

Test Report

No. SZR150310017001-2

Date: Mar. 17, 2015

Page 1 of 23

Applicant : JYH HSU(JEC) ELECTRONICS LTD.,

Address : Lu Chong Bridge Side, Dao Hou Rd, Cai Bai Country, DaoJiao Town,
Dong GuanCity, GuangDong.

The submitted sample and sample information was/were submitted and identified by/on the behalf of the client

Sample name : CERAMIC CAPACITOR

Type /model : /

Manufacturer : /

Sample received date : Mar. 10, 2015

Testing period : Mar. 10, 2015 to Mar. 17, 2015

Test requested : As specified by client, based on the list published by European chemicals agency (ECHA) for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the one hundred and sixty-one (161) Substances of Very High Concern (SVHC) in the submitted sample.

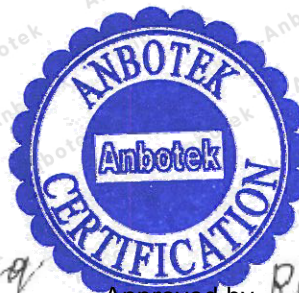
Test Method: Please refer to the following page(s).

Test Result(s): Please refer to the following page(s).

Summary:

According to the specified scope and analytical techniques, concentrations of SVHC are less than 0.1%(w/w) in the submitted sample.

PASS



Tested by Sasha Chen

Inspected by Jinshang

Approved by Rebec ca

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Tested Sample/Part Description:

A# Ceramic capacitor mixed

Test Method:

The first fifteen Substances of Very High Concern (Released in Oct, 2008)

| Code | Chemical Substance | Method |
|------|---|---------------------|
| 1 | Bis(tributyltin)oxide (TBTO) | EN ISO 17353, GC-MS |
| 2 | Diarsenic pentaoxide** | EPA 3052, ICP-OES |
| 3 | Diarsenic trioxide** | |
| 4 | Triethyl arsenate** | |
| 5 | Lead hydrogen arsenate** | |
| 6 | Cobalt dichloride** | |
| 7 | Sodium dichromate ** | |
| 8 | Anthracene | ZEK 01.4-08, GC-MS |
| 9 | 4,4'-Diaminodiphenylmethane (MDA) | EPA 3540C, GC-MS |
| 10 | Dibutyl phthalate (DBP) | |
| 11 | Benzyl butyl phthalate (BBP) | |
| 12 | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | |
| 13 | Bis (2-ethylhexyl)phthalate (DEHP) | |
| 14 | Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified | |
| 15 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | |

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The second thirteen Substances of Very High Concern (Released in Jan, 2010 and Mar, 2010)

| Code | Chemical Substance | Method |
|------|--|--------------------|
| 16 | Anthracene oil | ZEK 01.4-08, GC-MS |
| 17 | Anthracene oil, anthracene paste, distn. lights | |
| 18 | Anthracene oil, anthracene paste, anthracene fraction | |
| 19 | Anthracene oil, anthracene-low | |
| 20 | Anthracene oil, anthracene paste | |
| 21 | Pitch, coal tar, high temp. | Distillation |
| 22 | Acrylamide | EPA 3540C, HPLC |
| 23 | 2,4-Dinitrotoluene | EPA 3540C, GC-MS |
| 24 | Diisobutyl phthalate (DIBP) | |
| 25 | Lead chromate** | EPA 3052, ICP-OES |
| 26 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ** | |
| 27 | Lead sulphochromate yellow (C.I. Pigment Yellow 34) ** | |
| 28 | Tris(2-chloroethyl)phosphate | EPA 3540C, GC-MS |

The third eight Substances of Very High Concern (Released in Jun, 2010)

| Code | Chemical Substance | Method |
|------|---|---------------------------------------|
| 29 | Trichloroethylene | EPA 3540C, GC-FID |
| 30 | Boric acid** | EPA 3052, ICP-OES |
| 31 | Disodium tetraborate, anhydrous** | |
| 32 | Tetraboron disodium heptaoxide, hydrate** | |
| 33 | Sodium chromate** | IEC 62321, Annex B or Annex C, UV-VIS |
| 34 | Potassium chromate** | |
| 35 | Ammonium dichromate** | |
| 36 | Potassium dichromate** | |

