# TEST REPORT

**Report No.: ATC210326-08571E** Date: April 22, 2021 

**SYSTECH ELECTRONICS LTD**
**UNIT 802,8/F,SUNBEAM CENTRE,27 SHING YIP STREET,KWUN TONG,HONG KONG**

Report on the submitted samples said to be:

| | |
|---|---|
| Sample Description: | SCANNER MOUSE |
| Style/Item No.: | SSM001 |
| Country of Origin: | CHINA |
| Country of Destination: | EUROPE |
| Brand: | IRIScan |
| Manufacturer: | K-MARK INDUSTRIAL (SHENZHEN)LTD. |
| Supplier: | SYSTECH ELECTRONICS LTD. |
| Buyer: | IRIS |
| Sample Receiving Date: | March 29,2021 |
| Testing Period: | March 29,2021 - April 13,2021 |
| Result: | **Please refer to next page(s).** |



Signed for and on behalf of

BACL

Checked by: _____ Approved by: _____

Candy Lin Lance Lee

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Summary of Test Result:

| TEST REQUEST | CONCLUSION |
|---|---|
| A. Two hundred and eleven (211) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 and its amendment directives concerning the REACH | See Remark |

Remark: According to the specified scope and analytical technique, concentrations of all 211 SVHC are <0.1% in the submitted sample(s).

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**Result:**

Tested part(s):

The tested parts of submitted sample are as following:

Scanner mouse

| Item | No. | (No.)Test Part(s) |
|---|---|---|
| (1)#Soft plastic mixed | 1 | White soft plastic (sleeve, scroll wheel) |
| | 2 | White soft plastic (wire jacket, cable, PCB) |
| | 3 | Black soft plastic (wire jacket, cable, PCB) |
| | 4 | Red soft plastic (wire jacket, cable, PCB) |
| | 5 | Light soft plastic (wire jacket, cable, PCB) |
| | 6 | Black PVC (wire jacket, connection cable) |
| | 7 | Blue PVC (wire jacket, connection cable) |
| | 8 | Yellow PVC (wire jacket, connection cable) |
| | 9 | Orange PVC (wire jacket, connection cable) |
| | 10 | Green PVC (wire jacket, connection cable) |
| | 11 | Red PVC (wire jacket, connection cable) |
| | 12 | Black soft plastic (sleeve, magnet, connection cable) |
| | 13 | White PVC (holder, USB interface, power line) |
| | 14 | White soft plastic (wire jacket, power line) |
| | 15 | Black soft plastic (wire jacket, power line) |
| | 16 | Red soft plastic (wire jacket, power line) |
| | 17 | Green soft plastic (wire jacket, power line) |
| | 18 | White PVC (cable jacket, power line) |
| | 19 | Black soft plastic (sleeve, wire jacket, power line) |
| | 20 | Black soft plastic (sleeve, magnet, power line) |
| (2)#Hard plastic mixed | 1 | Black printed white plastic (top, cover) |
| | 2 | Green plastic (middle, cover) |
| | 3 | White plastic (bottom, cover) |
| | 4 | White plastic (button, cover) |
| | 5 | Black plastic with adhesive (button, cover) |
| | 6 | Black plastic (reflector cover) |
| | 7 | Transparent plastic (scroll wheel) |

| Item | No. | (No.)Test Part(s) |
|---|---|---|
| (2)#Hard plastic mixed | 8 | White plastic (plug, connection cable) |
| | 9 | White plastic (insulation, USB interface, power line) |
| | 10 | Translucent plastic (wire holder, power line) |
| | 11 | White plastic (plug, power line) |
| (3)#Metal mixed | 1 | Silvery metal (screw) |
| | 2 | Coppery metal (wire, cable, PCB) |
| | 3 | Silvery metal (wire, connection cable) |
| | 4 | Silvery metal (plate, connection cable) |
| | 5 | Golden plated silvery metal (pin, USB interface, power line) |
| | 6 | Silvery metal (cover, USB interface, power line) |
| | 7 | Silvery metal (plate, plug, power line) |
| | 8 | Silvery metal (wire, power line) |
| | 9 | Silvery / blue aluminum foil (sleeve, wire jacket, power line) |
| | 10 | Silvery metal (mesh sleeve, wire jacket, power line) |
| (4)#Glass & ceram mixed | 1 | Transparent glass (receiving lens, bottom, cover) |
| | 2 | Silvery glass (reflector) |
| | 3 | Black magnet (connection cable) |
| | 4 | Black magnet (power line) |
| (5)#PCB mixed | 1 | PCB + EC (regulating switch PCB) |
| | 2 | PCB + EC (light source PCB) |
| | 3 | PCB + EC (signal conversion PCB) |
| | 4 | PCB + EC (main PCB) |
| (6)Textile | 1 | White fiber (lining, power line) |

