-2 | 75-56-9 | ND |
| 30 | Heptacosafuorotetradecanoic acid | 206-803-4 | 376-06-7 | ND |
| 31 | o-Toluidine | 202-429-0 | 95-53-4 | ND |
| 32 | Dimethyl sulphate | 201-058-1 | 77-78-1 | ND |
| 33 | N-methylacetamide | 201-182-6 | 79-16-3 | ND |
| 34 | Biphenyl-4-ylamine | 202-177-1 | 92-67-1 | ND |
| 35 | Methoxyacetic acid | 210-894-6 | 625-45-6 | ND |
| 36 | [Phthalato(2-)]dioxotrilead | 273-688-5 | 69011-06-9 | ND |

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| No | Test Item(s) | EC No. | CAS No. | Results Content (ppm) |
|----|---|-----------|-------------|-----------------------|
| 37 | 4,4'-methylenedi-o-toluidine | 212-658-8 | 838-88-0 | ND |
| 38 | Pentalead tetraoxide sulphate | 235-067-7 | 12065-90-6 | ND |
| 39 | Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 201-861-7 | 88-85-7 | ND |
| 40 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] | - | - | ND |
| 41 | Furan | 203-727-3 | 110-00-9 | ND |
| 42 | Pyrochlore, antimony lead yellow | 232-382-1 | 8012-00-8 | ND |
| 43 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 421-150-7 | 143860-04-2 | ND |
| 44 | Diethyl sulphate | 200-589-6 | 64-67-5 | ND |
| 45 | Lead oxide sulfate | 234-853-7 | 12036-76-9 | ND |
| 46 | Lead bis(tetrafluoroborate) | 237-486-0 | 13814-96-5 | ND |
| 47 | N-pentyl-isopentylphthalate | - | 776297-69-9 | ND |
| 48 | Orange lead (lead tetroxide) | 215-235-6 | 1314-41-6 | ND |
| 49 | 4,4'-oxydianiline and its salts | 202-977-0 | 101-80-4 | ND |
| 50 | Pentacosafuorotridecanoic acid | 276-745-2 | 72629-94-8 | ND |
| 51 | Sulfurous acid, lead salt, dibasic | 263-467-1 | 62229-08-7 | ND |
| 52 | Trilead bis(carbonate) dihydroxide | 215-290-6 | 1319-46-6 | ND |
| 53 | Silicic acid, lead salt | 234-363-3 | 11120-22-2 | ND |
| 54 | Tetralead trioxide sulphate | 235-380-9 | 12202-17-4 | ND |
| 55 | Fatty acids, C16-18, lead salts | 292-966-7 | 91031-62-8 | ND |
| 56 | 1-bromopropane (n-propyl bromide) | 203-445-0 | 106-94-5 | ND |
| 57 | 6-methoxy-m-toluidine (p-cresidine) | 204-419-1 | 120-71-8 | ND |
| 58 | Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE) | 214-604-9 | 1163-19-5 | ND |
| 59 | 1,2-Diethoxyethane | 211-076-1 | 629-14-1 | ND |

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| No | Test Item(s) | EC No. | CAS No. | Results Content (ppm) |
|----|---|-------------------------------------|-------------------------------------|-----------------------|
| 60 | 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] | - | - | ND |
| 61 | Dibutyltin dichloride (DBTC) | 211-670-0 | 683-18-1 | ND |
| 62 | Tricosafuorododecanoic acid | 206-203-2 | 307-55-1 | ND |
| 63 | Acetic acid, lead salt, basic | 257-175-3 | 51404-69-4 | ND |
| 64 | 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] | 201-604-9 236-086-3 238-009-9 | 85-42-7 13149-00-3 14166-21-3 | ND |
| 65 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 202-453-1 | 95-80-7 | ND |
| 66 | 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] | 272-271-5 | 68784-75-8 | ND |
| 67 | o-aminoazotoluene | 202-591-2 | 97-56-3 | ND |
| 68 | N,N-dimethylformamide | 200-679-5 | 25174 | ND |
| 69 | Lead titanium trioxide | 235-038-9 | 12060-00-3 | ND |
| 70 | Dioxobis(stearato)trilead | 235-702-8 | 12578-12-0 | ND |
| 71 | Lead monoxide (lead oxide) | 215-267-0 | 1317-36-8 | ND |
| 72 | Trilead dioxide phosphonate | 235-252-2 | 12141-20-7 | ND |