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The fourth eight Substances of Very High Concern (Released in Dec, 2010)

| Code | Chemical Substance | Method | |
|------|--|--|------------------|
| 37 | Cobalt(II) sulphate** | EPA 3052, ICP-OES | |
| 38 | Cobalt(II) dinitrate** | | |
| 39 | Cobalt(II) carbonate** | | |
| 40 | Cobalt(II) diacetate** | | |
| 41 | 2-Methoxyethanol | EPA8260C,HS-GC-FID | |
| 42 | 2-Ethoxyethanol | | |
| 43 | Chromium trioxide** | IEC 62321, Annex B or Annex C , UV-VIS | |
| 44 | Acids generated from chromium trioxide and their oligomers | | Chromic acid** |
| | | | Dichromic acid** |
| | | Oligomers of chromic acid and dichromic acid** | |

The fifth seven Substances of Very High Concern (Released in Jun, 2011)

| Code | Chemical Substance | Method |
|------|---|--|
| 45 | 2-Ethoxyethyl acetate | EPA8260C,HS-GC-FID |
| 46 | Strontium chromate** | IEC 62321, Annex B or Annex C , UV-VIS |
| 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)* | EPA 3540C, GC-MS |
| 48 | Hydrazine | EPA8260C,HS-GC-FID |
| 49 | 1-Methyl-2-pyrrolidone | EPA 3540C, GC-FID |
| 50 | 1,2,3-Trichloropropane | |
| 51 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich(DIHP) | EPA 3540C, GC-MS |

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The sixth twenty Substances of Very High Concern (Released in Dec, 2011)

| Code | Chemical Substance | Method |
|------|---|--|
| 52 | Dichromium tris(chromate)** | IEC 62321, Annex B or Annex C , UV-VIS |
| 53 | Potassium hydroxyoctaoxodizincatedichromate** | |
| 54 | Pentazinc chromate octahydroxide** | |
| 55 | Aluminosilicate Refractory Ceramic Fibres (RCF)** | EPA 3052, ICP-OES |
| 56 | Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)** | |
| 57 | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | EPA 3540C, HPLC |
| 58 | Bis(2-methoxyethyl) phthalate (DMEP) | EPA 3540C, GC-MS |
| 59 | 2-Methoxyaniline; o-Anisidine | EPA 3540C, GC-MS |
| 60 | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) | EPA 3540C, HPLC |
| 61 | 1,2-Dichloroethane | EPA 3540C, GC-FID |
| 62 | Bis(2-methoxyethyl) ether | EPA8260C,HS-GC-FID |
| 63 | Arsenic acid** | EPA 3052, ICP-OES |
| 64 | Calcium arsenate** | |
| 65 | Trilead diarsenate** | |
| 66 | N,N-dimethylacetamide (DMAC) | EPA 3540C, HPLC |
| 67 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA) | EPA 3540C, GC-MS |
| 68 | Phenolphthalein | EPA 3540C, HPLC |
| 69 | Lead diazide Lead azide ** | EPA 3052, ICP-OES |
| 70 | Lead styphnate** | |
| 71 | Lead dipicrate** | |

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The seventh thirteen Substances of Very High Concern (Released in Jun, 2012)

| Code | Chemical Substance | Method |
|------|--|--------------------|
| 72 | 1,2-bis(2-methoxyethoxy)ethane(TEGDME; triglyme) | EPA8260C,HS-GC-FID |
| 73 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | |
| 74 | Diboron trioxide** | EPA 3052, ICP-OES |
| 75 | Formamide | EPA 3540C, HPLC |
| 76 | Lead(II) bis(methanesulfonate) ** | EPA 3052, ICP-OES |
| 77 | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) | EPA 3540C, HPLC |
| 78 | β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) | |
| 79 | 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) | |
| 80 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | |
| 81 | [4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) | |
| 82 | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) | |
| 83 | α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) | |
| 84 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol | |

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The eighth fifty-four Substances of Very High Concern (Released in Dec, 2012)

| Code | Chemical Substance | Method |
|------|--|---------------------|
| 85 | Bis(pentabromophenyl) ether (DecaBDE) | EPA 3540C, GC-MS |
| 86 | Pentacosafuorotridecanoic acid | EPA 3540C, LC-MS |
| 87 | Tricosafuorododecanoic acid | |
| 88 | Henicosafuoroundecanoic acid | |
| 89 | Heptacosafuorotetradecanoic acid | |
| 90 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues | EPA 3540C, HPLC |
| 91 | 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 | |
| 92 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | |
| 93 | Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) | EPA 3540C, GC-MS |
| 94 | Hexahydromethylphthalic anhy, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride | |
| 95 | Methoxy acetic acid | |
| 96 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | |
| 97 | Diisopentylphthalate (DIPP) | EPA 3540C, GC-MS |
| 98 | N-pentyl-isopentylphthalate | |
| 99 | 1,2-Diethoxyethane | EPA8260C,HS-GC-FID |
| 100 | N,N-dimethylformamide; dimethyl formamide | EPA 3540C, HPLC |
| 101 | Dibutyltin dichloride (DBTC) | EN ISO 17353, GC-MS |

