

Test Report (SVHC)

No. : CC/2011/C0134B Date : 2013/01/24 Page : 1 of 40

BRAINCHILD ELECTRONIC CO., LTD.
NO. 209, CHUNG YANG RD., NAN KANG DIST, TAIPEI, TAIWAN, R.O.C. 11573



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

Sample Description : HUMAN MACHINE INTERFACE (HMI)
Style/Item No. : HMI 750 FINISHED GOODS
Sample Receiving Date : 2011/12/23
Testing Period : 2011/12/23 TO 2012/01/04 AND 2012/06/22 TO 2012/07/05 AND
2012/12/22 TO 2013/01/24

Test Requested : 138 Substances of Very High Concern (SVHC) screening. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2012 December 17, regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Summary : According to the interpretation of ECHA and the majority of EU member states on the definition of an article as well as the specified scope and analytical technique, concentrations of 113 items of SVHC are <0.1% in the submitted sample(s). **【See note N/A*】**

* This report is added testing by CC/2011/C0134 and combined with CC/2011/C0134A *



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Sample : HUMAN MACHINE INTERFACE (HMI)

Test Method : SGS In-House method-RSTS-EE-SVHC-007. Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/MS/DAD.

Remark:

- The chemical analysis of 138 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2012 December 17.
Refer to: <http://echa.europa.eu/web/guest/candidate-list-table>
- In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 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).
- 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.
- If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Result(s)

Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Anthracene (CAS No.: 120-12-7)	n.d.	0.05	PBT
4,4' - Diaminodiphenylmethane (CAS No.: 101-77-9)	n.d.	0.05	CC2
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	n.d.	0.05	TRC2
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	n.d.	0.05	TRC2
Bis (2-ethyl(hexyl)phthalate) (DEHP) (CAS No.: 117-81-7)	n.d.	0.05	TRC2
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2)	n.d.	0.05	vPvB
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	n.d.	0.05	PBT
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	n.d.	0.05	PBT
Bis(tributyltin)oxide*** (CAS No.: 56-35-9)	n.d.	-	PBT
Cobalt dichloride (CAS No.: 7646-79-9)	n.d.	0.005	CC2; TRC2

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Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	n.d.	-	CC1
Diarsenic trioxide*** (CAS No.: 1327-53-3)	n.d.	-	CC1
Triethyl arsenate*** (CAS No.: 15606-95-8)	n.d.	-	CC1
Lead hydrogen arsenate (CAS No.: 7784-40-9) (※1)	n.d.	-	CC1; TRC1
Sodium chromate*** (CAS No.: 7775-11-3)	n.d.	-	CC2; MC2; TRC2
Ammonium dichromate*** (CAS No.: 7789-09-5)	n.d.	-	CC2; MC2; TRC2
Potassium dichromate*** (CAS No.: 7778-50-9)	n.d.	-	CC2; MC2; TRC2
Potassium chromate*** (CAS No.: 7789-00-6)	n.d.	-	CC2; MC2
Sodium dichromate*** (CAS No.: 10588-01-9, 7789-12-0(*))	n.d.	-	CC2; MC2; TRC2
Chromium trioxide*** (CAS No.: 1333-82-0)	n.d.	-	CC1; MC2
Acids generated from chromium trioxide and their oligomers: Chromic acid*** (CAS No.: 7738-94-5)	n.d.	-	CC2
Acids generated from chromium trioxide and their oligomers: Dichromic acid*** (CAS No.: 13530-68-2)	n.d.	-	CC2
Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid (* 1)	n.d.	-	CC2
Strontium chromate*** (CAS No.: 7789-06-2)	n.d.	-	CC2
Anthracene oil (CAS No.: 90640-80-5) (**)	n.d.	0.05	PBT; vPvB; CC2
Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
Pitch, coal tar, high-temp. (CAS No.: 65996-93-2) (**)	n.d.	0.05	PBT; vPvB; CC2
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	n.d.	0.05	TRC2
2,4-Dinitrotoluene (CAS No.: 121-14-2)	n.d.	0.05	CC2
Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	n.d.	0.05	TRC2
Lead chromate (CAS No.: 7758-97-6)	n.d.	0.01	CC2; TRC1
Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 12656-85-8)	n.d.	0.01	CC2; TRC1

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Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 1344-37-2)	n.d.	0.01	CC2; TRC1
Acrylamide (CAS No.: 79-06-1)	n.d.	0.05	CC2; MC2
Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	n.d.	-	TRC2
Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	n.d.	-	TRC2
Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267-73-1) (*2)	n.d.	-	TRC2
Trichloroethylene (CAS No.: 79-01-6)	n.d.	0.05	CC2
Cobalt(II) sulphate*** (CAS No.: 10124-43-3)	0.020	-	CC2; TRC2
Cobalt(II) dinitrate*** (CAS No.: 10141-05-6)	0.024	-	CC2; TRC2
Cobalt(II) carbonate*** (CAS No.: 513-79-1)	0.016	-	CC2; TRC2
Cobalt(II) diacetate*** (CAS No.: 71-48-7)	0.023	-	CC2; TRC2
2-Methoxyethanol (CAS No.: 109-86-4)	n.d.	0.05	TRC2
2-Ethoxyethanol (CAS No.: 110-80-5)	n.d.	0.05	TRC2
2-ethoxyethyl acetate (CAS No.: 111-15-9)	n.d.	0.05	TRC2
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (CAS No.: 68515-42-4)	n.d.	0.05	TRC2
Hydrazine (CAS No.: 7803-57-8; 302-01-2)	n.d.	0.05	CC2
1-methyl-2-pyrrolidone (CAS No.: 872-50-4)	n.d.	0.05	TRC2
1,2,3-trichloropropane (CAS No.: 96-18-4)	n.d.	0.05	CC2; TRC2
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	n.d.	0.05	TRC2
Arsenic acid*** (CAS No.: 7778-39-4)	n.d.	-	CC1
Calcium arsenate*** (CAS No.: 7778-44-1)	n.d.	-	CC1
Trilead diarsenate*** (CAS No.: 3687-31-8) (※1)	n.d.	-	CC1; TRC1
Lead diazide, Lead azide (CAS No.: 13424-46-9)	N/A*	-	TRC1
Lead styphnate (CAS No.: 15245-44-0)	N/A*	-	TRC1
Lead dipicrate (CAS No.: 6477-64-1)	N/A*	-	TRC1
Dichromium tris (chromate)*** (CAS No.: 24613-89-6)	n.d.	-	CC2
Potassium hydroxyoctaoxidizincatedi- chromate*** (CAS No.: 11103-86-9)	n.d.	-	CC1

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Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Pentazinc chromate octahydroxide*** (CAS No.: 49663-84-5)	n.d.	-	CC1
Formaldehyde, oligomeric reaction products with aniline (technical MDA) (CAS No.: 25214-70-4)	n.d.	0.05	CC2
Bis(2-methoxyethyl) phthalate (CAS No.: 117-82-8)	n.d.	0.05	TRC2
2-Methoxyaniline; o-Anisidine (CAS No.: 90-04-0)	n.d.	0.05	CC2
4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)	n.d.	0.05	Equivalent concern
1,2-Dichloroethane (CAS No.: 107-06-2)	n.d.	0.05	CC2
Bis(2-methoxyethyl) ether (CAS No.: 111-96-6)	n.d.	0.05	TRC2
N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)	n.d.	0.05	TRC2
2,2'-dichloro- 4,4'-methylenedianiline (MOCA) (CAS No.: 101-14-4)	n.d.	0.05	CC2
Phenolphthalein (CAS No.: 77-09-8)	n.d.	0.05	CC2
Aluminosilicate, Refractory Ceramic Fibres [oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges]	n.d.	0.05	CC2
Zirconia Aluminosilicate, Refractory Ceramic Fibres [oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges]	n.d.	0.05	CC2
1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme) (CAS No.: 112-49-2)	n.d.	0.05	TRC2
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) (CAS No.: 110-71-4)	n.d.	0.05	TRC2
Formamide (CAS No.: 75-12-7)	n.d.	0.05	TRC2
Lead(II) bis(methanesulfonate) (CAS No.: 17570-76-2)	N/A*	-	TRC2
TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6 (1H,3H,5H)-trione) (CAS No.: 2451-62-9)	n.d.	0.05	MC2
β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) (CAS No.: 59653-74-6) (※3)	n.d.	0.05	MC2
4,4'-bis (dimethylamino) benzophenone (Michler's ketone) (CAS No.: 90-94-8)	n.d.	0.05	CC2
N,N,N',N'-tetramethyl- 4,4'-methylenedianiline (Michler's base) (CAS No.: 101-61-1)	n.d.	0.05	CC2