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**A. Two hundred and eleven (211) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 and its amendment directives concerning the REACH**

Test method: With reference to in- house method, Analysis is performed by ICP-AES, UV-VIS, IC, GC-MS, Headspace GC-MS, LC-MS/MS, HPLC-TS-MS.

**Test Result(substances in the Candidate List of SVHC):**

(1) The tested specimen was prepared as 6 kinds of admixture based on the similar materials principle, the content of SVHC in every admixture as following:

| No. | Item | CAS No. | EC No. | Unit | MDL | Result | | | Category |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (1)# | (2)# | (3)# | |
| / | All tested 211 SVHC in the Candidate | / | / | mg/kg | 50 | N.D. | N.D. | N.D. | / |

| No. | Item | CAS No. | EC No. | Unit | MDL | Result | | | Category |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (4)# | (5)# | (6) | |
| / | All tested 211 SVHC in the Candidate | / | / | mg/kg | 50 | N.D. | N.D. | N.D. | / |

(2) According to the weight proportion, calculated the content of SVHC in each articles as following:

| No. | Item | CAS No. | EC No. | Unit | MDL | Result | Category |
|---|---|---|---|---|---|---|---|
| / | All tested 211 SVHC in the Candidate | / | / | mg/kg | 50 | N.D. | / |

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Note:

- Please refer to Appendix I for the full list of tested SVHC.
- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit
- 0.1%=1000mg/kg.
- * = Calculated concentration of Cobalt Dichloride(CoCl2) is based on the identified heavy metal and anion result. Calculated concentration of Diarsenic Pentaoxide(As2O5), Diarsenic Trioxide(As2O3), Sodium Dichromate, Dihydrate, Lead Hydrogen Arsenate and Triethyl Arsenate, Disodium tetraborate, anhydrous , Tetraboron disodium heptaoxide, hydrate, Sodium chromate , Potassium chromate, Ammonium dichromate,
Potassium dichromate, Cobalt(II) sulfate, Cobalt(II) dinitrate, Cobalt(II) carbonate,Cobalt(II) diacetate, Chromium trioxide, Chromic acid,,Dichromic acid, Oligomers of chromicacid and dichromic acid, strontium chromate, Calcium arsenate, Potassium hydroxyoctaoxodizincatedi-chromate, Lead dipicrate, Arsenic acid , Trilead diarsenate, Lead diazide, Lead azide, Lead styphnate, Dichromium tris(chromate), Diboron trioxide, Lead(II) bis(methanesulfonate), Acetic acid, lead salt, basic, Basic lead carbonate (trilead bis(carbonate)dihydroxide), Lead oxide sulfate (basic lead sulfate), [Phthalato(2-)]dioxotrilead (dibasic lead phthalate), Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Lead bis(tetrafluoroborate), Lead cynamidate, Lead dinitrate, Lead oxide (lead monoxide), Lead tetroxide (orange lead), Lead titanium trioxide, Lead Titanium Zirconium Oxide, Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow C.I., Silicic acid (H2Si2O5), barium salt (1:1), lead-doped, [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008], Silicic acid, lead salt, Sulfurous acid, lead salt, dibasic, Tetraethyllead, Tetralead trioxide sulphate, Trilead dioxide phosphonate, Cadmium oxide, Cadmium sulphide, Lead di(acetate), Sodium peroxometaborate, Cadmium chloride , Sodium perborate; perboric acid, sodium salt, Cadmium fluoride, Cadmium sulphate, Cadmium nitrate, Cadmium hydroxide, Cadmium carbonate are based on the identified heavy metal result. Identity of above metal substances present in the article has to be further confirmed.
- ** = Calculated concentration of bis(tributyltin)oxide TBTO is based on the identified tributyltin, TBT Result. The result is a screening test of TBTO and can cover TBTO and other salts under current technologies. Further investigation is required if the exact amount of TBTO has to be determined.
- *** = Calculated concentration of these coal-tar products is based on the identified polycyclic aromatic hydrocarbons ( PAHs ) and. heterocyclic compounds.
- **** = Calculated concentration of these Aluminosilicate and Zirconia Aluminosilicate is based on the identified aluminum and zirconium Result by ICP-AES.
- ***** = The substance does only fulfil the criteria of REACH Art. 57 (a) if it contains Michler's ketone (EC Number: 202-027-5) or Michler's base (EC Number: 202-959-2) in a concentration ≥ 0.1% (weight / weight).
- Carcinogenic, Mutagenic or toxic to Reproduction (CMR), meeting the criteria for classification in category 1 or 2 in accordance with Directive 67/548/EEC, Persistent, Bioaccumulative and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) according to the criteria in Annex of XIII of the REACH Regulation, and/or Identified, on a case-by-case basis, from scientific evidence as causing probable serious effects to human health or the environment of an equivalent level of concern as those above (e.g. endocrine disrupters).
- The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the list published by ECHA:
https://echa.europa.eu/candidate-list-table
This list is under evaluation by ECHA and may subject to change in the future.
- 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.
- # = Composite testing.
- Photo appendix II is included.