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| Code | Chemical Substance | Method |
|------|---|-------------------|
| 102 | Acetic acid, lead salt, basic** | EPA 3052, ICP-OES |
| 103 | Basic lead carbonate (trilead bis(carbonate)dihydroxide) ** | |
| 104 | Lead oxide sulfate (basic lead sulfate) ** | |
| 105 | [Phthalato(2-)]dioxotrilead (dibasic lead phthalate) ** | |
| 106 | Dioxobis(stearato)trilead** | |
| 107 | Fatty acids, C16-18, lead salts** | |
| 108 | Lead bis(tetrafluoroborate) ** | |
| 109 | Lead cyanamate** | |
| 110 | Lead dinitrate** | |
| 111 | Lead oxide (lead monoxide) ** | |
| 112 | Lead tetroxide (orange lead) ** | |
| 113 | Lead titanium trioxide** | |
| 114 | Lead Titanium Zirconium Oxide** | |
| 115 | Pentalead tetraoxide sulphate** | |
| 116 | Pyrochlore, antimony lead yellow** | |
| 117 | Silicic acid, barium salt, lead-doped** | |
| 118 | Silicic acid, lead salt** | |
| 119 | Sulfurous acid, lead salt, dibasic** | |
| 120 | Tetraethyllead** | |
| 121 | Tetralead trioxide sulphate** | |
| 122 | Trilead dioxide phosphonate** | |
| 123 | Furan | EPA 3540C,GC-FID |
| 124 | Propylene oxide; 1,2-epoxypropane; methyloxirane | |
| 125 | Diethyl sulphate | |
| 126 | Dimethyl sulphate | |
| 127 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | EPA 3540C, GC-MS |

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| Code | Chemical Substance | Method |
|------|--|-------------------|
| 128 | Dinoseb | EPA 3540C, HPLC |
| 129 | 4,4'-methylenedi-o-toluidine | EPA 3540C, GC-MS |
| 130 | 4,4'-oxydianiline and its salts | |
| 131 | 4-Aminoazobenzene; 4-Phenylazoaniline | |
| 132 | 4-methyl-m-phenylenediamine (2,4-toluene-diamine) | |
| 133 | 6-methoxy-m-toluidine (p-cresidine) | |
| 134 | Biphenyl-4-ylamine | |
| 135 | o-aminoazotoluene | |
| 136 | o-Toluidine; 2-Aminotoluene | |
| 137 | N-methylacetamide | EPA 3540C, HPLC |
| 138 | 1-bromopropane; n-propyl bromide | EPA 3540C, GC-FID |

The ninth six Substances of Very High Concern (Released in Jun, 2013)

| Code | Chemical Substance | Method |
|------|--|-------------------|
| 139 | Cadmium ** | EPA 3052, ICP-OES |
| 140 | Cadmium oxide ** | |
| 141 | Dipentyl phthalate (DPP) | EPA 3540C, GC-MS |
| 142 | 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] | EPA 3540C, HPLC |
| 143 | Ammonium pentadecafluorooctanoate (APFO) | EPA 3540C, LC-MS |
| 144 | Pentadecafluorooctanoic acid (PFOA) | |

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The tenth seven Substances of Very High Concern (Released in Dec, 2013)

| Code | Chemical Substance | Method |
|------|-----------------------|-------------------|
| 145 | Cadmium sulphide** | EPA 3052, ICP-OES |
| 146 | Diethyl phthalate | EPA 3540C, GC-MS |
| 147 | C.I. Direct Red 28 | EPA 3540C, LC-MS |
| 148 | C.I. Direct Black 38 | |
| 149 | 2-imidazoline-2-thiol | |
| 150 | Lead di(acetate)** | EPA 3052, ICP-OES |
| 151 | Triethyl phosphate | EPA 3540C, GC-MS |

The eleventh four Substances of Very High Concern (Released in Jun, 2014)

| Code | Chemical Substance | Method |
|------|--|-------------------|
| 152 | 1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear | EPA 3540C, GC-MS |
| 153 | Cadmium chloride** | EPA 3052, ICP-OES |
| 154 | Sodium perborate; perboric acid, sodium salt** | |
| 155 | Sodium peroxometaborate** | |