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Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) (CAS No.: 548-62-9) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
[4-[[4-anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) (CAS No.: 2580-56-5) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) (CAS No.: 6786-83-0) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
Diboron trioxide*** (CAS No.: 1303-86-2)	n.d.	-	TRC2
4,4'-bis (dimethylamino)-4''-(methylamino) trityl alcohol (CAS No.: 561-41-1) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
Bis(pentabromophenyl) ether (DecaBDE) (CAS No.: 1163-19-5)	n.d.	0.05	PBT
Pentacosafuorotridecanoic acid (CAS No.: 72629-94-8)	n.d.	0.05	PBT
Tricosafuorododecanoic acid (CAS No.: 307-55-1)	n.d.	0.05	PBT
Henicosafuoroundecanoic acid (CAS No.: 2058-94-8)	n.d.	0.05	PBT
Heptacosafuorotetradecanoic acid (CAS No.: 376-06-7)	n.d.	0.05	PBT
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	n.d.	0.05	Equivalent concern
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	n.d.	0.05	Equivalent concern
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (CAS No.: 123-77-3)	n.d.	0.05	Equivalent concern
Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) (CAS No.: 85-42-7, 13149-00-3, 14166-21-3)	n.d.	0.05	Equivalent concern
Hexahydromethylphthalic anhydride (CAS No.: 25550-51-0) Hexahydro-4-methylphthalic anhydride (CAS No.: 19438-60-9) Hexahydro-1-methylphthalic anhydride (CAS No.: 48122-14-1) Hexahydro-3-methylphthalic anhydride (CAS No.: 57110-29-9)	n.d.	0.05	Equivalent concern

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Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Methoxy acetic acid (CAS No.: 625-45-6)	n.d.	0.05	TRC2
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	n.d.	0.05	TRC2
Diisopentylphthalate (CAS No.: 605-50-5)	n.d.	0.05	TRC2
N-pentyl-isopentylphthalate (CAS No.: 776297-69-9)	n.d.	0.05	TRC2
1,2-Diethoxyethane (CAS No.: 629-14-1)	n.d.	0.05	TRC2
N,N-dimethylformamide; dimethyl formamide (CAS No.: 68-12-2)	n.d.	0.05	TRC2
Dibutyltin dichloride (DBTC) (CAS No.: 683-18-1)	n.d.	0.05	TRC2
Acetic acid, lead salt, basic (CAS No.: 51404-69-4)	N/A*	-	TRC1
Trilead bis(carbonate) dihydroxide (basic lead carbonate) (CAS No.: 1319-46-6)	N/A*	-	TRC1
Lead oxide sulfate (CAS No.: 12036-76-9)	N/A*	-	TRC1
[Phthalato(2-)] dioxotrilead (CAS No.: 69011-06-9)	N/A*	-	TRC1
Dioxobis(stearato) trilead (CAS No.: 12578-12-0)	N/A*	-	TRC1
Fatty acids, C16-18, lead salts (CAS No.: 91031-62-8)	N/A*	-	TRC1
Lead cyanamidate (CAS No.: 20837-86-9)	N/A*	-	TRC1
Lead dinitrate (CAS No.: 10099-74-8)	N/A*	-	TRC1
Lead oxide (lead monoxide) (CAS No.: 1317-36-8)	N/A*	-	TRC1
Lead tetroxide (orange lead) (CAS No.: 1314-41-6)	N/A*	-	TRC1
Pentalead tetraoxide sulphate (CAS No.: 12065-90-6)	N/A*	-	TRC1
Silicic acid, lead salt (CAS No.: 11120-22-2)	N/A*	-	TRC1
Sulfurous acid, lead salt, dibasic (CAS No.: 62229-08-7)	N/A*	-	TRC1
Tetraethyllead (CAS No.: 78-00-2)	N/A*	-	TRC1
Tetralead trioxide sulphate (CAS No.: 12202-17-4)	N/A*	-	TRC1
Lead bis(tetrafluoroborate) (CAS No.: 13814-96-5)	N/A*	-	TRC1
Lead titanium trioxide (CAS No.: 12060-00-3)	N/A*	-	TRC1
Lead Titanium Zirconium Oxide (CAS No.: 12626-81-2)	N/A*	-	TRC1
Pyrochlore, antimony lead yellow (CAS No.: 8012-00-8)	N/A*	-	TRC1
Trilead dioxide phosphonate (CAS No.: 12141-20-7)	N/A*	-	TRC1
Silicic acid, barium salt, lead-doped (※4) (CAS No.: 68784-75-8)	N/A*	0.05	TRC1
Furan (CAS No.: 110-00-9)	n.d.	0.05	CC2

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BRAINCHILD ELECTRONIC CO., LTD.
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Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Propylene oxide; 1,2-epoxypropane; methyloxirane (CAS No.: 75-56-9)	n.d.	0.05	CC2; MC2
Diethyl sulphate (CAS No.: 64-67-5)	n.d.	0.05	CC2; MC2
Dimethyl sulphate (CAS No.: 77-78-1)	n.d.	0.05	CC2
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (CAS No.: 143860-04-2)	n.d.	0.05	TRC2
Dinoseb (CAS No.: 88-85-7)	n.d.	0.05	TRC2
4,4'-methylenedi-o-toluidine (CAS No.: 838-88-0)	n.d.	0.05	CC2
4,4'-oxydianiline and its salts (CAS No.: 101-80-4)	n.d.	0.05	CC2; MC2
4-Aminoazobenzene; 4-Phenylazoaniline (CAS No.: 60-09-3)	n.d.	0.05	CC2
4-methyl-m-phenylenediamine (2,4-toluenediamine) (CAS No.: 95-80-7)	n.d.	0.05	CC2
6-methoxy-m-toluidine (p-cresidine) (CAS No.: 120-71-8)	n.d.	0.05	CC2
Biphenyl-4-ylamine (CAS No.: 92-67-1)	n.d.	0.05	CC1
o-aminoazotoluene (CAS No.: 97-56-3)	n.d.	0.05	CC2
o-Toluidine; 2-Aminotoluene (CAS No.: 95-53-4)	n.d.	0.05	CC2
N-methylacetamide (CAS No.: 79-16-3)	n.d.	0.05	TRC2
1-bromopropane (CAS No.: 106-94-5)	n.d.	0.05	TRC2

Note :

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. n.d.= not detected = below Reporting Limit
3. RL = Reporting Limit
4. Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006.
5. Please refer to Appendix C to find the concentration and the weight of each tested unit.
6. " - " = Not Regulated
7. (*): conc. of Sodium dichromate dihydrate (CAS No.: 7789-12-0) = conc. of sodium dichromate × 1.1374
8. (**): The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
9. (* 1): Oligomers of chromic acid and dichromic acid : since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.
10. (* 2): Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).

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11. ***: The substance was calculated by the test results of Tributyl Tin or element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt, Barium respectively).

$$AX = A \times F$$

AX	A	F
Diarsenic pentaoxide	Arsenic	1.5339
Diarsenic trioxide		1.3203
Triethyl arsenate		3.0179
Lead hydrogen arsenate		4.6332
Lead dipicrate	Lead	1.6753
Lead styphnate		3.2017
Lead stypnate		2.1732
Lead diazide, Lead azide		1.4056
Trilead diarsenate		1.447
Arsenic acid	Arsenic	6.0025
Calcium arsenate		1.8946
Sodium dichromate	Hexavalent Chromium Cr(VI)	2.6566
Sodium chromate		2.5192
Ammonium dichromate		3.1151
Potassium dichromate		2.4239
Potassium chromate		2.8289
Chromium trioxide		3.7347
Chromic acid		1.9231
Dichromic acid		2.2696
Strontium chromate		2.0963
Pentazinc chromate octahydroxide		3.9159
Potassium hydroxyoctaoxodizincatedi-chromate		11.1345
Dichromium tris (chromate)		4.0277
Bis(tributyltin)oxide		Tributyl Tin (TBT)
Cobalt(II) sulphate	Cobalt	1.0276
Cobalt(II) dinitrate		2.63
Cobalt(II) carbonate		3.1042
Cobalt(II) diacetate		2.0183
		3.0038