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| No | Test Item(s) | EC No. | CAS No. | Results Content (ppm) |
|----|--|--|--|-----------------------|
| 73 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) | 204-650-8 | 123-77-3 | ND |
| 74 | 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] | 247-094-1 243-072-0 256-356-4 260-566-1 | 25550-51-0 19438-60-9 48122-14-1 57110-29-9 | ND |
| 75 | Lead dinitrate | 233-245-9 | 10099-74-8 | ND |
| 76 | Lead cyanamidate | 244-073-9 | 20837-86-9 | ND |
| 77 | 4-Aminoazobenzene | 200-453-6 | 22162 | ND |
| 78 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 284-032-2 | 84777-06-0 | ND |
| 79 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 202-027-5 | 90-94-8 | ND |
| 80 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme) | 203-977-3 | 112-49-2 | ND |
| 81 | 1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME) | 203-794-9 | 110-71-4 | ND |
| 82 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 202-959-2 | 101-61-1 | ND |
| 83 | Diboron trioxide | 215-125-8 | 1303-86-2 | ND |
| 84 | Formamide | 200-842-0 | 27735 | ND |
| 85 | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 219-943-6 | 2580-56-5 | ND |
| 86 | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) | 219-514-3 | 2451-62-9 | ND |
| 87 | Lead(II) bis(methanesulfonate) | 401-750-5 | 17570-76-2 | ND |

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| No | Test Item(s) | EC No. | CAS No. | Results Content (ppm) |
|----|---|-----------|------------|-----------------------|
| 88 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 209-218-2 | 561-41-1 | ND |
| 89 | α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 229-851-8 | 6786-83-0 | ND |
| 90 | 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC) | 423-400-0 | 59653-74-6 | ND |
| 91 | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 208-953-6 | 548-62-9 | ND |
| 92 | Potassium hydroxyoctaoxodizincatedichromate | 234-329-8 | 11103-86-9 | ND |
| 93 | Lead dipicrate | 229-335-2 | 6477-64-1 | ND |
| 94 | 2,2'-dichloro-4,4'-methylenedianiline | 202-918-9 | 101-14-4 | ND |
| 92 | Phenolphthalein | 201-004-7 | 28376 | ND |
| 96 | 2-Methoxyaniline, o-Anisidine | 201-963-1 | 90-04-0 | ND |
| 97 | Trilead diarsenate | 222-979-5 | 3687-31-8 | ND |

| No | Test Item(s) | EC No. | CAS No. | Results Content (ppm) |
|-----|--|-----------|------------|-----------------------|
| 98 | Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight | - | - | ND |
| 99 | Pentazinc chromate octahydroxide | 256-418-0 | 49663-84-5 | ND |
| 100 | 1,2-Dichloroethane | 203-458-1 | 107-06-2 | ND |
| 101 | Lead styphnate | 239-290-0 | 15245-44-0 | ND |
| 102 | Formaldehyde, oligomeric reaction products with aniline | 500-036-1 | 25214-70-4 | ND |
| 103 | Bis(2-methoxyethyl) phthalate | 204-212-6 | 117-82-8 | ND |
| 104 | Lead diazide, Lead azide | 236-542-1 | 13424-46-9 | ND |
| 105 | N,N-dimethylacetamide | 204-826-4 | 127-19-5 | ND |
| 106 | Calcium arsenate | 231-904-5 | 7778-44-1 | ND |
| 107 | Arsenic acid | 231-901-9 | 7778-39-4 | ND |
| 108 | Bis(2-methoxyethyl) ether | 203-924-4 | 111-96-6 | ND |
| 109 | 4-(1,1,3,3-tetramethylbutyl)phenol | 205-426-2 | 140-66-9 | ND |