The Twelfth six Substances of Very High Concern (Released in Dec, 2014)

| Code | Chemical Substance | Method |
|------|--|-------------------|
| 156 | Cadmium fluoride** | EPA 3052, ICP-OES |
| 157 | Cadmium sulphate** | |
| 158 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | EPA 3540C, HPLC |
| 159 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | |

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| Code | Chemical Substance | Method |
|------|--|------------------|
| 160 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | EPA 3540C, GC-MS |
| 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) | |

Report Result(s):

The first fifteen Substances of Very High Concern (Released in Oct, 2008)

| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|--|--------------------------|-----------|------------------|----------------|
| 1 | Bis(tributyltin)oxide (TBTO) | 56-35-9 | 200-268-0 | 0.020 | N.D. |
| 2 | Diarsenic pentaoxide** | 1303-28-2 | 215-116-9 | 0.020 | N.D. |
| 3 | Diarsenic trioxide** | 1327-53-3 | 215-481-4 | 0.020 | N.D. |
| 4 | Triethyl arsenate** | 15606-95-8 | 427-700-2 | 0.020 | N.D. |
| 5 | Lead hydrogen arsenate** | 7784-40-9 | 232-064-2 | 0.020 | N.D. |
| 6 | Cobalt dichloride** | 7646-79-9 | 231-589-4 | 0.020 | N.D. |
| 7 | Sodium dichromate ** | 7789-12-0, 10588-01-9 | 234-190-3 | 0.020 | N.D. |
| 8 | Anthracene | 120-12-7 | 204-371-1 | 0.020 | N.D. |
| 9 | 4,4'-Diaminodiphenylmethane (MDA) | 101-77-9 | 202-974-4 | 0.020 | N.D. |
| 10 | Dibutyl phthalate (DBP) | 84-74-2 | 201-557-4 | 0.020 | N.D. |
| 11 | Benzyl butyl phthalate (BBP) | 85-68-7 | 201-622-7 | 0.020 | N.D. |
| 12 | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 81-15-2 | 201-329-4 | 0.020 | N.D. |
| 13 | Bis (2-ethylhexyl)phthalate (DEHP) | 117-81-7 | 204-211-0 | 0.020 | N.D. |

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| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|---|---|-------------------------|------------------|----------------|
| 14 | Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified | 25637-99-4, 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8) | 247-148-4, 221-695-9 | 0.020 | N.D. |
| 15 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | 287-476-5 | 0.020 | N.D. |

The second thirteen Substances of Very High Concern (Released in Jan, 2010 and Mar, 2010)

| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|--|------------|-----------|------------------|----------------|
| 16 | Anthracene oil | 90640-80-5 | 292-602-7 | 0.020 | N.D. |
| 17 | Anthracene oil, anthracene paste, distn. lights | 91995-17-4 | 295-278-5 | 0.020 | N.D. |
| 18 | Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2 | 295-275-9 | 0.020 | N.D. |
| 19 | Anthracene oil, anthracene-low | 90640-82-7 | 292-604-8 | 0.020 | N.D. |
| 20 | Anthracene oil, anthracene paste | 90640-81-6 | 292-603-2 | 0.020 | N.D. |
| 21 | Pitch, coal tar, high temp. | 65996-93-2 | 266-028-2 | 0.020 | N.D. |
| 22 | Acrylamide | 79-06-1 | 201-173-7 | 0.020 | N.D. |
| 23 | 2,4-Dinitrotoluene | 121-14-2 | 204-450-0 | 0.020 | N.D. |
| 24 | Diisobutyl phthalate (DIBP) | 84-69-5 | 201-553-2 | 0.020 | N.D. |
| 25 | Lead chromate** | 7758-97-6 | 231-846-0 | 0.020 | N.D. |
| 26 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ** | 12656-85-8 | 235-759-9 | 0.020 | N.D. |
| 27 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) ** | 1344-37-2 | 215-693-7 | 0.020 | N.D. |
| 28 | Tris(2-chloroethyl)phosphate | 115-96-8 | 204-118-5 | 0.020 | N.D. |