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AX = A x F

AX	A	F
Diboron trioxide	Boron	3.2199
Boric acid		5.7195
Disodium tetraborate, anhydrous		4.6531
Disodium tetraborate, pentahydrate		6.7361
Disodium tetraborate, decahydrate		8.8191
Lead(II) bis(methanesulfonate)	Lead	1.9179
Acetic acid, lead salt, basic		1.367
Trilead bis(carbonate) dihydroxide (basic lead carbonate)		1.2478
Lead oxide sulfate		1.2704
[Phthalato(2-)] dioxotrilead		1.3155
Dioxobis(stearato) trilead		1.9635
Fatty acids, C16-18, lead salts		3.7362
Lead cyanamidate		1.2029
Lead dinitrate		1.5985
Lead oxide (lead monoxide)		1.0772
Lead tetroxide (orange lead)		1.103
Pentalead tetraoxide sulphate		1.1545
Silicic acid, lead salt		1.3672
Sulfurous acid, lead salt, dibasic		1.2753
Tetraethyllead		1.561
Tetralead trioxide sulphate		1.1738
Lead bis(tetrafluoroborate)		1.8379
Lead titanium trioxide		1.4627
Lead Titanium Zirconium Oxide		1.9029
Pyrochlore, antimony lead yellow		1.8579
Trilead dioxide phosphonate	1.1801	
Silicic acid, barium salt, lead-doped	Barium	1.9916

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The test result is given as:

Substance Name	Concentration of Article (%)	RL (%)
Tributyl Tin (TBT)	n.d.	0.05
Arsenic (As) (※2)	n.d.	0.005
Lead (Pb)	0.906	0.005
Hexavalent Chromium Cr(VI)	n.d.	0.005
Boron (B) (※2)	n.d.	0.005
Cobalt (Co)	0.008	0.005
Barium (Ba)	0.074	0.005

12. (※1): Regarding the compound containing arsenic and lead, lead and arsenic are tested and respectively used for the calculation of the independent concentration of the compound containing arsenic and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.
13. (※2): The extracted soluble Boron / Arsenic are detected by ICP-AES.
14. (※3): 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.
15. (※4): Only if both qualitative results of lead and silicon are positive, the test result of the compound will be calculated based on the concentration of barium.
16. N/A* = The item can't directly be identified. Therefore the specific element(s) of SVHC was analysed according to the recommendation from the ECHA. The submitted sample was found to contain detectable amount of specific element(s) of SVHC. Upon further test verification or information provided from the client, the source of the detectable specific element(s) can't be identified from SVHC. Therefore the test result is expressed as N/A*.

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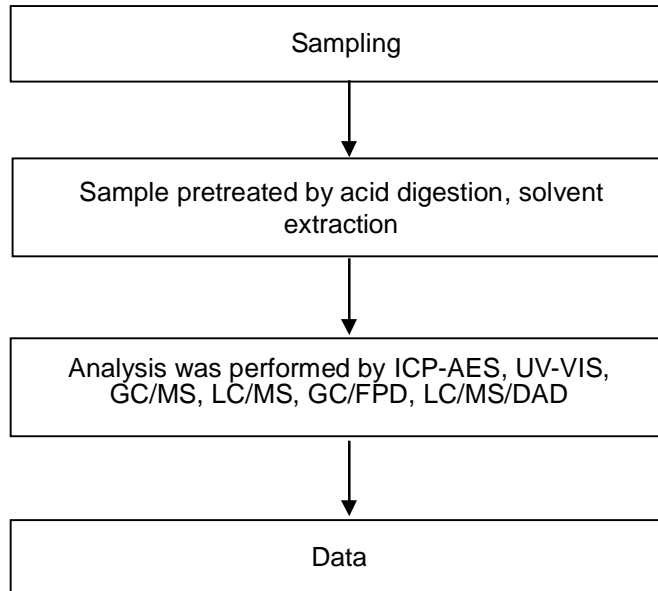
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Analytical flow chart of SVHC

- Name of the person who made measurement: Roman Wong / Stacy Chou / Climbgreat Yang
- Name of the person in charge of measurement: Chenyu Kung



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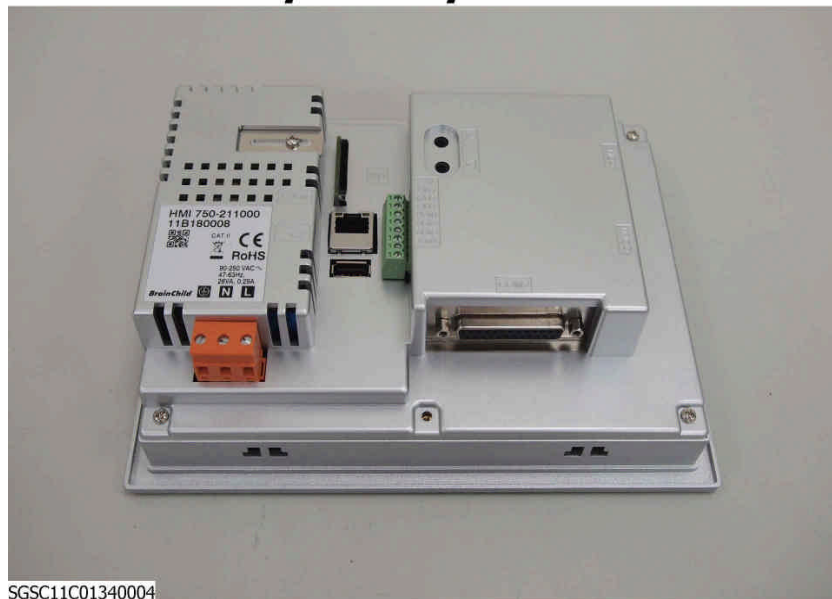
* The tested sample / part is marked by an arrow if it's shown on the photo. *

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SGSC11C01340003

CC/2011/C0134



SGSC11C01340004

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【Appendix A】

Classification	Definition under 67/548/EEC and Regulation (EC) No 1907/2006
CC1 (Carcinogen Category 1)	Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer.
CC2 (Carcinogen Category 2)	Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development of cancer. Generally on the basis of: - appropriate long-term animal studies - other relevant information.
MC1 (Mutagen Category 1)	Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage.
MC2 (Mutagen Category 2)	Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of: - appropriate animal studies, - other relevant information.
TRC1 (Toxic to Reproduction Category 1)	Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility. Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny.
TRC2 (Toxic to Reproduction Category 2)	Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of: - clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects, - other relevant information. Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of: - clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects, - other relevant information.
PBT & vPvB	Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.

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【Appendix B】

SVHC SURVEY FORM			
Company Name	BRAINCHILD ELECTRONIC CO., LTD.		
Product name	HUMAN MACHINE INTERFACE (HMI)		
Product/Sampling weight	1260.1 g		
Report No.	CC/2011/C0134B		
Substance identification			
Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
Anthracene	n.d.	N/A	No
4,4' - Diaminodiphenylmethane	n.d.	N/A	No
DBP (Dibutyl phthalate)	n.d.	N/A	No
BBP (Benzyl butyl phthalate)	n.d.	N/A	No
Bis (2-ethyl(hexyl)phthalate) (DEHP)	n.d.	N/A	No
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	N/A	No
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)	n.d.	N/A	No
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	N/A	No
Bis(tributyltin)oxide	n.d.	N/A	No
Cobalt dichloride	n.d.	N/A	No
Diarsenic pentaoxide	n.d.	N/A	No
Diarsenic trioxide	n.d.	N/A	No
Triethyl arsenate	n.d.	N/A	No
Lead hydrogen arsenate	n.d.	N/A	No
Sodium chromate	n.d.	N/A	No
Ammonium dichromate	n.d.	N/A	No
Potassium dichromate	n.d.	N/A	No
Potassium chromate	n.d.	N/A	No
Sodium dichromate	n.d.	N/A	No
Chromium trioxide	n.d.	N/A	No

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Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
Acids generated from chromium trioxide and their oligomers: Chromic acid	n.d.	N/A	No
Acids generated from chromium trioxide and their oligomers: Dichromic acid	n.d.	N/A	No
Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid	n.d.	N/A	No
Strontium chromate	n.d.	N/A	No
Anthracene oil	n.d.	N/A	No
Anthracene oil, anthracene paste, distn. Lights	n.d.	N/A	No
Anthracene oil, anthracene paste, anthracene fraction	n.d.	N/A	No
Anthracene oil, anthracene-low	n.d.	N/A	No
Anthracene oil, anthracene paste	n.d.	N/A	No
Pitch, coal tar, high-temp.	n.d.	N/A	No
DIBP (Di-isobutyl phthalate)	n.d.	N/A	No
2,4-Dinitrotoluene	n.d.	N/A	No
Tris(2-chloroethyl) phosphate (TCEP)	n.d.	N/A	No
Lead chromate	n.d.	N/A	No
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	N/A	No
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	N/A	No
Acrylamide	n.d.	N/A	No
Boric acid	n.d.	N/A	No
Disodium tetraborate, anhydrous	n.d.	N/A	No
Tetraboron disodium heptaoxide, hydrate	n.d.	N/A	No
Trichloroethylene	n.d.	N/A	No
Cobalt(II) sulphate	0.020	252	No
Cobalt(II) dinitrate	0.024	302	No
Cobalt(II) carbonate	0.016	202	No
Cobalt(II) diacetate	0.023	290	No
2-Methoxyethanol	n.d.	N/A	No
2-Ethoxyethanol	n.d.	N/A	No

