



扫二维码
关注谱尼测试

Test Report

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 1 of 32

(SVHC)

Applicant: Zhejiang Rectron Electronic Co.,Ltd

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name: Lead Wire,Solder Wafer,Dice Wafer,Plating (Mix Tested);
Molding,Silicon Rubber,Uv Ink (Mix Tested)

Manufacturer: RECTRON

Applies to the following packages:

SMA(L) /SMB(L) /SMC(L) / SMX /SlimPAQ (P) /ThinPAQ /SOD123 / SOD123F(L) /
MELF / MINI MELF / R1 / A405 /DO41 / DO15 / R3 / R6 / R7 / 1.5KE / DO201 /
DO204 /HVM / HVP / DBS / DB / DBLS / SLDBS / MDS / MD /BDB / RS1 / RS2(L) /
RS4L / RS6 / RS8 / RB15 / WOM /RC2 / BR3 / BR6 / BR8 / BR10 /
BR15(W)-25(W)-35(W) /MB15(W)-25(W)-35(W) /
MP15(W)-25(W)-35(W) /RS1M-2M-4M-6M-8M-10M-15M-20M-25M-35M /
RBU4M-6M-8M-10M-15M / (I)TO220A / (I)TO220 /DPAK /D2PAK /
TO247 / SOT23/SMAF/MDSJ/LMDS/SOD323/MB/MSBS/D3K/MB-F/MD-F.

Sample Received Date: 2016.06.01

Testing Period: 2016.06.01 To 2016.06.29

Reference specification: Very High Concern (SVHC) testing based on the list published by European Chemicals Agency (ECHA) on 28 Oct 2008, 13 Jan 2010, 30 Mar 2010, 18 Jun 2010, 15 Dec 2010, 20 Jun 2011, 19 Dec 2011, 18 Jun 2012, 19 Dec 2012, 20 Jun 2013, 16 Dec 2013, 16 Jun 2014, 17 Dec 2014, 15 Jun 2015, 17 Dec 2015, and 29 Feb 2016, regarding regulation (EC) No 1907/2006 concerning the REACH. Screening tests based on customer requirements.

Test result(s): Please refer to next page(s)

Approved by:

Code: zygr5

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Test Report

(SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 2 of 32

Reference Method:

| No. | Substance Name(s) | Reference Method and Equipments | Substance Classification |
|-----|--|--|--|
| 1 | Anthracene | US EPA 3540C:1996 GC-MS | PBT |
| 2 | Benzyl butyl phthalate (BBP) | US EPA 8061A:1996 GC-MS | Toxic for reproduction, cat.2 |
| 3 | Dibutyl phthalate (DBP) | US EPA 8061A:1996 GC-MS | Toxic for reproduction, cat.2 |
| 4 | Bis(2-ethylhexyl) phthalate (DEHP) | US EPA 8061A:1996 GC-MS | Toxic for reproduction, cat.2 |
| 5 | HBCDD (α -HBCDD, β -HBCDD, γ -HBCDD) | US EPA 3550C:2007 GC-MS | PBT |
| 6 | 4,4'-Diaminodiphenylmethane | EN 14362-1:2012 GC-MS | Carcinogen, cat.2 |
| 7 | Short chain chlorinated paraffins (SCCP) | US EPA 3540C:1996 GC-MS | PBT vPvB |
| 8 | Musk xylene | US EPA 3550C:2007 GC-MS | vPvB |
| 9 | Triethyl arsenate ⁽¹⁾ | US EPA 3052:1996 ICP-OES | Carcinogen, cat.1 |
| 10 | Bis(tributyltin) oxide (TBTO) | ISO 17353:2005 GC-MS | PBT |
| 11 | Cobalt dichloride ⁽¹⁾ | US EPA 3052:1996 BS EN 14582:2007 ICP-OES/IC | CMR |
| 12 | Diarsenic pentaoxide ⁽¹⁾ | US EPA 3052:1996 ICP-OES | Carcinogen, cat.1 |
| 13 | Diarsenic trioxide ⁽¹⁾ | US EPA 3052:1996 ICP-OES | Carcinogen, cat.1 |
| 14 | Sodium dichromate ⁽¹⁾ | US EPA 3052:1996 US EPA 3060A:1996 US EPA 9056A:2007 ICP-OES/UV-Vis | Carcinogen, cat.2 Mutagen, cat.2 Toxic for reproduction, cat.2 |
| 15 | Lead hydrogen arsenate ⁽¹⁾ | US EPA 3052:1996 ICP-OES | Carcinogen, cat.1 Toxic for reproduction, cat.1 |
| 16 | 2,4-Dinitrotoluene | US EPA 3550C:2007 GC-MS | Carcinogen, cat.2 |
| 17 | Anthracene oil ⁽²⁾ | US EPA 3540C:1996 GC-MS | PBT |

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Test Report

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 3 of 32

(SVHC)

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|-----|--|---|--|
| 18 | Anthracene oil, anthracene paste, distn lights ⁽²⁾ | US EPA 3540C:1996 GC-MS | PBT |
| 19 | Anthracene oil, anthracene paste, anthracene fraction ⁽²⁾ | US EPA 3540C:1996 GC-MS | PBT |
| 20 | Anthracene oil, anthracene-low ⁽²⁾ | US EPA 3540C:1996 GC-MS | PBT |
| 21 | Anthracene oil, anthracene paste ⁽²⁾ | US EPA 3540C:1996 GC-MS | PBT |
| 22 | Diisobutyl phthalate (DIBP) | US EPA 8061A:1996 GC-MS | Toxic for reproduction, cat.2 |
| 23 | Lead chromate ⁽³⁾ | US EPA 3052:1996 US EPA 3060A:1996 ICP-OES/UV-Vis | Carcinogen, cat.2 Toxic for reproduction, cat.1 |
| 24 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ⁽³⁾ | US EPA 3052:1996 US EPA 3060A:1996 ICP-OES/UV-Vis | Carcinogen, cat.2 Toxic for reproduction, cat.1 |
| 25 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) ⁽³⁾ | US EPA 3052:1996 US EPA 3060A:1996 ICP-OES/UV-Vis | Carcinogen, cat.2 Toxic for reproduction, cat.1 |
| 26 | Tris(2-chloroethyl) phosphate (TCEP) | US EPA 3550C:2007 GC-MS | Toxic for reproduction, cat.2 |
| 27 | Coal tar pitch, high temperature ⁽²⁾ | US EPA 3540C:1996 GC-MS | PBT Carcinogen, cat.2 |
| 28 | Acrylamide | Pony-in-house method HPLC | Carcinogen, cat.2 Mutagen, cat.2 |
| 29 | Trichloroethylene | US EPA 5021:1996 HS-GC | Carcinogen, cat.2 |
| 30 | Boric acid ⁽¹⁾ | Pony-in-house method ICP-OES | Toxic for reproduction, cat.2 |
| 31 | Disodium tetraborate, anhydrous ⁽¹⁾ | Pony-in-house method ICP-OES | Toxic for reproduction, cat.2 |
| 32 | Tetraboron disodium heptaoxide, hydrate ⁽¹⁾ | Pony-in-house method ICP-OES | Toxic for reproduction, cat.2 |
| 33 | Sodium chromate ⁽¹⁾ | Pony-in-house method UV-Vis | Carcinogen, cat.2 Mutagen, cat.2 Toxic for reproduction, cat.2 |
| 34 | Potassium chromate ⁽¹⁾ | Pony-in-house method UV-Vis | Carcinogen, cat.2 Mutagen, cat.2 |