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The third eight Substances of Very High Concern (Released in Jun, 2010)

| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|---|--|-------------------------|------------------|----------------|
| 29 | Trichloroethylene | 79-01-6 | 201-167-4 | 0.020 | N.D. |
| 30 | Boric acid** | 10043-35-3/ 11113-50-1 | 233-139-2/ 234-343-4 | 0.020 | N.D. |
| 31 | Disodium tetraborate, anhydrous** | 1330-43-4/ 12179-04-3/ 1303-96-4 | 215-540-4 | 0.020 | N.D. |
| 32 | Tetraboron disodium heptaoxide, hydrate** | 12267-73-1 | 235-541-3 | 0.020 | N.D. |
| 33 | Sodium chromate** | 7775-11-3 | 231-889-5 | 0.020 | N.D. |
| 34 | Potassium chromate** | 7789-00-6 | 232-140-5 | 0.020 | N.D. |
| 35 | Ammonium dichromate** | 7789-09-5 | 232-143-1 | 0.020 | N.D. |
| 36 | Potassium dichromate** | 7778-50-9 | 231-906-6 | 0.020 | N.D. |

The fourth eight Substances of Very High Concern (Released in Dec, 2010)

| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) | |
|------|--|--|------------|------------------|----------------|------|
| 37 | Cobalt(II) sulphate** | 10124-43-3 | 233-334-2 | 0.020 | N.D. | |
| 38 | Cobalt(II) dinitrate** | 10141-05-6 | 233-402-1 | 0.020 | N.D. | |
| 39 | Cobalt(II) carbonate** | 513-79-1 | 208-169-4 | 0.020 | N.D. | |
| 40 | Cobalt(II) diacetate** | 71-48-7 | 200-755-8 | 0.020 | N.D. | |
| 41 | 2-Methoxyethanol | 109-86-4 | 203-713-7 | 0.020 | N.D. | |
| 42 | 2-Ethoxyethanol | 110-80-5 | 203-804-1 | 0.020 | N.D. | |
| 43 | Chromium trioxide** | 1333-82-0 | 215-607-8 | 0.020 | N.D. | |
| 44 | Acids generated from chromium trioxide and their oligomers | Chromic acid** | 7738-94-5 | 231-801-5 | 0.020 | N.D. |
| | | Dichromic acid** | 13530-68-2 | 236-881-5 | 0.020 | N.D. |
| | | Oligomers of chromic acid and dichromic acid** | -- | -- | 0.020 | N.D. |

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The fifth seven Substances of Very High Concern (Released in Jun, 2011)

| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|---|------------------------|-----------|------------------|----------------|
| 45 | 2-Ethoxyethyl acetate | 111-15-9 | 203-839-2 | 0.020 | N.D. |
| 46 | Strontium chromate** | 7789-06-2 | 232-142-6 | 0.020 | N.D. |
| 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)* | 68515-42-4 | 271-084-6 | 0.020 | N.D. |
| 48 | Hydrazine | 7803-57-8/ 302-01-2 | 206-114-9 | 0.020 | N.D. |
| 49 | 1-Methyl-2-pyrrolidone | 872-50-4 | 212-828-1 | 0.020 | N.D. |
| 50 | 1,2,3-Trichloropropane | 96-18-4 | 202-486-1 | 0.020 | N.D. |
| 51 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich(DIHP) | 71888-89-6 | 276-158-1 | 0.020 | N.D. |

The sixth twenty Substances of Very High Concern (Released in Dec, 2011)

| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|---|------------|-----------|------------------|----------------|
| 52 | Dichromium tris(chromate)** | 24613-89-6 | 246-356-2 | 0.020 | N.D. |
| 53 | Potassium hydroxyoctaoxodizincatedichromate** | 11103-86-9 | 234-329-8 | 0.020 | N.D. |
| 54 | Pentazinc chromate octahydroxide** | 49663-84-5 | 256-418-0 | 0.020 | N.D. |
| 55 | Aluminosilicate Refractory Ceramic Fibres (RCF)** | -- | -- | 0.020 | N.D. |
| 56 | Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)** | -- | -- | 0.020 | N.D. |
| 57 | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4 | 500-036-1 | 0.020 | N.D. |
| 58 | Bis(2-methoxyethyl) phthalate (DMEP) | 117-82-8 | 204-212-6 | 0.020 | N.D. |
| 59 | 2-Methoxyaniline; o-Anisidine | 90-04-0 | 201-963-1 | 0.020 | N.D. |
| 60 | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol) | 140-66-9 | 205-426-2 | 0.020 | N.D. |
| 61 | 1,2-Dichloroethane | 107-06-2 | 203-458-1 | 0.020 | N.D. |