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BRAINCHILD ELECTRONIC CO., LTD.
NO. 209, CHUNG YANG RD., NAN KANG DIST, TAIPEI, TAIWAN, R.O.C. 11573



Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
2-ethoxyethyl acetate	n.d.	N/A	No
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	n.d.	N/A	No
Hydrazine	n.d.	N/A	No
1-methyl-2-pyrrolidone	n.d.	N/A	No
1,2,3-trichloropropane	n.d.	N/A	No
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	n.d.	N/A	No
Arsenic acid	n.d.	N/A	No
Calcium arsenate	n.d.	N/A	No
Trilead diarsenate	n.d.	N/A	No
Lead diazide, Lead azide	N/A*	N/A	N/A
Lead styphnate	N/A*	N/A	N/A
Lead dipicrate	N/A*	N/A	N/A
Dichromium tris (chromate)	n.d.	N/A	No
Potassium hydroxyoctaoxidizincatedi-chromate	n.d.	N/A	No
Pentazinc chromate octahydroxide	n.d.	N/A	No
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	n.d.	N/A	No
Bis(2-methoxyethyl) phthalate	n.d.	N/A	No
2-Methoxyaniline; o-Anisidine	n.d.	N/A	No
4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	n.d.	N/A	No
1,2-Dichloroethane	n.d.	N/A	No
Bis(2-methoxyethyl) ether	n.d.	N/A	No
N,N-dimethylacetamide (DMAC)	n.d.	N/A	No
2,2'-dichloro- 4,4'-methylenedianiline (MOCA)	n.d.	N/A	No
Phenolphthalein	n.d.	N/A	No
Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges】	n.d.	N/A	No

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Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
Zirconia Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges】	n.d.	N/A	No
1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme)	n.d.	N/A	No
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	n.d.	N/A	No
Formamide	n.d.	N/A	No
Lead(II) bis(methanesulfonate)	N/A*	N/A	N/A
TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6 (1H,3H,5H)-trione)	n.d.	N/A	No
β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	n.d.	N/A	No
4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	n.d.	N/A	No
N,N,N',N'-tetramethyl- 4,4'-methylenedianiline (Michler's base)	n.d.	N/A	No
[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 or Michler's base]	n.d.	N/A	No
[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 or Michler's base]	n.d.	N/A	No
α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	N/A	No
Diboron trioxide	n.d.	N/A	No
4,4'-bis (dimethylamino)-4''-(methylamino) trityl alcohol [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	N/A	No
Bis(pentabromophenyl) ether (DecaBDE)	n.d.	N/A	No
Pentacosafuorotridecanoic acid	n.d.	N/A	No
Tricosafuorododecanoic acid	n.d.	N/A	No
Henicosafuoroundecanoic acid	n.d.	N/A	No
Heptacosafuorotetradecanoic acid	n.d.	N/A	No
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	n.d.	N/A	No

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Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
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	n.d.	N/A	No
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	n.d.	N/A	No
Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	n.d.	N/A	No
Hexahydromethylphthalic anhydride 、 Hexahydro-4-methylphthalic anhydride 、 Hexahydro-1-methylphthalic anhydride 、 Hexahydro-3-methylphthalic anhydride	n.d.	N/A	No
Methoxy acetic acid	n.d.	N/A	No
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	n.d.	N/A	No
Diisopentylphthalate	n.d.	N/A	No
N-pentyl-isopentylphthalate	n.d.	N/A	No
1,2-Diethoxyethane	n.d.	N/A	No
N,N-dimethylformamide; dimethyl formamide	n.d.	N/A	No
Dibutyltin dichloride (DBTC)	n.d.	N/A	No
Acetic acid, lead salt, basic	N/A*	N/A	N/A
Trilead bis(carbonate) dihydroxide (basic lead carbonate)	N/A*	N/A	N/A
Lead oxide sulfate	N/A*	N/A	N/A
[Phthalato(2-)] dioxotrilead	N/A*	N/A	N/A
Dioxobis(stearato) trilead	N/A*	N/A	N/A
Fatty acids, C16-18, lead salts	N/A*	N/A	N/A
Lead cyanamidate	N/A*	N/A	N/A
Lead dinitrate	N/A*	N/A	N/A
Lead oxide (lead monoxide)	N/A*	N/A	N/A
Lead tetroxide (orange lead)	N/A*	N/A	N/A
Pentalead tetraoxide sulphate	N/A*	N/A	N/A
Silicic acid, lead salt	N/A*	N/A	N/A
Sulfurous acid, lead salt, dibasic	N/A*	N/A	N/A

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Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
Tetraethyllead	N/A*	N/A	N/A
Tetralead trioxide sulphate	N/A*	N/A	N/A
Lead bis(tetrafluoroborate)	N/A*	N/A	N/A
Lead titanium trioxide	N/A*	N/A	N/A
Lead Titanium Zirconium Oxide	N/A*	N/A	N/A
Pyrochlore, antimony lead yellow	N/A*	N/A	N/A
Trilead dioxide phosphonate	N/A*	N/A	N/A
Silicic acid, barium salt, lead-doped	N/A*	N/A	N/A
Furan	n.d.	N/A	No
Propylene oxide; 1,2-epoxypropane; methyloxirane	n.d.	N/A	No
Diethyl sulphate	n.d.	N/A	No
Dimethyl sulphate	n.d.	N/A	No
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	n.d.	N/A	No
Dinoseb	n.d.	N/A	No
4,4'-methylenedi-o-toluidine	n.d.	N/A	No
4,4'-oxydianiline and its salts	n.d.	N/A	No
4-Aminoazobenzene; 4-Phenylazoaniline	n.d.	N/A	No
4-methyl-m-phenylenediamine (2,4-toluenediamine)	n.d.	N/A	No
6-methoxy-m-toluidine (p-cresidine)	n.d.	N/A	No
Biphenyl-4-ylamine	n.d.	N/A	No
o-aminoazotoluene	n.d.	N/A	No
o-Toluidine; 2-Aminotoluene	n.d.	N/A	No
N-methylacetamide	n.d.	N/A	No
1-bromopropane	n.d.	N/A	No

Note:

- (A) N/A = Non-Available
- (B) N/A* = Refer to Note 16.

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【Appendix C】

Tested Unit No.1 : METAL (Weight: 738.5g)

Substance Name	Concentration (%)	RL (%)	Sample picture
Anthracene	n.d.	0.05	<p>CC/2011/C0134 NO.1</p>
4,4' - Diaminodiphenylmethane	n.d.	0.05	
DBP (Dibutyl phthalate)	n.d.	0.05	
BBP (Benzyl butyl phthalate)	n.d.	0.05	
Bis (2-ethyl(hexyl)phthalate) (DEHP)	n.d.	0.05	
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	0.05	
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)	n.d.	0.05	
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	0.05	
Tributyl Tin (TBT)	n.d.	0.05	
Bis(tributyltin)oxide	n.d.	-	
Cobalt dichloride	n.d.	0.005	
Arsenic (As)	n.d.	0.005	
Diarsenic pentaoxide	n.d.	-	
Diarsenic trioxide	n.d.	-	
Triethyl arsenate	n.d.	-	
Lead (Pb)	1.37	0.005	
Lead hydrogen arsenate	n.d.	-	
Hexavalent Chromium Cr(VI)	n.d.	0.005	
Sodium chromate	n.d.	-	
Ammonium dichromate	n.d.	-	
Potassium dichromate	n.d.	-	
Potassium chromate	n.d.	-	
Sodium dichromate	n.d.	-	
Chromium trioxide	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Chromic acid	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Dichromic acid	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid	n.d.	-	
Strontium chromate	n.d.	-	
Anthracene oil	n.d.	0.05	
Anthracene oil, anthracene paste, distn. Lights	n.d.	0.05	