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Test Report

(SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 4 of 32

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|-----|--|--|--|--|
| 35 | Potassium dichromate ⁽¹⁾ | | Pony-in-house method UV-Vis | Carcinogen, cat.2 Mutagen, cat.2 Toxic for reproduction, cat.2 |
| 36 | Ammonium dichromate ⁽¹⁾ | | Pony-in-house method UV-Vis | Carcinogen, cat.2 Mutagen, cat.2 Toxic for reproduction, cat.2 |
| 37 | Cobalt(II) sulfate ⁽¹⁾ | | Pony-in-house method ICP-OES | Carcinogen, cat.2 Mutagen, cat.3 Toxic for reproduction, cat.2 |
| 38 | Cobalt(II) dinitrate ⁽¹⁾ | | Pony-in-house method ICP-OES | Carcinogen, cat.2 Mutagen, cat.3 Toxic for reproduction, cat.2 |
| 39 | Cobalt(II) carbonate ⁽¹⁾ | | Pony-in-house method ICP-OES | CMR |
| 40 | Cobalt(II) diacetate ⁽¹⁾ | | Pony-in-house method ICP-OES | CMR |
| 41 | 2-Methoxyethanol | | US EPA 3550C:2007 GC | CMR |
| 42 | 2-Ethoxyethanol | | US EPA 3550C:2007 GC | CMR |
| 43 | Chromium trioxide ⁽¹⁾ | | Pony-in-house method UV-Vis | CMR1,2 |
| 44 | Chromium hemitrioxide and acid from it's oligomer ⁽¹⁾ | Chromic acid | Pony-in-house method UV-Vis | CMR |
| | | Dichromic acid | Pony-in-house method UV-Vis | CMR |
| | | Oligomers of chromic acid and dichromic acid | Pony-in-house method UV-Vis | CMR2 |
| 45 | 2-Ethoxyethyl acetate | | US EPA 3550C:2007 GC | CMR |
| 46 | Strontium chromate ⁽¹⁾ | | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |
| 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters ⁽²⁾ (DHNUP) | | US EPA 8061A:1996 GC-MS | CMR |

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(SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 5 of 32

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|-----|--|--|--------------------------|
| 48 | Hydrazine | Pony-in-house method UV-Vis | CMR |
| 49 | 1-Methyl-2-pyrrolidone | US EPA 3550C:2007 GC | CMR |
| 50 | 1,2,3-Trichloropropane | US EPA 5021:1996 GC | CMR |
| 51 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich ⁽²⁾ (DIHP) | US EPA 8061A:1996 GC-MS | CMR |
| 52 | Dichromium tris(chromate) ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |
| 53 | Potassium hydroxyoctaoxodizincatedi- chromate ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |
| 54 | Pentazinc chromate octahydroxide ⁽³⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |
| 55 | Aluminosilicate refractory ceramic fibres (RCF) ⁽³⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |
| 56 | Zirconia aluminosilicate refractory ceramic fibres (Zr-RCF) ⁽³⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |
| 57 | Formaldehyde, oligomeric reaction products with aniline ⁽³⁾ | Pony-in-house method FTIR | CMR |
| 58 | Bis(2-methoxyethyl) phthalate (DMEP) | US EPA 8061A:1996 GC-MS | CMR |
| 59 | 2-Methoxyaniline | EN 14362-1:2012 GC-MS | CMR |
| 60 | 4-(1,1,3,3-Tetramethylbutyl) phenol | US EPA 3550C:2007 GC-MS | Equivalent concern |
| 61 | 1,2-Dichloroethane | US EPA 5021:1996 GC | CMR |
| 62 | Bis(2-methoxyethyl) ether | US EPA 3550C:2007 GC | CMR |
| 63 | Arsenic acid ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |

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Test Report

(SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 6 of 32

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|-----|---|--|--------------------------|
| 64 | Calcium arsenate ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |
| 65 | Trilead diarsenate ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |
| 66 | N,N-Dimethylacetamide | US EPA 3550C:2007 GC | CMR |
| 67 | Phenolphthalein | Pony-in-house method HPLC | CMR |
| 68 | 2,2'-Dichloro-4,4'-methylenedianiline (MOCA) | EN 14362-1:2012 GC-MS | CMR |
| 69 | Lead diazide ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |
| 70 | Lead styphnate ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |
| 71 | Lead dipicrate ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | CMR |
| 72 | 1,2-Bis(2-methoxyethoxy) ethane | US EPA 3550C:2007 GC | Toxic for reproduction |
| 73 | 1,2-Dimethoxyethane ethylene glycol dimethyl ether | US EPA 5021:1996 HS-GC | Toxic for reproduction |
| 74 | Diboron trioxide ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 75 | Formamide | US EPA 3550C:2007 GC | Toxic for reproduction |
| 76 | Lead(II) bis(methanesulfonate) ⁽¹⁾ | US EPA 3052:1996 AAS | Toxic for reproduction |
| 77 | 1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC) | Pony-in-house method GC-MS | Mutagen |
| 78 | 1,3,5-Tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ⁽⁴⁾ | US EPA 8270D:2014 GC-MS | Mutagen |
| 79 | 4,4'-Bis(dimethylamino) benzophenone (Michler's ketone) | US EPA 8270D:2014 GC-MS | Carcinogen |

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Test Report

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 7 of 32

(SVHC)

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|-----|--|---------------------------------|--------------------------|
| 80 | N,N,N',N'-Tetramethyl-4,4'-methylenedianiline (Michler's base) | US EPA 8270D:2014 GC-MS | Carcinogen |
| 81 | [4-[4,4'-Bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) | Pony-in-house method HPLC | Carcinogen |
| 82 | [4-[4-Anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) | Pony-in-house method HPLC | Carcinogen |
| 83 | α,α -Bis[4-(dimethylamino) phenyl]-4(phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) | Pony-in-house method HPLC | Carcinogen |
| 84 | 4,4'-Bis(dimethylamino)-4''-(methylamino) trityl alcohol | Pony-in-house method HPLC | Carcinogen |
| 85 | Bis(pentabromophenyl) ether (DecaBDE) | IEC 62321-6:2015 GC-MS | PBT vPvB |
| 86 | Pentacosafuorotridecanoic acid | US EPA 3550C:2007 LC-MS/MS | vPvB |
| 87 | Tricosafuorododecanoic acid | US EPA 3550C:2007 LC-MS/MS | vPvB |
| 88 | Henicosafuoroundecanoic acid | US EPA 3550C:2007 LC-MS/MS | vPvB |
| 89 | Heptacosafuorotetradecanoic acid | US EPA 3550C:2007 LC-MS/MS | vPvB |
| 90 | 4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated-covering well-defined substances and UVCB substances, polymers and homologues ⁽²⁾ | US EPA 3550C:2007 HPLC | Equivalent concern |
| 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 ⁽²⁾ | US EPA 3550C:2007 HPLC | Equivalent concern |