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| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|--|------------|-----------|------------------|----------------|
| 62 | Bis(2-methoxyethyl) ether | 111-96-6 | 203-924-4 | 0.020 | N.D. |
| 63 | Arsenic acid** | 7778-39-4 | 231-901-9 | 0.020 | N.D. |
| 64 | Calcium arsenate** | 7778-44-1 | 231-904-5 | 0.020 | N.D. |
| 65 | Trilead diarsenate** | 3687-31-8 | 222-979-5 | 0.020 | N.D. |
| 66 | N,N-dimethylacetamide (DMAC) | 127-19-5 | 204-826-4 | 0.020 | N.D. |
| 67 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA) | 101-14-4 | 202-918-9 | 0.020 | N.D. |
| 68 | Phenolphthalein | 77-09-8 | 201-004-7 | 0.020 | N.D. |
| 69 | Lead diazide Lead azide ** | 13424-46-9 | 236-542-1 | 0.020 | N.D. |
| 70 | Lead styphnate** | 15245-44-0 | 239-290-0 | 0.020 | N.D. |
| 71 | Lead dipicrate** | 6477-64-1 | 229-335-2 | 0.020 | N.D. |

The seventh thirteen Substances of Very High Concern (Released in Jun, 2012)

| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|---|------------|-----------|------------------|----------------|
| 72 | 1,2-bis(2-methoxyethoxy)ethane(TEG DME; triglyme) | 112-49-2 | 203-977-3 | 0.020 | N.D. |
| 73 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 110-71-4 | 203-794-9 | 0.020 | N.D. |
| 74 | Diboron trioxide** | 1303-86-2 | 215-125-8 | 0.020 | N.D. |
| 75 | Formamide | 75-12-7 | 200-842-0 | 0.020 | N.D. |
| 76 | Lead(II) bis(methanesulfonate) ** | 17570-76-2 | 401-750-5 | 0.020 | N.D. |
| 77 | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazin e-2,4,6-(1H,3H,5H)-trione) | 2451-62-9 | 219-514-3 | 0.020 | N.D. |
| 78 | β-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 | 423-400-0 | 0.020 | N.D. |
| 79 | 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) | 90-94-8 | 202-027-5 | 0.020 | N.D. |

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| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|--|-----------|-----------|------------------|----------------|
| 80 | N,N,N',N'-tetramethyl-4,4'-methylenedi aniline (Michler's base) | 101-61-1 | 202-959-2 | 0.020 | N.D. |
| 81 | [4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) | 548-62-9 | 208-953-6 | 0.020 | N.D. |
| 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 | 219-943-6 | 0.020 | N.D. |
| 83 | α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) | 6786-83-0 | 229-851-8 | 0.020 | N.D. |
| 84 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol | 561-41-1 | 209-218-2 | 0.020 | N.D. |

The eighth fifty-four Substances of Very High Concern (Released in Dec, 2012)

| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|--|------------|-----------|------------------|----------------|
| 85 | Bis(pentabromophenyl) ether (DecaBDE) | 1163-19-5 | 214-604-9 | 0.020 | N.D. |
| 86 | Pentacosafuorotridecanoic acid | 72629-94-8 | 276-745-2 | 0.020 | N.D. |
| 87 | Tricosafuorododecanoic acid | 307-55-1 | 206-203-2 | 0.020 | N.D. |
| 88 | Henicosafuoroundecanoic acid | 2058-94-8 | 218-165-4 | 0.020 | N.D. |
| 89 | Heptacosafuorotetradecanoic acid | 376-06-7 | 206-803-4 | 0.020 | N.D. |
| 90 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues | -- | -- | 0.020 | N.D. |

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| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|--|---|---|------------------|----------------|
| 91 | 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 | -- | -- | 0.020 | N.D. |
| 92 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 123-77-3 | 204-650-8 | 0.020 | N.D. |
| 93 | Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) | 85-42-7 13149-00-3 14166-21-3 | 201-604-9 236-086-3 238-009-9 | 0.020 | N.D. |
| 94 | Hexahydromethylphthalic anhy, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride | 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9 | 247-094-1, 243-072-0, 256-356-4, 260-566-1 | 0.020 | N.D. |
| 95 | Methoxy acetic acid | 625-45-6 | 210-894-6 | 0.020 | N.D. |
| 96 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0 | 284-032-2 | 0.020 | N.D. |
| 97 | Diisopentylphthalate (DIPP) | 605-50-5 | 210-088-4 | 0.020 | N.D. |
| 98 | N-pentyl-isopentylphthalate | 776297-69-9 | -- | 0.020 | N.D. |
| 99 | 1,2-Diethoxyethane | 629-14-1 | 211-076-1 | 0.020 | N.D. |
| 100 | N,N-dimethylformamide; dimethyl formamide | 68-12-2 | 200-679-5 | 0.020 | N.D. |
| 101 | Dibutyltin dichloride (DBTC) | 683-18-1 | 211-670-0 | 0.020 | N.D. |
| 102 | Acetic acid, lead salt, basic** | 51404-69-4 | 257-175-3 | 0.020 | N.D. |