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Substance Name	Concentration (%)	RL (%)	Sample picture
Anthracene oil, anthracene paste, anthracene fraction	n.d.	0.05	<p>CC/2011/C0134 NO.1</p>
Anthracene oil, anthracene-low	n.d.	0.05	
Anthracene oil, anthracene paste	n.d.	0.05	
Pitch, coal tar, high-temp.	n.d.	0.05	
DIBP (Di-isobutyl phthalate)	n.d.	0.05	
2,4-Dinitrotoluene	n.d.	0.05	
Tris(2-chloroethyl) phosphate (TCEP)	n.d.	0.05	
Lead chromate	n.d.	0.01	
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	0.01	
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	0.01	
Acrylamide	n.d.	0.05	
Boron (B)	n.d.	0.005	
Boric acid	n.d.	-	
Disodium tetraborate, anhydrous	n.d.	-	
Tetraboron disodium heptaoxide, hydrate	n.d.	-	
Trichloroethylene	n.d.	0.05	
Cobalt (Co)	0.013	0.005	
Cobalt(II) sulphate	0.035	-	
Cobalt(II) dinitrate	0.041	-	
Cobalt(II) carbonate	0.027	-	
Cobalt(II) diacetate	0.040	-	
2-Methoxyethanol	n.d.	0.05	
2-Ethoxyethanol	n.d.	0.05	
2-ethoxyethyl acetate	n.d.	0.05	
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	n.d.	0.05	
Hydrazine	n.d.	0.05	
1-methyl-2-pyrrolidone	n.d.	0.05	
1,2,3-trichloropropane	n.d.	0.05	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	n.d.	0.05	
Arsenic acid	n.d.	-	
Calcium arsenate	n.d.	-	
Trilead diarsenate	n.d.	-	
Lead diazide, Lead azide	N/A*	-	
Lead styphnate	N/A*	-	
Lead dipicrate	N/A*	-	
Dichromium tris (chromate)	n.d.	-	
Potassium hydroxyoctaoxodizincatedi-chromate	n.d.	-	

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Substance Name	Concentration (%)	RL (%)	Sample picture
Pentazinc chromate octahydroxide	n.d.	-	<p style="text-align: center;">CC/2011/C0134 NO.1</p>
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	n.d.	0.05	
Bis(2-methoxyethyl) phthalate	n.d.	0.05	
2-Methoxyaniline; o-Anisidine	n.d.	0.05	
4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	n.d.	0.05	
1,2-Dichloroethane	n.d.	0.05	
Bis(2-methoxyethyl) ether	n.d.	0.05	
N,N-dimethylacetamide (DMAC)	n.d.	0.05	
2,2'-dichloro- 4,4'-methylenedianiline (MOCA)	n.d.	0.05	
Phenolphthalein	n.d.	0.05	
Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges】	n.d.	0.05	
Zirconia Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges】	n.d.	0.05	
1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme)	n.d.	0.05	
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	n.d.	0.05	
Formamide	n.d.	0.05	
Lead(II) bis(methanesulfonate)	N/A*	-	
TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6 (1H,3H,5H)-trione)	n.d.	0.05	
β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6- (1H,3H,5H)-trione)	n.d.	0.05	
4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	n.d.	0.05	
N,N,N',N'-tetramethyl- 4,4'-methylenedianiline (Michler's base)	n.d.	0.05	
[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 or Michler's base]	n.d.	0.05	
[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 or Michler's base]	n.d.	0.05	
α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	
Diboron trioxide	n.d.	-	

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BRAINCHILD ELECTRONIC CO., LTD.
NO. 209, CHUNG YANG RD., NAN KANG DIST, TAIPEI, TAIWAN, R.O.C. 11573



Substance Name	Concentration (%)	RL (%)	Sample picture
4,4'-bis (dimethylamino)-4''-(methylamino) trityl alcohol [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	<p style="text-align: center;">CC/2011/C0134 NO.1</p>
Bis(pentabromophenyl) ether (DecaBDE)	n.d.	0.05	
Pentacosafuorotridecanoic acid	n.d.	0.05	
Tricosafuorododecanoic acid	n.d.	0.05	
Henicosafuoroundecanoic acid	n.d.	0.05	
Heptacosafuorotetradecanoic acid	n.d.	0.05	
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	n.d.	0.05	
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	n.d.	0.05	
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	n.d.	0.05	
Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	n.d.	0.05	
Hexahydromethylphthalic anhydride · Hexahydro-4-methylphthalic anhydride · Hexahydro-1-methylphthalic anhydride · Hexahydro-3-methylphthalic anhydride	n.d.	0.05	
Methoxy acetic acid	n.d.	0.05	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	n.d.	0.05	
Diisopentylphthalate	n.d.	0.05	
N-pentyl-isopentylphthalate	n.d.	0.05	
1,2-Diethoxyethane	n.d.	0.05	
N,N-dimethylformamide; dimethyl formamide	n.d.	0.05	
Dibutyltin dichloride (DBTC)	n.d.	0.05	
Acetic acid, lead salt, basic	N/A*	-	
Trilead bis(carbonate) dihydroxide (basic lead carbonate)	N/A*	-	
Lead oxide sulfate	N/A*	-	
[Phthalato(2-)] dioxotrilead	N/A*	-	
Dioxobis(stearato) trilead	N/A*	-	
Fatty acids, C16-18, lead salts	N/A*	-	
Lead cyanamidate	N/A*	-	
Lead dinitrate	N/A*	-	
Lead oxide (lead monoxide)	N/A*	-	

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BRAINCHILD ELECTRONIC CO., LTD.
NO. 209, CHUNG YANG RD., NAN KANG DIST, TAIPEI, TAIWAN, R.O.C. 11573



Substance Name	Concentration (%)	RL (%)	Sample picture
Lead tetroxide (orange lead)	N/A*	-	
Pentalead tetraoxide sulphate	N/A*	-	
Silicic acid, lead salt	N/A*	-	
Sulfurous acid, lead salt, dibasic	N/A*	-	
Tetraethyllead	N/A*	-	
Tetralead trioxide sulphate	N/A*	-	
Lead bis(tetrafluoroborate)	N/A*	-	
Lead titanium trioxide	N/A*	-	
Lead Titanium Zirconium Oxide	N/A*	-	
Pyrochlore, antimony lead yellow	N/A*	-	
Trilead dioxide phosphonate	N/A*	-	
Barium	n.d.	0.005	
Silicic acid, barium salt, lead-doped	N/A*	0.05	
Furan	n.d.	0.05	
Propylene oxide; 1,2-epoxypropane; methyloxirane	n.d.	0.05	
Diethyl sulphate	n.d.	0.05	
Dimethyl sulphate	n.d.	0.05	
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	n.d.	0.05	
Dinoseb	n.d.	0.05	
4,4'-methylenedi-o-toluidine	n.d.	0.05	
4,4'-oxydianiline and its salts	n.d.	0.05	
4-Aminoazobenzene; 4-Phenylazoaniline	n.d.	0.05	
4-methyl-m-phenylenediamine (2,4-toluenediamine)	n.d.	0.05	
6-methoxy-m-toluidine (p-cresidine)	n.d.	0.05	
Biphenyl-4-ylamine	n.d.	0.05	
o-aminoazotoluene	n.d.	0.05	
o-Toluidine; 2-Aminotoluene	n.d.	0.05	
N-methylacetamide	n.d.	0.05	
1-bromopropane	n.d.	0.05	

Tested Unit No.2 : PLASTIC/RUBBER (Weight: 169.5g)

Substance Name	Concentration (%)	RL (%)	Sample picture
Anthracene	n.d.	0.05	
4,4' - Diaminodiphenylmethane	n.d.	0.05	
DBP (Dibutyl phthalate)	n.d.	0.05	
BBP (Benzyl butyl phthalate)	n.d.	0.05	
Bis (2-ethyl(hexyl)phthalate) (DEHP)	n.d.	0.05	
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	0.05	

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BRAINCHILD ELECTRONIC CO., LTD.
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Substance Name	Concentration (%)	RL (%)	Sample picture
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)	n.d.	0.05	
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	0.05	
Tributyl Tin (TBT)	n.d.	0.05	
Bis(tributyltin)oxide	n.d.	-	
Cobalt dichloride	n.d.	0.005	
Arsenic (As)	n.d.	0.005	
Diarsenic pentaoxide	n.d.	-	
Diarsenic trioxide	n.d.	-	
Triethyl arsenate	n.d.	-	
Lead (Pb)	n.d.	0.005	
Lead hydrogen arsenate	n.d.	-	
Hexavalent Chromium Cr(VI)	n.d.	0.005	
Sodium chromate	n.d.	-	
Ammonium dichromate	n.d.	-	
Potassium dichromate	n.d.	-	
Potassium chromate	n.d.	-	
Sodium dichromate	n.d.	-	
Chromium trioxide	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Chromic acid	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Dichromic acid	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid	n.d.	-	
Strontium chromate	n.d.	-	
Anthracene oil	n.d.	0.05	
Anthracene oil, anthracene paste, distn. Lights	n.d.	0.05	
Anthracene oil, anthracene paste, anthracene fraction	n.d.	0.05	
Anthracene oil, anthracene-low	n.d.	0.05	
Anthracene oil, anthracene paste	n.d.	0.05	
Pitch, coal tar, high-temp.	n.d.	0.05	
DIBP (Di-isobutyl phthalate)	n.d.	0.05	
2,4-Dinitrotoluene	n.d.	0.05	
Tris(2-chloroethyl) phosphate (TCEP)	n.d.	0.05	
Lead chromate	n.d.	0.01	
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	0.01	