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Page 8 of 32

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|-----|---|---|--|
| 92 | Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide)) | US EPA 3550C:2007 HPLC | Equivalent concern |
| 93 | Cyclohexane-1,2-dicarboxylic Anhydride, cis-cyclohexane -1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | US EPA 3550C:2007 GC-MS | Equivalent concern |
| 94 | Hexahydromethylphthalicanhydride Hexahydro-4-methylphthalicanhydride Hexahydro-1-methylphthalicanhydride Hexahydro-3-methylphthalicanhydride | US EPA 3550C:2007 GC-MS | Equivalent concern |
| 95 | Methoxy acetic acid | US EPA 3550C:2007 GC | Toxic for reproduction Equivalent concern |
| 96 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | US EPA 8061A:1996 GC-MS | Toxic for reproduction |
| 97 | Diisopentylphthalate (DIPP) | US EPA 8061A:1996 GC-MS | Toxic for reproduction |
| 98 | N-pentyl-isopentylphthalate | US EPA 8061A:1996 GC-MS | Toxic for reproduction |
| 99 | 1,2-Diethoxyethane | US EPA 3550C:2007 GC | Toxic for reproduction |
| 100 | N,N-dimethylformamide | US EPA 3550C:2007 GC | Toxic for reproduction |
| 101 | Dibutyltin dichloride (DBT) | ISO 17353:2005 GC-MS | Toxic for reproduction |
| 102 | Acetic acid, lead salt, basic ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 103 | Basic lead carbonate (Trilead bis(carbonate)dihydroxide) ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 104 | Lead oxide sulfate (Basic lead sulfate) ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 105 | [Phthalato(2-)] dioxotrilead | Pony-In-house method GC-MS | Toxic for reproduction |
| 106 | Dioxobis(stearato) trilead | Pony-In-house method GC | Toxic for reproduction |

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Test Report

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Date: 2016.06.29

Page 9 of 32

(SVHC)

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|-----|---|--|--------------------------|
| 107 | Fatty acids, C16-18, lead salts C16-18 | Pony-In-house method GC | Toxic for reproduction |
| 108 | Lead bis(tetrafluoroborate) ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 109 | Lead cyanamide ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 110 | Lead dinitrate ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 111 | Lead oxide (Lead monoxide) ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 112 | Lead tetroxide (Orange lead) ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 113 | Lead titanium trioxide ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 114 | Lead titanium zirconium oxide ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 115 | Pentalead tetraoxide sulphate ⁽³⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 116 | Pyrochlore, antimony lead yellow (C.I. Pigment Yellow 41) ⁽³⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 117 | Silicic acid, barium salt, lead-doped ⁽³⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 118 | Silicic acid, lead salt ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 119 | Sulfurous acid, lead salt, dibasic ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 120 | Tetraethyllead | US EPA 3550C:2007 GC | Toxic for reproduction |

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Test Report

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 10 of 32

(SVHC)

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|-----|--|--|--------------------------|
| 121 | Tetralead trioxide sulphate ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 122 | Trilead dioxide phosphonate ⁽¹⁾ | US EPA 3052:1996 US EPA 6010D:2014 ICP-OES | Toxic for reproduction |
| 123 | Furan | US EPA 5021:1996 GC | Carcinogen |
| 124 | Propylene oxide; 1,2-epoxypropane;methyloxirane | US EPA 5021:1996 GC | Carcinogen Mutagen |
| 125 | Diethyl sulphate | US EPA 3550C:2007 HPLC | Carcinogen Mutagen |
| 126 | Dimethyl sulphate | US EPA 3550C:2007 HPLC | Carcinogen |
| 127 | 3-Ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine | Pony-In-house method HS-GC GC-MS | Toxic for reproduction |
| 128 | Dinoseb | US EPA 3550C:2007 HPLC | Toxic for reproduction |
| 129 | 4,4'-Methylenedi-o-toluidine | EN 14362:2012 GC-MS | Carcinogen |
| 130 | 4,4'-Oxydianiline and its salts | EN 14362:2012 GC-MS | Carcinogen Mutagen |
| 131 | 4-Aminoazobenzene | EN 14362:2012 GC-MS | Carcinogen |
| 132 | 4-Methyl-m-phenylenediamine (2,4-Toluene-diamine) | EN 14362:2012 GC-MS | Carcinogen |
| 133 | 6-Methoxy-m-toluidine (p-cresidine) | EN 14362:2012 GC-MS | Carcinogen |
| 134 | Biphenyl-4-ylamine | EN 14362:2012 GC-MS | Carcinogen |
| 135 | o-Aminoazotoluene | EN 14362:2012 GC-MS | Carcinogen |
| 136 | o-Toluidine; 2-Aminotoluene | EN 14362:2012 GC-MS | Carcinogen |
| 137 | N-Methylacetamide | US EPA 3550C:2007 GC | Toxic for reproduction |
| 138 | 1-Bromopropane; n-Propyl bromide | US EPA 5021:1996 GC | Toxic for reproduction |

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Test Report

(SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 11 of 32

Reference Methods:

| No. | Substance Name(s) | Reference Methods and Equipments | Substance Classification |
|-----|--|----------------------------------|-------------------------------|
| 139 | Cadmium | US EPA 3052:1996 ICP-OES | CMR EQC |
| 140 | Cadmium oxide ⁽¹⁾ | US EPA 3052:1996 ICP-OES | CMR EQC |
| 141 | Dipentyl phthalate (DPP) | US EPA 8061A:1996 GC-MS | Toxic for reproduction |
| 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, which include any of the individual isomers and/or combinations thereof] ⁽²⁾ | US EPA 3550C:2007 HPLC | EQC |
| 143 | Ammonium pentadecafluorooctanoate (APFO) | US EPA 3550C:2007 LC-MS/MS | Toxic for reproduction PBT |
| 144 | Pentadecafluorooctanoic acid (PFOA) | US EPA 3550C:2007 LC-MS/MS | Toxic for reproduction PBT |
| 145 | Cadmium sulphide ⁽¹⁾ | US EPA 3052:1996 ICP-OES | CMR EQC |
| 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) | Pony-In-house method LC-MS/MS | Carcinogen |
| 147 | Dihexyl phthalate | US EPA 8061A:1996 GC-MS | Toxic for reproduction |
| 148 | Imidazolidine-2-thione (2-imidazoline-2-thiol) | US EPA 3550C:2007 GC-MS | Toxic for reproduction |
| 149 | Trixylyl phosphate | US EPA 3550C:2007 GC-MS | Toxic for reproduction |
| 150 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | Pony-In-house method LC-MS/MS | Carcinogen |
| 151 | Lead di(acetate) ⁽¹⁾ | US EPA 3052:1996 ICP-OES | Toxic for reproduction |

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Test Report

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 12 of 32

(SVHC)