| No | Test Item(s) | EC No. | CAS No. | Results Content (ppm) |
|-----|---|------------------------|-------------------------|-----------------------|
| 110 | Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm) c) alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight | - | - | ND |
| 111 | Dichromium tris(chromate) | 246-356-2 | 24613-89-6 | ND |
| 112 | Cobalt dichloride | 231-589-4 | 7646-79-9 | ND |
| 113 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters | 271-084-6 | 68515-42-4 | ND |
| 114 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich | 276-158-1 | 71888-89-6 | ND |
| 115 | 2-Ethoxyethyl acetate | 203-839-2 | 111-15-9 | ND |
| 116 | 1-Methyl-2-pyrrolidone (NMP) | 212-828-1 | 872-50-4 | ND |
| 117 | Strontium chromate | 232-142-6 | 2151068 | ND |
| 118 | 1,2,3-trichloropropane | 202-486-1 | 96-18-4 | ND |
| 119 | Hydrazine | 206-114-9 | 302-01-2 7803-57-8 | ND |
| 120 | Cobalt(II) diacetate | 200-755-8 | 71-48-7 | ND |
| 121 | Chromium trioxide | 215-607-8 | 1333-82-0 | ND |
| 122 | 2-Ethoxyethanol | 203-804-1 | 110-80-5 | ND |
| 123 | 2-Methoxyethanol | 203-713-7 | 109-86-4 | ND |
| 124 | Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid. | 231-801-5 236-881-5 | 7738-94-5 13530-68-2 | ND |
| 125 | Cobalt(II) carbonate | 208-169-4 | 513-79-1 | ND |
| 126 | Cobalt(II) dinitrate | 233-402-1 | 10141-05-6 | ND |
| 127 | Cobalt(II) sulphate | 233-334-2 | 10124-43-3 | ND |

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| No | Test Item(s) | EC No. | CAS No. | Results Content (ppm) |
|-----|---|------------------------|--|-----------------------|
| 128 | Tetraboron disodium heptaoxide, hydrate | 235-541-3 | 12267-73-1 | ND |
| 129 | Potassium chromate | 232-140-5 | 7789-00-6 | ND |
| 130 | Trichloroethylene | 201-167-4 | 28861 | ND |
| 131 | Boric acid | 233-139-2 234-343-4 | 10043-35-3 11113-50-1 | ND |
| 132 | Sodium chromate | 231-889-5 | 2146108 | ND |
| 133 | Potassium dichromate | 231-906-6 | 7778-50-9 | ND |
| 134 | Disodium tetraborate, anhydrous | 215-540-4 | 1303-96-4 1330-43-4 12179-04-3 | ND |
| 135 | Ammonium dichromate | 232-143-1 | 2151163 | ND |
| 136 | Acrylamide | 201-173-7 | 29007 | ND |
| 137 | Diisobutyl phthalate | 201-553-2 | 84-69-5 | ND |
| 138 | Tris(2-chloroethyl)phosphate | 204-118-5 | 115-96-8 | ND |
| 139 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) | 215-693-7 | 1344-37-2 | ND |
| 140 | Anthracene oil | 292-602-7 | 90640-80-5 | ND |
| 141 | Anthracene oil, anthracene paste | 292-603-2 | 90640-81-6 | ND |
| 142 | Anthracene oil, anthracene-low | 292-604-8 | 90640-82-7 | ND |
| 143 | Pitch, coal tar, high temp. | 266-028-2 | 65996-93-2 | ND |
| 144 | Lead chromate | 231-846-0 | 7758-97-6 | ND |
| 145 | Anthracene oil, anthracene paste, distr. lights | 295-278-5 | 91995-17-4 | ND |
| 146 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) | 235-759-9 | 12656-85-8 | ND |
| 147 | Anthracene oil, anthracene paste, anthracene fraction | 295-275-9 | 91995-15-2 | ND |
| 148 | 2,4-Dinitrotoluene | 204-450-0 | 121-14-2 | ND |
| 149 | Lead hydrogen arsenate | 232-064-2 | 7784-40-9 | ND |
| 150 | Dibutyl phthalate (DBP) | 201-557-4 | 84-74-2 | ND |
| 151 | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane | 247-148-4 221-695-9 | 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8 | ND |

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| No | Test Item(s) | EC No. | CAS No. | Results Content (ppm) |
|-----|---|-----------|---------------------|-----------------------|
| 152 | Diarsenic pentaoxide | 215-116-9 | 1303-28-2 | ND |
| 153 | Benzyl butyl phthalate (BBP) | 201-622-7 | 85-68-7 | ND |
| 154 | 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene) | 201-329-4 | 81-15-2 | ND |
| 155 | Bis(tributyltin) oxide (TBTO) | 200-268-0 | 56-35-9 | ND |
| 156 | Diarsenic trioxide | 215-481-4 | 1327-53-3 | ND |
| 157 | 4,4'- Diaminodiphenylmethane (MDA) | 202-974-4 | 101-77-9 | ND |
| 158 | Anthracene | 204-371-1 | 120-12-7 | ND |
| 159 | Sodium dichromate | 234-190-3 | 7789-12-010588-01-9 | ND |
| 160 | Triethyl arsenate | 427-700-2 | 15606-95-8 | ND |
| 161 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 287-476-5 | 85535-84-8 | ND |