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BRAINCHILD ELECTRONIC CO., LTD.
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Substance Name	Concentration (%)	RL (%)	Sample picture
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	0.01	
Acrylamide	n.d.	0.05	
Boron (B)	n.d.	0.005	
Boric acid	n.d.	-	
Disodium tetraborate, anhydrous	n.d.	-	
Tetraboron disodium heptaoxide, hydrate	n.d.	-	
Trichloroethylene	n.d.	0.05	
Cobalt (Co)	n.d.	0.005	
Cobalt(II) sulphate	n.d.	-	
Cobalt(II) dinitrate	n.d.	-	
Cobalt(II) carbonate	n.d.	-	
Cobalt(II) diacetate	n.d.	-	
2-Methoxyethanol	n.d.	0.05	
2-Ethoxyethanol	n.d.	0.05	
2-ethoxyethyl acetate	n.d.	0.05	
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	n.d.	0.05	
Hydrazine	n.d.	0.05	
1-methyl-2-pyrrolidone	n.d.	0.05	
1,2,3-trichloropropane	n.d.	0.05	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	n.d.	0.05	
Arsenic acid	n.d.	-	
Calcium arsenate	n.d.	-	
Trilead diarsenate	n.d.	-	
Lead diazide, Lead azide	N/A*	-	
Lead styphnate	N/A*	-	
Lead dipicrate	N/A*	-	
Dichromium tris (chromate)	n.d.	-	
Potassium hydroxyoctaoxodizincatedi-chromate	n.d.	-	
Pentazinc chromate octahydroxide	n.d.	-	
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	n.d.	0.05	
Bis(2-methoxyethyl) phthalate	n.d.	0.05	
2-Methoxyaniline; o-Anisidine	n.d.	0.05	
4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	n.d.	0.05	
1,2-Dichloroethane	n.d.	0.05	
Bis(2-methoxyethyl) ether	n.d.	0.05	

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BRAINCHILD ELECTRONIC CO., LTD.
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Substance Name	Concentration (%)	RL (%)	Sample picture
N,N-dimethylacetamide (DMAC)	n.d.	0.05	<p>CC/2011/C0134 NO.2</p>
2,2'-dichloro- 4,4'-methylenedianiline (MOCA)	n.d.	0.05	
Phenolphthalein	n.d.	0.05	
Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges】	n.d.	0.05	
Zirconia Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges】	n.d.	0.05	
1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme)	n.d.	0.05	
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	n.d.	0.05	
Formamide	n.d.	0.05	
Lead(II) bis(methanesulfonate)	N/A*	-	
TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6 (1H,3H,5H)-trione)	n.d.	0.05	
β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6- (1H,3H,5H)-trione)	n.d.	0.05	
4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	n.d.	0.05	
N,N,N',N'-tetramethyl- 4,4'-methylenedianiline (Michler's base)	n.d.	0.05	
[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 or Michler's base]	n.d.	0.05	
[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 or Michler's base]	n.d.	0.05	
α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	
Diboron trioxide	n.d.	-	
4,4'-bis (dimethylamino)-4''-(methylamino) trityl alcohol [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	
Bis(pentabromophenyl) ether (DecaBDE)	n.d.	0.05	
Pentacosafuorotridecanoic acid	n.d.	0.05	
Tricosafuorododecanoic acid	n.d.	0.05	
Henicosafuoroundecanoic acid	n.d.	0.05	
Heptacosafuorotetradecanoic acid	n.d.	0.05	

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BRAINCHILD ELECTRONIC CO., LTD.
NO. 209, CHUNG YANG RD., NAN KANG DIST, TAIPEI, TAIWAN, R.O.C. 11573



Substance Name	Concentration (%)	RL (%)	Sample picture
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	n.d.	0.05	<p>CC/2011/C0134 NO.2</p>
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	n.d.	0.05	
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	n.d.	0.05	
Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	n.d.	0.05	
Hexahydromethylphthalic anhydride · Hexahydro-4-methylphthalic anhydride · Hexahydro-1-methylphthalic anhydride · Hexahydro-3-methylphthalic anhydride	n.d.	0.05	
Methoxy acetic acid	n.d.	0.05	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	n.d.	0.05	
Diisopentylphthalate	n.d.	0.05	
N-pentyl-isopentylphthalate	n.d.	0.05	
1,2-Diethoxyethane	n.d.	0.05	
N,N-dimethylformamide; dimethyl formamide	n.d.	0.05	
Dibutyltin dichloride (DBTC)	n.d.	0.05	
Acetic acid, lead salt, basic	N/A*	-	
Trilead bis(carbonate) dihydroxide (basic lead carbonate)	N/A*	-	
Lead oxide sulfate	N/A*	-	
[Phthalato(2-)] dioxotrilead	N/A*	-	
Dioxobis(stearato) trilead	N/A*	-	
Fatty acids, C16-18, lead salts	N/A*	-	
Lead cyanamidate	N/A*	-	
Lead dinitrate	N/A*	-	
Lead oxide (lead monoxide)	N/A*	-	
Lead tetroxide (orange lead)	N/A*	-	
Pentalead tetraoxide sulphate	N/A*	-	
Silicic acid, lead salt	N/A*	-	
Sulfurous acid, lead salt, dibasic	N/A*	-	
Tetraethyllead	N/A*	-	
Tetralead trioxide sulphate	N/A*	-	

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Substance Name	Concentration (%)	RL (%)	Sample picture
Lead bis(tetrafluoroborate)	N/A*	-	<p>CC/2011/C0134 NO.2</p>
Lead titanium trioxide	N/A*	-	
Lead Titanium Zirconium Oxide	N/A*	-	
Pyrochlore, antimony lead yellow	N/A*	-	
Trilead dioxide phosphonate	N/A*	-	
Barium	n.d.	0.005	
Silicic acid, barium salt, lead-doped	N/A*	0.05	
Furan	n.d.	0.05	
Propylene oxide; 1,2-epoxypropane; methyloxirane	n.d.	0.05	
Diethyl sulphate	n.d.	0.05	
Dimethyl sulphate	n.d.	0.05	
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	n.d.	0.05	
Dinoseb	n.d.	0.05	
4,4'-methylenedi-o-toluidine	n.d.	0.05	
4,4'-oxydianiline and its salts	n.d.	0.05	
4-Aminoazobenzene; 4-Phenylazoaniline	n.d.	0.05	
4-methyl-m-phenylenediamine (2,4-toluenediamine)	n.d.	0.05	
6-methoxy-m-toluidine (p-cresidine)	n.d.	0.05	
Biphenyl-4-ylamine	n.d.	0.05	
o-aminoazotoluene	n.d.	0.05	
o-Toluidine; 2-Aminotoluene	n.d.	0.05	
N-methylacetamide	n.d.	0.05	
1-bromopropane	n.d.	0.05	

Tested Unit No.3 : PCBA (Weight: 257.8g)

Substance Name	Concentration (%)	RL (%)	Sample picture
Anthracene	n.d.	0.05	<p>CC/2011/C0134 NO.3</p>
4,4' - Diaminodiphenylmethane	n.d.	0.05	
DBP (Dibutyl phthalate)	n.d.	0.05	
BBP (Benzyl butyl phthalate)	n.d.	0.05	
Bis (2-ethyl(hexyl)phthalate) (DEHP)	n.d.	0.05	
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	0.05	
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)	n.d.	0.05	
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	0.05	
Tributyl Tin (TBT)	n.d.	0.05	
Bis(tributyltin)oxide	n.d.	-	

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BRAINCHILD ELECTRONIC CO., LTD.
NO. 209, CHUNG YANG RD., NAN KANG DIST, TAIPEI, TAIWAN, R.O.C. 11573