Reference Methods:

| No. | Substance Name(s) | Reference Methods and Equipments | Substance Classification |
|-----|---|----------------------------------|--------------------------|
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | US EPA 8061A:1996 GC-MS | Toxic for reproduction |
| 153 | Sodium perborate; perboric acid, sodium salt ⁽¹⁾ | US EPA 3052:1996 ICP-OES | Toxic for reproduction |
| 154 | Sodium peroxometaborate ⁽¹⁾ | US EPA 3052:1996 ICP-OES | Toxic for reproduction |
| 155 | Cadmium chloride ⁽¹⁾ | US EPA 3052:1996 ICP-OES | CMR EQC |
| 156 | 2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole (UV-320) | US EPA 3540C:1996 GC-MS | PBT vPvB |
| 157 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | US EPA 3540C:1996 GC-MS | PBT vPvB |
| 158 | 2-Ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetra decanoate (DOTE) ⁽¹⁾⁽²⁾ | US EPA 3052:1996 ICP-OES | Toxic for reproduction |
| 159 | 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 & MOTE) ⁽¹⁾⁽²⁾⁽³⁾ | US EPA 3052:1996 ICP-OES | Toxic for reproduction |
| 160 | Cadmium fluoride ⁽¹⁾ | US EPA 3052:1996 ICP-OES | CMR EQC |
| 161 | Cadmium sulphate ⁽¹⁾ | US EPA 3052:1996 ICP-OES | CMR EQC |
| 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate ⁽²⁾ | US EPA 8061A:1996 GC-MS | Toxic for reproduction |

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Test Report

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 13 of 32

(SVHC)

Reference Methods:

| No. | Substance Name(s) | Reference Methods and Equipments | Substance Classification |
|-----|--|----------------------------------|---|
| 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 isomers of [1] and [2] or any combination thereof] ⁽²⁾ | US EPA 3550C:2007 GC-MS | vPvB |
| 164 | 1,3-Propanesultone | Pony-In-house method GC-MS | Carcinogenic |
| 165 | 2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)pheno (UV-327) | US EPA 3540C:1996 GC-MS | vPvB |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) | US EPA 3540C:1996 GC-MS | vPvB |
| 167 | Nitrobenzene | US EPA 8270D:2014 GC-MS | Toxic for reproduction |
| 168 | Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9)-heptadecafluorononanoic acid and its sodium and ammonium salts ⁽²⁾ | US EPA 3550C:2007 LC-MS/MS | Toxic for reproduction PBT |
| 169 | (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one (4-methylbenzylidene camphor) | US EPA 3540C:1996 GC-MS | Equivalent level of concern having probable serious effects to the environment |
| 170 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) | US EPA 3540C:1996 GC-MS | Equivalent level of concern having probable serious effects to the environment |
| 171 | Benzo[def]chrysene (Benzo[a]pyrene) | US EPA 3540C:1996 GC-MS | Carcinogenic, Mutagenic, Toxic for reproduction, PBT, vPvB |
| 172 | Dicyclohexyl phthalate (DCHP) | US EPA 8061A:1996 GC-MS | Toxic for reproduction, Equivalent level of concern having probable serious effects to human health and the environment |

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Test Report

(SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 14 of 32

Part List

| No | Part Name | Test Organization | Report NO. | Date of Report |
|----|--|-------------------|--------------------|----------------|
| 1 | Lead Wire,Solder Wafer,Dice Wafer,Plating (Mix Tested) | PONY | BDCEOZ2K72865744-1 | 2016.06.29 |
| 2 | Molding,Silicon Rubber,Uv Ink (Mix Tested) | PONY | BDCEOZ2K72865744-2 | 2016.06.29 |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 15 of 32

| NO. | SVHC | DL | 1 | 2 |
|-----|--|--------|-----------------------|------|
| | | | Test result (Unit: %) | |
| 1 | Anthracene | 0.0005 | * | N.D. |
| 2 | Benzyl butyl phthalate (BBP) | 0.005 | * | N.D. |
| 3 | Dibutyl phthalate (DBP) | 0.005 | * | N.D. |
| 4 | Bis(2-ethylhexyl) phthalate (DEHP) | 0.005 | * | N.D. |
| 5 | HBCDD (α -HBCDD, β -HBCDD, γ -HBCDD) | 0.005 | * | N.D. |
| 6 | 4,4'-Diaminodiphenylmethane | 0.005 | * | N.D. |
| 7 | Short chain chlorinated paraffins (SCCP) | 0.01 | * | N.D. |
| 8 | Musk xylene | 0.005 | * | N.D. |
| 9 | Triethyl arsenate ⁽¹⁾ | 0.005 | N.D. | N.D. |
| 10 | Bis(tributyltin) oxide (TBTO) | 0.01 | * | N.D. |
| 11 | Cobalt dichloride ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 12 | Diarsenic pentoxide ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 13 | Diarsenic trioxide ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 14 | Sodium dichromate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 15 | Lead hydrogen arsenate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 16 | 2,4-Dinitrotoluene | 0.01 | * | N.D. |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 16 of 32

| NO. | SVHC | DL | 1 | 2 |
|-----|--|-------|-----------------------|------|
| | | | Test result (Unit: %) | |
| 17 | Anthracene oil ⁽²⁾ | 0.05 | * | N.D. |
| 18 | Anthracene oil, anthracene paste, distn lights ⁽²⁾ | 0.05 | * | N.D. |
| 19 | Anthracene oil, anthracene paste, anthracene fraction ⁽²⁾ | 0.05 | * | N.D. |
| 20 | Anthracene oil, anthracene-low ⁽²⁾ | 0.05 | * | N.D. |
| 21 | Anthracene oil, anthracene paste ⁽²⁾ | 0.05 | * | N.D. |
| 22 | Diisobutyl phthalate (DIBP) | 0.005 | * | N.D. |
| 23 | Lead chromate ⁽³⁾ | 0.005 | N.D. | N.D. |
| 24 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ⁽³⁾ | 0.005 | N.D. | N.D. |
| 25 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) ⁽³⁾ | 0.005 | N.D. | N.D. |
| 26 | Tris(2-chloroethyl) phosphate (TCEP) | 0.005 | * | N.D. |
| 27 | Coal tar pitch, high temperature ⁽²⁾ | 0.05 | * | N.D. |
| 28 | Acrylamide | 0.005 | * | N.D. |
| 29 | Trichloroethylene | 0.01 | * | N.D. |
| 30 | Boric acid ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 31 | Disodium tetraborate, anhydrous ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 32 | Tetraboron disodium heptaoxide, hydrate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 33 | Sodium chromate ⁽¹⁾ | 0.01 | N.D. | N.D. |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 17 of 32

| NO. | SVHC | DL | 1 | 2 | |
|-----|---|--|------|------|------|
| | | Test result (Unit: %) | | | |
| 34 | Potassium chromate ⁽¹⁾ | 0.01 | N.D. | N.D. | |
| 35 | Potassium dichromate ⁽¹⁾ | 0.01 | N.D. | N.D. | |
| 36 | Ammonium dichromate ⁽¹⁾ | 0.01 | N.D. | N.D. | |
| 37 | Cobalt(II) sulfate ⁽¹⁾ | 0.01 | N.D. | N.D. | |
| 38 | Cobalt(II) dinitrate ⁽¹⁾ | 0.01 | N.D. | N.D. | |
| 39 | Cobalt(II) carbonate ⁽¹⁾ | 0.01 | N.D. | N.D. | |
| 40 | Cobalt(II) diacetate ⁽¹⁾ | 0.01 | N.D. | N.D. | |
| 41 | 2-Methoxyethanol | 0.01 | * | N.D. | |
| 42 | 2-Ethoxyethanol | 0.01 | * | N.D. | |
| 43 | Chromium trioxide ⁽¹⁾ | 0.01 | N.D. | N.D. | |
| 44 | Chromium hemitrioxide and acid from it's oligomer ⁽¹⁾ | Chromic acid | 0.01 | N.D. | N.D. |
| | | Dichromic acid | | | |
| | | Oligomers of chromic acid and dichromic acid | | | |
| 45 | 2-Ethoxyethyl acetate | 0.01 | * | N.D. | |
| 46 | Strontium chromate ⁽¹⁾ | 0.01 | N.D. | N.D. | |
| 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters ⁽²⁾ (DHNUP) | 0.01 | * | N.D. | |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 18 of 32