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| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|---|-------------|-----------|------------------|----------------|
| 103 | Basic lead carbonate (trilead bis(carbonate)dihydroxide) ** | 1319-46-6 | 215-290-6 | 0.020 | N.D. |
| 104 | Lead oxide sulfate (basic lead sulfate) ** | 12036-76-9 | 234-853-7 | 0.020 | N.D. |
| 105 | [Phthalato(2-)]dioxotrilead (dibasic lead phthalate) ** | 69011-06-9 | 273-688-5 | 0.020 | N.D. |
| 106 | Dioxobis(stearato)trilead** | 12578-12-0 | 235-702-8 | 0.020 | N.D. |
| 107 | Fatty acids, C16-18, lead salts** | 91031-62-8 | 292-966-7 | 0.020 | N.D. |
| 108 | Lead bis(tetrafluoroborate) ** | 13814-96-5 | 237-486-0 | 0.020 | N.D. |
| 109 | Lead cyanamate** | 20837-86-9 | 244-073-9 | 0.020 | N.D. |
| 110 | Lead dinitrate** | 10099-74-8 | 233-245-9 | 0.020 | N.D. |
| 111 | Lead oxide (lead monoxide) ** | 1317-36-8 | 215-267-0 | 0.020 | N.D. |
| 112 | Lead tetroxide (orange lead) ** | 1314-41-6 | 215-235-6 | 0.020 | N.D. |
| 113 | Lead titanium trioxide** | 12060-00-3 | 235-038-9 | 0.020 | N.D. |
| 114 | Lead Titanium Zirconium Oxide** | 12626-81-2 | 235-727-4 | 0.020 | N.D. |
| 115 | Pentalead tetraoxide sulphate** | 12065-90-6 | 235-067-7 | 0.020 | N.D. |
| 116 | Pyrochlore, antimony lead yellow** | 8012 -00-8 | 232-382-1 | 0.020 | N.D. |
| 117 | Silicic acid, barium salt, lead-doped** | 68784-75-8 | 272-271-5 | 0.020 | N.D. |
| 118 | Silicic acid, lead salt** | 11120-22-2 | 234-363-3 | 0.020 | N.D. |
| 119 | Sulfurous acid, lead salt, dibasic** | 62229-08-7 | 263-467-1 | 0.020 | N.D. |
| 120 | Tetraethyllead** | 78-00-2 | 201-075-4 | 0.020 | N.D. |
| 121 | Tetralead trioxide sulphate** | 12202-17-4 | 235-380-9 | 0.020 | N.D. |
| 122 | Trilead dioxide phosphonate** | 12141-20-7 | 235-252-2 | 0.020 | N.D. |
| 123 | Furan | 110-00-9 | 203-727-3 | 0.020 | N.D. |
| 124 | Propylene oxide; 1,2-epoxypropane; methyloxirane | 75-56-9 | 200-879-2 | 0.020 | N.D. |
| 125 | Diethyl sulphate | 64-67-5 | 200-589-6 | 0.020 | N.D. |
| 126 | Dimethyl sulphate | 77-78-1 | 201-058-1 | 0.020 | N.D. |
| 127 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | 421-150-7 | 0.020 | N.D. |

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| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|--|----------|-----------|------------------|----------------|
| 128 | Dinoseb | 88-85-7 | 201-861-7 | 0.020 | N.D. |
| 129 | 4,4'-methylenedi-o-toluidine | 838-88-0 | 212-658-8 | 0.020 | N.D. |
| 130 | 4,4'-oxydianiline and its salts | 101-80-4 | 202-977-0 | 0.020 | N.D. |
| 131 | 4-Aminoazobenzene; 4-Phenylazoaniline | 60-09-3 | 200-453-6 | 0.020 | N.D. |
| 132 | 4-methyl-m-phenylenediamine (2,4-toluene-diamine) | 95-80-7 | 202-453-1 | 0.020 | N.D. |
| 133 | 6-methoxy-m-toluidine (p-cresidine) | 120-71-8 | 204-419-1 | 0.020 | N.D. |
| 134 | Biphenyl-4-ylamine | 92-67-1 | 202-177-1 | 0.020 | N.D. |
| 135 | o-aminoazotoluene | 97-56-3 | 202-591-2 | 0.020 | N.D. |
| 136 | o-Toluidine; 2-Aminotoluene | 95-53-4 | 202-429-0 | 0.020 | N.D. |
| 137 | N-methylacetamide | 79-16-3 | 201-182-6 | 0.020 | N.D. |
| 138 | 1-bromopropane; n-propyl bromide | 106-94-5 | 203-445-0 | 0.020 | N.D. |