Substance Name	Concentration (%)	RL (%)	Sample picture
Cobalt dichloride	n.d.	0.005	<p>CC/2011/C0134 NO.3</p>
Arsenic (As)	n.d.	0.005	
Diarsenic pentaoxide	n.d.	-	
Diarsenic trioxide	n.d.	-	
Triethyl arsenate	n.d.	-	
Lead (Pb)	0.506	0.005	
Lead hydrogen arsenate	n.d.	-	
Hexavalent Chromium Cr(VI)	n.d.	0.005	
Sodium chromate	n.d.	-	
Ammonium dichromate	n.d.	-	
Potassium dichromate	n.d.	-	
Potassium chromate	n.d.	-	
Sodium dichromate	n.d.	-	
Chromium trioxide	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Chromic acid	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Dichromic acid	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid	n.d.	-	
Strontium chromate	n.d.	-	
Anthracene oil	n.d.	0.05	
Anthracene oil, anthracene paste, distn. Lights	n.d.	0.05	
Anthracene oil, anthracene paste, anthracene fraction	n.d.	0.05	
Anthracene oil, anthracene-low	n.d.	0.05	
Anthracene oil, anthracene paste	n.d.	0.05	
Pitch, coal tar, high-temp.	n.d.	0.05	
DIBP (Di-isobutyl phthalate)	n.d.	0.05	
2,4-Dinitrotoluene	n.d.	0.05	
Tris(2-chloroethyl) phosphate (TCEP)	n.d.	0.05	
Lead chromate	n.d.	0.01	
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	0.01	
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	0.01	
Acrylamide	n.d.	0.05	
Boron (B)	0.006	0.005	
Boric acid	0.032	-	
Disodium tetraborate, anhydrous	0.026	-	
Tetraboron disodium heptaoxide, hydrate	-	-	

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Substance Name	Concentration (%)	RL (%)	Sample picture
Trichloroethylene	n.d.	0.05	
Cobalt (Co)	n.d.	0.005	
Cobalt(II) sulphate	n.d.	-	
Cobalt(II) dinitrate	n.d.	-	
Cobalt(II) carbonate	n.d.	-	
Cobalt(II) diacetate	n.d.	-	
2-Methoxyethanol	n.d.	0.05	
2-Ethoxyethanol	n.d.	0.05	
2-ethoxyethyl acetate	n.d.	0.05	
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	n.d.	0.05	
Hydrazine	n.d.	0.05	
1-methyl-2-pyrrolidone	n.d.	0.05	
1,2,3-trichloropropane	n.d.	0.05	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	n.d.	0.05	
Arsenic acid	n.d.	-	
Calcium arsenate	n.d.	-	
Trilead diarsenate	n.d.	-	
Lead diazide, Lead azide	N/A*	-	
Lead styphnate	N/A*	-	
Lead dipicrate	N/A*	-	
Dichromium tris (chromate)	n.d.	-	
Potassium hydroxyoctaoxodizincatedi-chromate	n.d.	-	
Pentazinc chromate octahydroxide	n.d.	-	
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	n.d.	0.05	
Bis(2-methoxyethyl) phthalate	n.d.	0.05	
2-Methoxyaniline; o-Anisidine	n.d.	0.05	
4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	n.d.	0.05	
1,2-Dichloroethane	n.d.	0.05	
Bis(2-methoxyethyl) ether	n.d.	0.05	
N,N-dimethylacetamide (DMAC)	n.d.	0.05	
2,2'-dichloro- 4,4'-methylenedianiline (MOCA)	n.d.	0.05	
Phenolphthalein	n.d.	0.05	
Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges】	n.d.	0.05	

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Substance Name	Concentration (%)	RL (%)	Sample picture
Zirconia Aluminosilicate, Refractory Ceramic Fibres [oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges]	n.d.	0.05	<p>CC/2011/C0134 NO.3</p>
1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme)	n.d.	0.05	
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	n.d.	0.05	
Formamide	n.d.	0.05	
Lead(II) bis(methanesulfonate)	N/A*	-	
TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6 (1H,3H,5H)-trione)	n.d.	0.05	
β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6- (1H,3H,5H)-trione)	n.d.	0.05	
4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	n.d.	0.05	
N,N,N',N'-tetramethyl- 4,4'-methylenedianiline (Michler's base)	n.d.	0.05	
[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 or Michler's base]	n.d.	0.05	
[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 or Michler's base]	n.d.	0.05	
α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	
Diboron trioxide	0.018	-	
4,4'-bis (dimethylamino)-4''-(methylamino) trityl alcohol [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	
Bis(pentabromophenyl) ether (DecaBDE)	n.d.	0.05	
Pentacosaflluorotridecanoic acid	n.d.	0.05	
Tricosaflluorododecanoic acid	n.d.	0.05	
Henicosaflluoroundecanoic acid	n.d.	0.05	
Heptacosaflluorotetradecanoic acid	n.d.	0.05	
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	n.d.	0.05	
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	n.d.	0.05	

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BRAINCHILD ELECTRONIC CO., LTD.
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Substance Name	Concentration (%)	RL (%)	Sample picture
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	n.d.	0.05	
Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	n.d.	0.05	
Hexahydromethylphthalic anhydride · Hexahydro-4-methylphthalic anhydride · Hexahydro-1-methylphthalic anhydride · Hexahydro-3-methylphthalic anhydride	n.d.	0.05	
Methoxy acetic acid	n.d.	0.05	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	n.d.	0.05	
Diisopentylphthalate	n.d.	0.05	
N-pentyl-isopentylphthalate	n.d.	0.05	
1,2-Diethoxyethane	n.d.	0.05	
N,N-dimethylformamide; dimethyl formamide	n.d.	0.05	
Dibutyltin dichloride (DBTC)	n.d.	0.05	
Acetic acid, lead salt, basic	N/A*	-	
Trilead bis(carbonate) dihydroxide (basic lead carbonate)	N/A*	-	
Lead oxide sulfate	N/A*	-	
[Phthalato(2-)] dioxotrilead	N/A*	-	
Dioxobis(stearato) trilead	N/A*	-	
Fatty acids, C16-18, lead salts	N/A*	-	
Lead cyanamidate	N/A*	-	
Lead dinitrate	N/A*	-	
Lead oxide (lead monoxide)	N/A*	-	
Lead tetroxide (orange lead)	N/A*	-	
Pentalead tetraoxide sulphate	N/A*	-	
Silicic acid, lead salt	N/A*	-	
Sulfurous acid, lead salt, dibasic	N/A*	-	
Tetraethyllead	N/A*	-	
Tetralead trioxide sulphate	N/A*	-	
Lead bis(tetrafluoroborate)	N/A*	-	
Lead titanium trioxide	N/A*	-	
Lead Titanium Zirconium Oxide	N/A*	-	
Pyrochlore, antimony lead yellow	N/A*	-	
Trilead dioxide phosphonate	N/A*	-	
Barium	0.363	0.005	
Silicic acid, barium salt, lead-doped	N/A*	0.05	
Furan	n.d.	0.05	

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Substance Name	Concentration (%)	RL (%)	Sample picture
Propylene oxide; 1,2-epoxypropane; methyloxirane	n.d.	0.05	<p>CC/2011/C0134 NO.3</p>
Diethyl sulphate	n.d.	0.05	
Dimethyl sulphate	n.d.	0.05	
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	n.d.	0.05	
Dinoseb	n.d.	0.05	
4,4'-methylenedi-o-toluidine	n.d.	0.05	
4,4'-oxydianiline and its salts	n.d.	0.05	
4-Aminoazobenzene; 4-Phenylazoaniline	n.d.	0.05	
4-methyl-m-phenylenediamine (2,4-toluenediamine)	n.d.	0.05	
6-methoxy-m-toluidine (p-cresidine)	n.d.	0.05	
Biphenyl-4-ylamine	n.d.	0.05	
o-aminoazotoluene	n.d.	0.05	
o-Toluidine; 2-Aminotoluene	n.d.	0.05	
N-methylacetamide	n.d.	0.05	
1-bromopropane	n.d.	0.05	

Tested Unit No.4 : GLASS/CERAMIC (Weight: 94.3g)

Substance Name	Concentration (%)	RL (%)	Sample picture
Anthracene	n.d.	0.05	<p>CC/2011/C0134 NO.4</p>
4,4' - Diaminodiphenylmethane	n.d.	0.05	
DBP (Dibutyl phthalate)	n.d.	0.05	
BBP (Benzyl butyl phthalate)	n.d.	0.05	
Bis (2-ethyl(hexyl)phthalate) (DEHP)	n.d.	0.05	
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	0.05	
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)	n.d.	0.05	
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	0.05	
Tributyl Tin (TBT)	n.d.	0.05	
Bis(tributyltin)oxide	n.d.	-	
Cobalt dichloride	n.d.	0.005	
Arsenic (As)	n.d.	0.005	
Diarsenic pentaoxide	n.d.	-	
Diarsenic trioxide	n.d.	-	
Triethyl arsenate	n.d.	-	
Lead (Pb)	n.d.	0.005	
Lead hydrogen arsenate	n.d.	-	
Hexavalent Chromium Cr(VI)	n.d.	0.005	