| NO. | SVHC | DL | 1 | 2 |
|-----|--|-------|-----------------------|------|
| | | | Test result (Unit: %) | |
| 48 | Hydrazine | 0.01 | * | N.D. |
| 49 | 1-Methyl-2-pyrrolidone | 0.01 | * | N.D. |
| 50 | 1,2,3-Trichloropropane | 0.01 | * | N.D. |
| 51 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich ⁽²⁾ (DIHP) | 0.01 | * | N.D. |
| 52 | Dichromium tris(chromate) ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 53 | Potassium hydroxyoctaoxidizincatedi- chromate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 54 | Pentazinc chromate octahydroxide ⁽³⁾ | 0.01 | N.D. | N.D. |
| 55 | Aluminosilicate refractory ceramic fibres (RCF) ⁽³⁾ | 0.01 | N.D. | N.D. |
| 56 | Zirconia aluminosilicate refractory ceramic fibres (Zr-RCF) ⁽³⁾ | 0.01 | N.D. | N.D. |
| 57 | Formaldehyde, oligomeric reaction products with aniline ⁽³⁾ | 0.05 | * | N.D. |
| 58 | Bis(2-methoxyethyl) phthalate (DMEP) | 0.005 | * | N.D. |
| 59 | 2-Methoxyaniline | 0.005 | * | N.D. |
| 60 | 4-(1,1,3,3-Tetramethylbutyl) phenol | 0.005 | * | N.D. |
| 61 | 1,2-Dichloroethane | 0.01 | * | N.D. |
| 62 | Bis(2-methoxyethyl) ether | 0.01 | * | N.D. |
| 63 | Arsenic acid ⁽¹⁾ | 0.01 | N.D. | N.D. |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 19 of 32

| NO. | SVHC | DL | 1 | 2 |
|-----|---|-------|-----------------------|------|
| | | | Test result (Unit: %) | |
| 64 | Calcium arsenate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 65 | Trilead diarsenate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 66 | N,N-Dimethylacetamide | 0.005 | * | N.D. |
| 67 | Phenolphthalein | 0.01 | * | N.D. |
| 68 | 2,2'-Dichloro-4,4'-methylene-dianiline (MOCA) | 0.005 | * | N.D. |
| 69 | Lead diazide ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 70 | Lead styphnate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 71 | Lead dipicrate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 72 | 1,2-Bis(2-methoxyethoxy) ethane | 0.01 | * | N.D. |
| 73 | 1,2-Dimethoxyethane ethylene glycol dimethyl ether | 0.01 | * | N.D. |
| 74 | Diboron trioxide ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 75 | Formamide | 0.01 | * | N.D. |
| 76 | Lead(II) bis(methanesulfonate) ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 77 | 1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC) | 0.01 | * | N.D. |
| 78 | 1,3,5-Tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ⁽⁴⁾ | 0.01 | * | N.D. |
| 79 | 4,4'-Bis(dimethylamino) benzophenone (Michler's ketone) | 0.01 | * | N.D. |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 20 of 32

| NO. | SVHC | DL | 1 | 2 |
|-----|--|-------|-----------------------|------|
| | | | Test result (Unit: %) | |
| 80 | N,N,N',N'-Tetramethyl-4,4'-methylenedianiline (Michler's base) | 0.01 | * | N.D. |
| 81 | [4-[4,4'-Bis(dimethylamino) benzhydrylidene] cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) | 0.01 | * | 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) | 0.01 | * | N.D. |
| 83 | α,α -Bis[4-(dimethylamino) phenyl]-4(phenylamino) naphthalene- 1-methanol (C.I. Solvent Blue 4) | 0.01 | * | N.D. |
| 84 | 4,4'-Bis(dimethylamino)-4''-(methylamino) trityl alcohol | 0.01 | * | N.D. |
| 85 | Bis(pentabromophenyl) ether (DecaBDE) | 0.005 | * | N.D. |
| 86 | Pentacosafuorotridecanoic acid | 0.005 | * | N.D. |
| 87 | Tricosafuorododecanoic acid | 0.005 | * | N.D. |
| 88 | Henicosafuoroundecanoic acid | 0.005 | * | N.D. |
| 89 | Heptacosafuorotetradecanoic acid | 0.005 | * | N.D. |
| 90 | 4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated-covering well-defined substances and UVCB substances, polymers and homologues ⁽²⁾ | 0.01 | * | N.D. |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 21 of 32

| NO. | SVHC | DL | 1 | 2 |
|-----|---|-------|-----------------------|------|
| | | | Test result (Unit: %) | |
| 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 ⁽²⁾ | 0.01 | * | N.D. |
| 92 | Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide)) | 0.005 | * | N.D. |
| 93 | Cyclohexane-1,2-dicarboxylic Anhydride, cis-cyclohexane -1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | 0.01 | * | N.D. |
| 94 | Hexahydromethylphthalicanhydride Hexahydro-4-methylphthalicanhydride Hexahydro-1-methylphthalicanhydride Hexahydro-3-methylphthalicanhydride | 0.01 | * | N.D. |
| 95 | Methoxy acetic acid | 0.01 | * | N.D. |
| 96 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 0.01 | * | N.D. |
| 97 | Diisopentylphthalate (DIPP) | 0.005 | * | N.D. |
| 98 | N-pentyl-isopentylphthalate | 0.005 | * | N.D. |
| 99 | 1,2-Diethoxyethane | 0.01 | * | N.D. |
| 100 | N,N-dimethylformamide | 0.01 | * | N.D. |
| 101 | Dibutyltin dichloride (DBT) | 0.01 | * | N.D. |
| 102 | Acetic acid, lead salt, basic ⁽¹⁾ | 0.01 | N.D. | N.D. |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 22 of 32