The ninth six Substances of Very High Concern (Released in Jun, 2013)

| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|--|-----------|-----------|------------------|----------------|
| 139 | Cadmium ** | 7440-43-9 | 231-152-8 | 0.020 | N.D. |
| 140 | Cadmium oxide ** | 1306-19-0 | 215-146-2 | 0.020 | N.D. |
| 141 | Dipentyl phthalate (DPP) | 131-18-0 | 205-017-9 | 0.020 | N.D. |
| 142 | 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] | / | / | 0.020 | N.D. |

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| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|--|-----------|-----------|------------------|----------------|
| 143 | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | 223-320-4 | 0.020 | N.D. |
| 144 | Pentadecafluorooctanoic acid (PFOA) | 335-67-1 | 206-397-9 | 0.020 | N.D. |

The tenth seven Substances of Very High Concern (Released in Dec, 2013)

| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|-----------------------|------------|-----------|------------------|----------------|
| 145 | Cadmium sulphide** | 1306-23-6 | 215-147-8 | 0.020 | N.D. |
| 146 | Dihexyl phthalate | 84-75-3 | 201-559-5 | 0.020 | N.D. |
| 147 | C.I. Direct Red 28 | 573-58-0 | 209-358-4 | 0.020 | N.D. |
| 148 | C.I. Direct Black 38 | 1937-37-7 | 217-710-3 | 0.020 | N.D. |
| 149 | 2-imidazoline-2-thiol | 96-45-7 | 202-506-9 | 0.020 | N.D. |
| 150 | Lead di(acetate)** | 301-04-2 | 206-104-4 | 0.020 | N.D. |
| 151 | Trixylyl phosphate | 25155-23-1 | 246-677-8 | 0.020 | N.D. |

The eleventh four Substances of Very High Concern (Released in Jun, 2014)

| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|--|------------|-------------------------|------------------|----------------|
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | 271-093-5 | 0.020 | N.D. |
| 153 | Cadmium chloride** | 10108-64-2 | 233-296-7 | 0.020 | N.D. |
| 154 | Sodium perborate; perboric acid, sodium salt** | - | 239-172-9; 234-390-0 | 0.020 | N.D. |
| 155 | Sodium peroxometaborate** | 7632-04-4 | 231-556-4 | 0.020 | N.D. |

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The Twelfth six Substances of Very High Concern (Released in Dec, 2014)


| Code | Test Item | CAS No. | EC No. | Report Limit (%) | Results A# (%) |
|------|--|---------------------------|-----------|------------------|----------------|
| 156 | Cadmium fluoride** | 7790-79-6 | 232-222-0 | 0.020 | N.D. |
| 157 | Cadmium sulphate** | 10124-36-4, 31119-53-6 | 233-331-6 | 0.020 | N.D. |
| 158 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 3846-71-7 | 223-346-6 | 0.020 | N.D. |
| 159 | 2-(2H-benzotriazol-2-yl)-4,6-ditertbutylphenol (UV-328) | 25973-55-1 | 247-284-8 | 0.020 | N.D. |
| 160 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 15571-58-1 | 239-622-4 | 0.020 | N.D. |
| 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) | -- | -- | 0.020 | N.D. |

Note:

1. mg/kg = ppm = 10^{-6}
2. % = w/w
3. N.D. : < Report Limit
4. *The detected DHNUP are consisted of six phthalates which CAS number are 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 and 111381-91-0. According to the Annex 15 of REACH.
5. ** According to the 5.2.1 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence and identification of substances in a sample when necessary.

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6. Report Results: based on measurements in most cases will identify the chemical constituents in the sample but not necessarily "the substance" which were originally used to produce the article, professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011.
7. Report Limit: Be obtained from the uncertainty, the 0.1 % threshold and the ECHA "Guidance on requirements for substances in articles".
8. Results A#: According to the applicant's request, the admixture of specimen A is tested as a whole. The testing results of specimen A may be different from that of any sole material in specimen A.

Appendix:

1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
 - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
 - 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
 - 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

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Photograph of Sample



***** End of Report *****

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