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Substance Name	Concentration (%)	RL (%)	Sample picture
Sodium chromate	n.d.	-	<p>CC/2011/C0134 NO.4</p> 
Ammonium dichromate	n.d.	-	
Potassium dichromate	n.d.	-	
Potassium chromate	n.d.	-	
Sodium dichromate	n.d.	-	
Chromium trioxide	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Chromic acid	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Dichromic acid	n.d.	-	
Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid	n.d.	-	
Strontium chromate	n.d.	-	
Anthracene oil	n.d.	0.05	
Anthracene oil, anthracene paste, distn. Lights	n.d.	0.05	
Anthracene oil, anthracene paste, anthracene fraction	n.d.	0.05	
Anthracene oil, anthracene-low	n.d.	0.05	
Anthracene oil, anthracene paste	n.d.	0.05	
Pitch, coal tar, high-temp.	n.d.	0.05	
DIBP (Di-isobutyl phthalate)	n.d.	0.05	
2,4-Dinitrotoluene	n.d.	0.05	
Tris(2-chloroethyl) phosphate (TCEP)	n.d.	0.05	
Lead chromate	n.d.	0.01	
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	0.01	
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	0.01	
Acrylamide	n.d.	0.05	
Boron (B)	n.d.	0.005	
Boric acid	n.d.	-	
Disodium tetraborate, anhydrous	n.d.	-	
Tetraboron disodium heptaoxide, hydrate	n.d.	-	
Trichloroethylene	n.d.	0.05	
Cobalt (Co)	n.d.	0.005	
Cobalt(II) sulphate	n.d.	-	
Cobalt(II) dinitrate	n.d.	-	
Cobalt(II) carbonate	n.d.	-	
Cobalt(II) diacetate	n.d.	-	
2-Methoxyethanol	n.d.	0.05	
2-Ethoxyethanol	n.d.	0.05	

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Substance Name	Concentration (%)	RL (%)	Sample picture
2-ethoxyethyl acetate	n.d.	0.05	<p>CC/2011/C0134 NO.4</p>
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	n.d.	0.05	
Hydrazine	n.d.	0.05	
1-methyl-2-pyrrolidone	n.d.	0.05	
1,2,3-trichloropropane	n.d.	0.05	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	n.d.	0.05	
Arsenic acid	n.d.	-	
Calcium arsenate	n.d.	-	
Trilead diarsenate	n.d.	-	
Lead diazide, Lead azide	N/A*	-	
Lead styphnate	N/A*	-	
Lead dipicrate	N/A*	-	
Dichromium tris (chromate)	n.d.	-	
Potassium hydroxyoctaoxodizincatedi-chromate	n.d.	-	
Pentazinc chromate octahydroxide	n.d.	-	
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	n.d.	0.05	
Bis(2-methoxyethyl) phthalate	n.d.	0.05	
2-Methoxyaniline; o-Anisidine	n.d.	0.05	
4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	n.d.	0.05	
1,2-Dichloroethane	n.d.	0.05	
Bis(2-methoxyethyl) ether	n.d.	0.05	
N,N-dimethylacetamide (DMAC)	n.d.	0.05	
2,2'-dichloro- 4,4'-methylenedianiline (MOCA)	n.d.	0.05	
Phenolphthalein	n.d.	0.05	
Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges】	n.d.	0.05	
Zirconia Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges】	n.d.	0.05	
1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme)	n.d.	0.05	
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	n.d.	0.05	
Formamide	n.d.	0.05	
Lead(II) bis(methanesulfonate)	N/A*	-	

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BRAINCHILD ELECTRONIC CO., LTD.
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Substance Name	Concentration (%)	RL (%)	Sample picture
TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6 (1H,3H,5H)-trione)	n.d.	0.05	<p style="text-align: center;">CC/2011/C0134 NO.4</p>
β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6- (1H,3H,5H)-trione)	n.d.	0.05	
4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	n.d.	0.05	
N,N,N',N'-tetramethyl- 4,4'-methylenedianiline (Michler's base)	n.d.	0.05	
[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 or Michler's base]	n.d.	0.05	
[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 or Michler's base]	n.d.	0.05	
α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	
Diboron trioxide	n.d.	-	
4,4'-bis (dimethylamino)-4''-(methylamino) trityl alcohol [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	
Bis(pentabromophenyl) ether (DecaBDE)	n.d.	0.05	
Pentacosafuorotridecanoic acid	n.d.	0.05	
Tricosafuorododecanoic acid	n.d.	0.05	
Henicosafuoroundecanoic acid	n.d.	0.05	
Heptacosafuorotetradecanoic acid	n.d.	0.05	
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	n.d.	0.05	
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	n.d.	0.05	
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	n.d.	0.05	
Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	n.d.	0.05	
Hexahydromethylphthalic anhydride 、 Hexahydro-4-methylphthalic anhydride 、 Hexahydro-1-methylphthalic anhydride 、 Hexahydro-3-methylphthalic anhydride	n.d.	0.05	

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BRAINCHILD ELECTRONIC CO., LTD.

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Substance Name	Concentration (%)	RL (%)	Sample picture
Methoxy acetic acid	n.d.	0.05	<p>CC/2011/C0134 NO.4</p>
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	n.d.	0.05	
Diisopentylphthalate	n.d.	0.05	
N-pentyl-isopentylphthalate	n.d.	0.05	
1,2-Diethoxyethane	n.d.	0.05	
N,N-dimethylformamide; dimethyl formamide	n.d.	0.05	
Dibutyltin dichloride (DBTC)	n.d.	0.05	
Acetic acid, lead salt, basic	N/A*	-	
Trilead bis(carbonate) dihydroxide (basic lead carbonate)	N/A*	-	
Lead oxide sulfate	N/A*	-	
[Phthalato(2-)] dioxotrilead	N/A*	-	
Dioxobis(stearato) trilead	N/A*	-	
Fatty acids, C16-18, lead salts	N/A*	-	
Lead cyanamidate	N/A*	-	
Lead dinitrate	N/A*	-	
Lead oxide (lead monoxide)	N/A*	-	
Lead tetroxide (orange lead)	N/A*	-	
Pentalead tetraoxide sulphate	N/A*	-	
Silicic acid, lead salt	N/A*	-	
Sulfurous acid, lead salt, dibasic	N/A*	-	
Tetraethyllead	N/A*	-	
Tetralead trioxide sulphate	N/A*	-	
Lead bis(tetrafluoroborate)	N/A*	-	
Lead titanium trioxide	N/A*	-	
Lead Titanium Zirconium Oxide	N/A*	-	
Pyrochlore, antimony lead yellow	N/A*	-	
Trilead dioxide phosphonate	N/A*	-	
Barium	n.d.	0.005	
Silicic acid, barium salt, lead-doped	N/A*	0.05	
Furan	n.d.	0.05	
Propylene oxide; 1,2-epoxypropane; methyloxirane	n.d.	0.05	
Diethyl sulphate	n.d.	0.05	
Dimethyl sulphate	n.d.	0.05	
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	n.d.	0.05	
Dinoseb	n.d.	0.05	
4,4'-methylenedi-o-toluidine	n.d.	0.05	
4,4'-oxydianiline and its salts	n.d.	0.05	

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Substance Name	Concentration (%)	RL (%)	Sample picture
4-Aminoazobenzene; 4-Phenylazoaniline	n.d.	0.05	<p>CC/2011/C0134 NO.4</p>
4-methyl-m-phenylenediamine (2,4-toluenediamine)	n.d.	0.05	
6-methoxy-m-toluidine (p-cresidine)	n.d.	0.05	
Biphenyl-4-ylamine	n.d.	0.05	
o-aminoazotoluene	n.d.	0.05	
o-Toluidine; 2-Aminotoluene	n.d.	0.05	
N-methylacetamide	n.d.	0.05	
1-bromopropane	n.d.	0.05	

Note:

A. The average concentration of a whole article can be calculated per the following formula.

$$C_{Average\ of\ Article} = \frac{\sum_{i=1}^n (C_i * W_i)}{\sum_{i=1}^n (W_i)}$$

C_i : Concentration of a SVHC item in each tested unit

W_i : Weight of each tested unit

$C_{Average\ of\ Article}$: Average concentration of a whole article

** End of Report **

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