| NO. | SVHC | DL | 1 | 2 |
|-----|--|------|-----------------------|------|
| | | | Test result (Unit: %) | |
| 103 | Basic lead carbonate (Trilead bis(carbonate)dihydroxide) ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 104 | Lead oxide sulfate (Basic lead sulfate) ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 105 | [Phthalato(2-)] dioxotrilead (dibasic lead phthalate) | 0.01 | N.D. | N.D. |
| 106 | Dioxobis(stearato) trilead | 0.01 | N.D. | N.D. |
| 107 | Fatty acids, C16-18, lead salts C16-18 | 0.01 | N.D. | N.D. |
| 108 | Lead bis(tetrafluoroborate) ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 109 | Lead cyanamidate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 110 | Lead dinitrate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 111 | Lead oxide (Lead monoxide) ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 112 | Lead tetroxide (Orange lead) ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 113 | Lead titanium trioxide ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 114 | Lead titanium zirconium oxide ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 115 | Pentalead tetraoxide sulphate ⁽³⁾ | 0.01 | N.D. | N.D. |
| 116 | Pyrochlore, antimony lead yellow (C.I. Pigment Yellow 41) ⁽³⁾ | 0.01 | N.D. | N.D. |
| 117 | Silicic acid, barium salt, lead-doped ⁽³⁾ | 0.01 | N.D. | N.D. |
| 118 | Silicic acid, lead salt ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 119 | Sulfurous acid, lead salt, dibasic ⁽¹⁾ | 0.01 | N.D. | N.D. |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 23 of 32

| NO. | SVHC | DL | 1 | 2 |
|-----|--|-------|-----------------------|------|
| | | | Test result (Unit: %) | |
| 120 | Tetraethyllead | 0.01 | N.D. | N.D. |
| 121 | Tetralead trioxide sulphate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 122 | Trilead dioxide phosphonate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 123 | Furan | 0.01 | * | N.D. |
| 124 | Propylene oxide; 1,2-epoxypropane;methyloxirane | 0.01 | * | N.D. |
| 125 | Diethyl sulphate | 0.01 | * | N.D. |
| 126 | Dimethyl sulphate | 0.01 | * | N.D. |
| 127 | 3-Ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine | 0.01 | * | N.D. |
| 128 | Dinoseb | 0.01 | * | N.D. |
| 129 | 4,4'-Methylenedi-o-toluidine | 0.005 | * | N.D. |
| 130 | 4,4'-Oxydianiline and its salts | 0.005 | * | N.D. |
| 131 | 4-Aminoazobenzene | 0.005 | * | N.D. |
| 132 | 4-Methyl-m-phenylenediamine (2,4-Toluene-diamine) | 0.005 | * | N.D. |
| 133 | 6-Methoxy-m-toluidine (p-cresidine) | 0.005 | * | N.D. |
| 134 | Biphenyl-4-ylamine | 0.005 | * | N.D. |
| 135 | o-Aminoazotoluene | 0.005 | * | N.D. |
| 136 | o-Toluidine; 2-Aminotoluene | 0.005 | * | N.D. |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 24 of 32

| NO. | SVHC | DL | 1 | 2 |
|-----|--|-------|-----------------------|------|
| | | | Test result (Unit: %) | |
| 137 | N-methylacetamide | 0.01 | * | N.D. |
| 138 | 1-Bromopropane; n-propyl bromide | 0.01 | * | N.D. |
| 139 | Cadmium | 0.005 | N.D. | N.D. |
| 140 | Cadmium oxide ⁽¹⁾ | 0.005 | N.D. | N.D. |
| 141 | Dipentyl phthalate (DPP) | 0.005 | * | 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, which include any of the individual isomers and/or combinations thereof] ⁽²⁾ | 0.01 | * | N.D. |
| 143 | Ammonium pentadecafluorooctanoate (APFO) | 0.005 | * | N.D. |
| 144 | Pentadecafluorooctanoic acid (PFOA) | 0.005 | * | N.D. |
| 145 | Cadmium sulphide ⁽¹⁾ | 0.005 | N.D. | N.D. |
| 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) | 0.01 | * | N.D. |
| 147 | Dihexyl phthalate | 0.005 | * | N.D. |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 25 of 32

| NO. | SVHC | DL | 1 | 2 |
|-----|---|-----------------------|------|------|
| | | Test result (Unit: %) | | |
| 148 | Imidazolidine-2-thione (2-imidazoline-2-thiol) | 0.01 | * | N.D. |
| 149 | Trixylyl phosphate | 0.05 | * | N.D. |
| 150 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) | 0.01 | * | N.D. |
| 151 | Lead di(acetate) ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 0.005 | * | N.D. |
| 153 | Sodium perborate; perboric acid, sodium salt ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 154 | Sodium peroxometaborate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 155 | Cadmium chloride ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 156 | 2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole (UV-320) | 0.01 | * | N.D. |
| 157 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 0.01 | * | N.D. |
| 158 | 2-Ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) ⁽¹⁾⁽²⁾ | 0.05 | N.D. | N.D. |
| 159 | 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 & MOTE) ⁽¹⁾⁽²⁾⁽³⁾ | 0.05 | N.D. | N.D. |

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 26 of 32

| NO | SVHC | DL | 1 | 2 |
|-----|---|-----------------------|------|------|
| | | Test result (Unit: %) | | |
| 160 | Cadmium fluoride ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 161 | Cadmium sulphate ⁽¹⁾ | 0.01 | N.D. | N.D. |
| 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate ⁽²⁾ | 0.01 | * | N.D. |
| 163 | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1, 3-dioxane [1], 5-sec-butyl-2-(4,6-dimethyl- cyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof] ⁽²⁾ | 0.01 | * | N.D. |
| 164 | 1,3-Propanesultone | 0.01 | * | N.D. |
| 165 | 2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 0.01 | * | N.D. |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) | 0.01 | * | N.D. |
| 167 | Nitrobenzene | 0.01 | * | N.D. |
| 168 | Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9)-heptafluorononanoic acid and its sodium and ammonium salts ⁽²⁾ | 0.005 | * | N.D. |
| 169 | (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2 .2.1]heptane-2-one (4-methylbenzylidene camphor) | 0.01 | * | N.D. |

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Test Report

(SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 27 of 32

| NO. | SVHC | DL | 1 | 2 |
|-----|--|-----------------------|---|------|
| | | Test result (Unit: %) | | |
| 170 | 1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) | 0.01 | * | N.D. |
| 171 | Benzo[def]chrysene (Benzo[a]pyrene) | 0.001 | * | N.D. |
| 172 | Dicyclohexyl phthalate (DCHP) | 0.005 | * | N.D. |

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Test Report

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 28 of 32

(SVHC)

Note:

DL = Detection Limit

N.D. = Not Detected (<DL)

0.1 % = 1000 mg/kg = 1000 ppm

mg/kg = ppm

PBT=Persistent, bioaccumulative and toxic; vPvB=very Persistent very Bioaccumulative

- (1) Concentration value of cobalt dichloride is by the conversion from the test results of cobalt (Co) and chlorine (Cl). Concentration value of triethyl arsenate cobalt(II) sulfate, cobalt(II) dinitrate, cobalt(II) carbonate, cobalt(II) diacetate are by the conversion from the test results of cobalt (Co) and acid. Concentration value of diarsenic pentaoxide, diarsenic trioxide, sodium dichromate, lead hydrogen arsenate, boric acid, disodium tetraborate, anhydrous, tetraboron disodium heptaoxide, hydrate, sodium chromate, potassium chromate, potassium dichromate, ammonium dichromate, chromium trioxide, chromium hemitrioxide and acid from it's oligomer, strontium chromate, dichromium tris(chromate), potassium hydroxyoctaoxidizincatedi-chromate, arsenic acid, calcium arsenate, trilead diarsenate, lead diazide, lead styphnate, lead dipicrate, diboron trioxide, lead(II) bis(methanesulfonate), acetic acid, lead salt, basic, basic lead carbonate, lead oxide sulfate, lead bis(tetrafluoroborate), lead cyanamate, lead dinitrate, lead oxide, lead tetroxide, lead titanium trioxide, lead titanium zirconium oxide, silicic acid, lead salt, sulfurous acid, lead salt, dibasic, tetralead trioxide sulphate, trilead dioxide phosphonate, cadmium oxide, cadmium sulphide, lead di(acetate), sodium perborate; perboric acid, sodium salt, sodium peroxometaborate, cadmium chloride, DOTE, reaction mass of DOTE & MOTE, cadmium fluoride and cadmium sulphate are by the conversion from the test results of corresponding inorganic elements.
- (2) In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.
- (3) When tested substances contain variable compounds, the test results are calculated based on main constituents of the representative compounds for the substances. The test results of the representative compounds are calculated based on the result of specified heavy metal elements.
- (4) TGIC is a mixture and also contains β -TGIC. According to the ECHA's technical dossier the ratio of β -TGIC to TGIC is around 1 to 10. Therefore β -TGIC is issued based on the above-mentioned ratio.

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Date: 2016.06.29

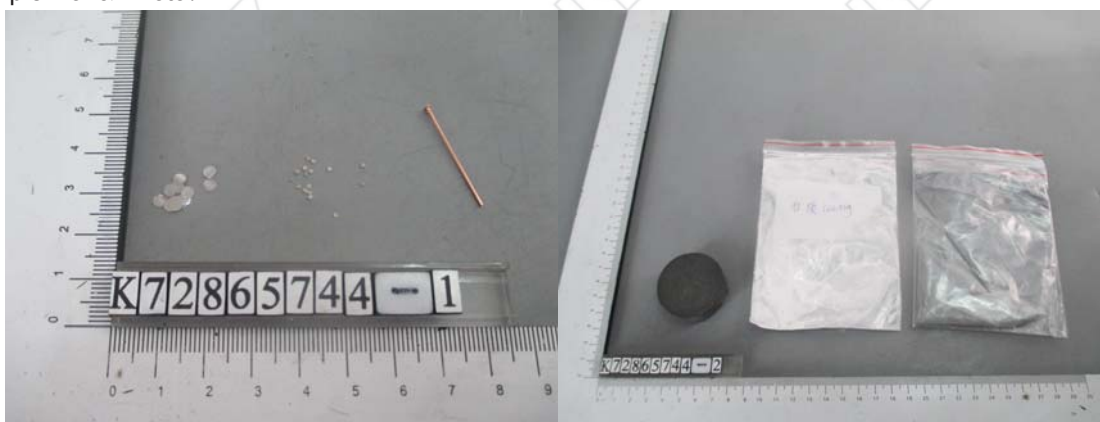
Page 29 of 32

(SVHC)

Remarks:

- (1) The chemical analysis of 172 SVHC is performed by means of currently available analytical Techniques in the list published by ECHA on 28 Oct 2008, 13 Jan 2010, 30 Mar 2010, 18 Jun 2010, 15 Dec 2010, 20 Jun 2011, 19 Dec 2011, 18 Jun 2012, 19 Dec 2012, 20 Jun 2013, 16 Dec 2013, 16 Jun 2014, 17 Dec 2014, 15 Jun 2015, 17 Dec 2015, and 29 Feb 2016 shall refer to:
<http://echa.europa.eu/candidate-list-table/>
- (2) In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1 % weight by weight (w/w).
- (3) Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1 % weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.
- (4) Requirement according to clients, the items with no test are marked with*.
- (5) The mixing sample test was performed as client's request. Result obtained only gives informality value and does not represent individual sample material.

Sample No. & Photo:



Pony authenticate the photo on original report only

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Test Report (SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 30 of 32

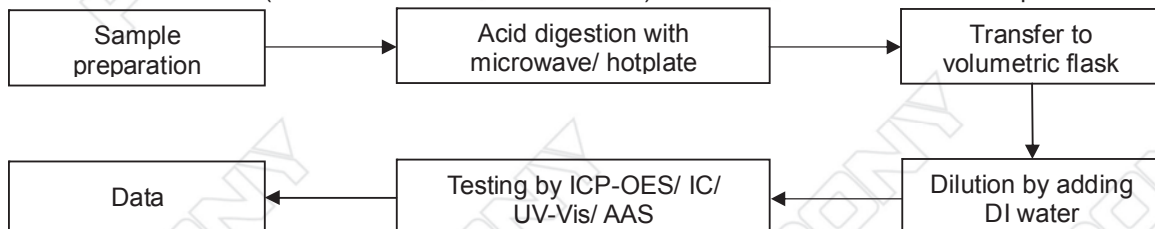
Measurement Flow-chart

Tested by: Liu Liang

Checked by: Wang Yunxia

Person in charge of the lab by: Cao Jia

- 1 Determination of triethyl arsenate/ cobalt dichloride/ diarsenic pentaoxide/ diarsenic trioxide/ sodium dichromate/ lead hydrogen arsenate/ lead chromate/ lead chromate molybdate sulphate red/ lead sulfochromate yellow/ boric acid/ disodium tetraborate, anhydrous/ tetraboron disodium heptaoxide, hydrate/ sodium chromate/ potassium chromate/ potassium dichromate/ ammonium dichromate/ cobalt(II) sulfate/ cobalt(II) dinitrate/ cobalt(II) carbonate/ cobalt(II) diacetate/ chromium trioxide/ chromium hemitrioxide and acid from it's oligomer/ strontium chromate/ hydrazine/ dichromium tris(chromate)/ potassium hydroxyoctaoxidizincatedichromate/ pentazinc chromate octahydroxide/ aluminosilicate refractory ceramic fibres/ zirconia aluminosilicate refractory ceramic fibres/ arsenic acid/ calcium arsenate/ trilead diarsenate/ lead diazide/ lead styphnate/ lead dipicrate/ diboron trioxide/ lead(II) bis(methanesulfonate)/ acetic acid, lead salt, basic/ basic lead carbonate/ lead oxide sulfate/ lead bis(tetrafluoroborate)/ lead cyanamide/ lead dinitrate/ lead oxide/ lead tetroxide/ lead titanium trioxide/ lead titanium zirconium oxide/ pentalead tetraoxide sulphate/ pyrochlore, antimony lead yellow/ silicic acid, barium salt, lead-doped/ silicic acid, lead salt/ sulfurous acid, lead salt, dibasic/ tetralead trioxide sulphate/ trilead dioxide phosphonate/ cadmium/ cadmium oxide/ cadmium sulphide/ lead di(acetate)/ sodium perborate; perboric acid, sodium salt/ sodium peroxometaborate/ cadmium chloride/ 2-Ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) / 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 & MOTE)/ cadmium fluoride/ cadmium sulphate



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Test Report

(SVHC)

NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 31 of 32

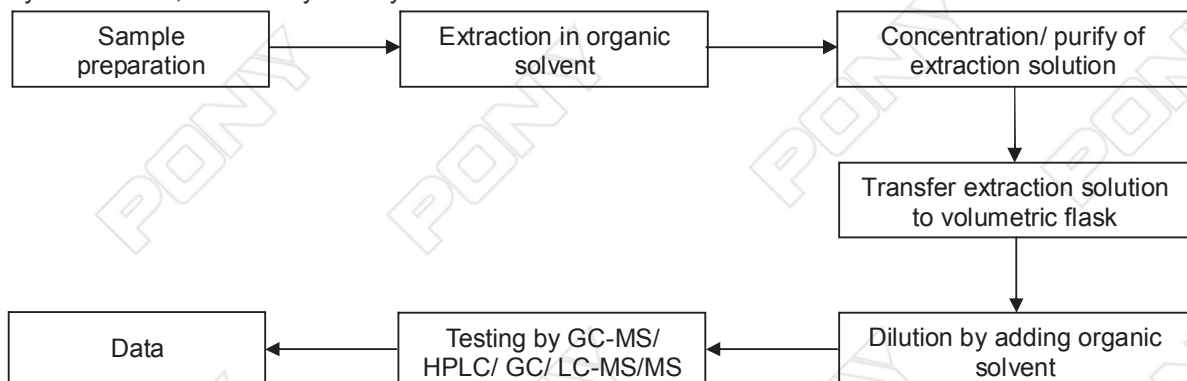
Measurement Flow-chart

Tested by: Liu Liang

Checked by: Wang Yunxia

Person in charge of the lab by: Cao Jia

- 2 Determination of anthracene/ benzyl butyl phthalate/ dibutyl phthalate/ bis(2-ethylhexyl) phthalate/ HBCDD/ 4,4'-diaminodiphenylmethane/ short chain chlorinated paraffins/ musk xylene/ bis(tributyltin) oxide/ 2,4-dinitrotoluene/ anthracene oil/ anthracene oil, anthracene paste, distn lights/ anthracene oil, anthracene paste, anthracene fraction/ anthracene oil, anthracene-low/ anthracene oil, anthracene paste / diisobutyl phthalate/ tris(2-chloroethyl) phosphate/ coal tar pitch, high temperature/ acrylamide/ trichloroethylene/ 2-methoxyethanol/ 2-ethoxyethanol/ 2-ethoxyethyl acetate/ 1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters/ 1-methyl-2-pyrrolidone/ 1,2,3-trichloropropane/ 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich/ bis(2-methoxyethyl) phthalate/ 2-methoxyaniline/ 4-(1,1,3,3-tetramethylbutyl) phenol/ 1,2-dichloroethane/ bis(2-methoxyethyl) ether/ N,N-dimethylacetamide/ phenolphthalein/ 2,2'-dichloro-4,4'-methylenedianiline/ 1,2-bis(2-methoxyethoxy) ethane/ 1,2-dimethoxyethane ethylene glycol dimethyl ether/ formamide/ 1,3,5-tris(oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H,5H)-trione/ 1,3,5-tris[(2S and 2R)-2,3- epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione/ 4,4'-bis(dimethylamino) benzophenone/ N,N,N',N'-tetramethyl-4,4'-methylenedianiline/ [4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride/ [4-[4-anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chlorid/ α,α -bis[4-(dimethylamino) phenyl]-4(phenylamino) naphthalene-1-methanol/ 4,4'-bis(dimethylamino)-4''-(methylamino) trityl alcohol/ bis(pentabromophenyl) ether/ pentacosfluorotridecanoic acid/ tricosfluorododecanoic acid/ hencicosfluoroundecanoic acid/ heptacosfluorotetradecanoic acid/ 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated-/ 4-nonylphenol, branched and linear -substances/ diazene-1,2-dicarboxamide/ cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane -1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride



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NO.: BDCEOZ2K72865744

Date: 2016.06.29

Page 32 of 32

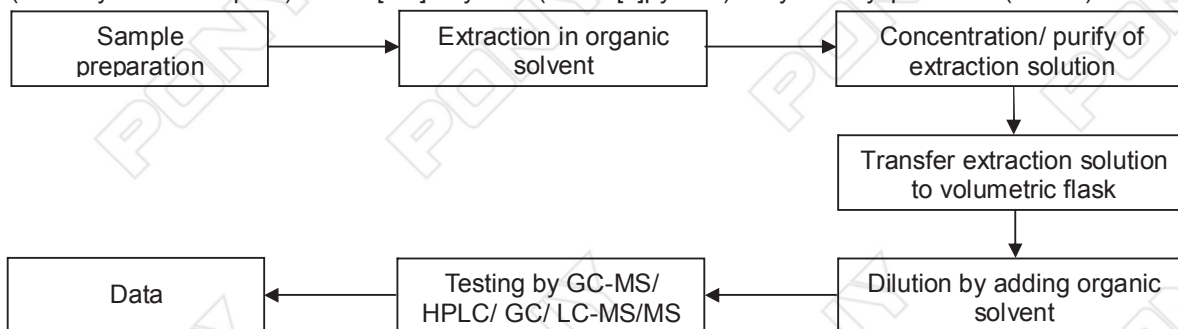
Measurement Flow-chart

Tested by: Liu Liang

Checked by: Wang Yunxia

Person in charge of the lab by: Cao Jia

- 3 Determination of hexahydromethylphthalicanhydride, hexahydro-4- methylphthalicanhydride, hexahydro-1-methylphthalicanhydride, hexahydro-3-methylphthalicanhydride/ methoxy acetic acid/ 1,2-benzenedicarboxylic acid, dipentylester, branched and linear/ diisopentylphthalate/ n-pentyl -isopentylphthalate/ 1,2-diethoxyethane/ N,N-dimethylformamide/ dibutyltin dichloride/ [phthalato(2-)] dioxotrilead/ dioxobis(stearato) trilead/ fatty acids, C16-18, lead salts C16-18/ tetraethyllead/ furan/ propylene oxide; 1,2-epoxypropane;methyloxirane/ diethyl sulphate/ dimethyl sulphate/ 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine/ dinoseb/ 4,4'-methylenedi-o-toluidine/ 4,4'-oxydianiline and its salts/ 4-aminoazobenzene/ 4-methyl-m- phenylenediamine/ 6-methoxy-m- toluidine/ biphenyl-4-ylamine/ o-aminoazotoluene/ o-toluidine/ N-methylacetamide/ 1-bromopropane/dipentyl phthalate/ 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]/ ammonium pentadecafluorooctanoate,/ pentadecafluorooctanoic acid/ C.I. Direct Black 38/ dihexyl phthalate/ imidazolidine-2-thione/ trixylyl phosphate/ C.I. Direct Red 28/ 1,2-benzenedicarboxylic acid, dihexyl ester, branched and linear/ 2-(2'-Hydroxy- 3',5'-di-tert-b utylphenyl)benzotriazole/ 2-(2h-benzotriazol-2-yl)-4, 6-ditertpentylphenol/ 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate/ 5-sec-butyl-2-(2,4- dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethyl- cyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]/ 1,3-propanesultone/ UV-327/ UV-350/ nitrobenzene/ perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9) -heptadecafluorononanoic acid and its sodium and ammonium salts/(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptane-2-one (4-methylbenzylidene camphor)/ 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)/ benzo[def]chrysene (benzo[a]pyrene)/ dicyclohexyl phthalate (DCHP)



End of Report

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