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## Appendix I

**Full list of tested SVHC:**

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 1 | Anthracene(ANT) | 120-12-7 | 204-371-1 | mg/kg | 50 | PBT |
| 2 | 4,4' -diaminodiphenymethane (9#) | 101-77-9 | 202-974-4 | mg/kg | 50 | CMR |
| 3 | Dibutyl Phthalate(DBP) | 84-74-2 | 201-557-4 | mg/kg | 50 | CMR |
| 4 | Cobalt Dichloride(CoCl2)* | 7646-79-9 | 231-589-4 | mg/kg | 50 | CMR |
| 5 | Diarsenic Pentaoxide(As2O5)* | 1303-28-2 | 215-116-9 | mg/kg | 50 | CMR |
| 6 | Diarsenic Trioxide(As2O3)* | 1327-53-3 | 215-481-4 | mg/kg | 50 | CMR |
| 7 | Sodium Dichromate, Dihydrate* | 7789-12-0; 10588-01-9 | 234-190-3 | mg/kg | 50 | CMR |
| 8 | 5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene) | 81-15-2 | 201-329-4 | mg/kg | 50 | vPvB |
| 9 | Bis-(2-ethylhexyl) Phthalate (DEHP) | 117-81-7 | 204-211-0 | mg/kg | 50 | Equivalent level of concern having probable serious effects to the environment (Article 57 f);Toxic for reproduction (article 57c) |
| 10 | Hexabromocyclododecane (HBCDD) | 25637-99-4 & 3194-55-6 (134237-51-7,134237-50-6,134237-52-8) | 247-148-4;221-695-9 | mg/kg | 50 | PBT |
| 11 | Alkanes, C10-13, chloro(Short Chain Chlorinated Paraffins) (SCCP) | 85535-84-8 | 287-476-5 | mg/kg | 50 | PBT |
| 12 | Bis(tributyltin)oxide(TBTO)** | 56-35-9 | 200-268-0 | mg/kg | 50 | PBT |
| 13 | Lead Hydrogen Arsenate* | 7784-40-9 | 232-064-2 | mg/kg | 50 | CMR |
| 14 | Benzyl Butyl Phthalate(BBP) | 85-68-7 | 201-622-7 | mg/kg | 50 | CMR |
| 15 | Triethyl Arsenate* | 15606-95-8 | 427-700-2 | mg/kg | 50 | CMR |
| 16 | Anthracene oil*** | 90640-80-5 | 292-602-7 | mg/kg | 50 | PBT |
| 17 | Anthracene oil, anthracene paste, distn. lights*** | 91995-17-4 | 295-278-5 | mg/kg | 50 | PBT |
| 18 | Anthracene oil, anthracene paste, anthracene fraction*** | 91995-15-2 | 295-275-9 | mg/kg | 50 | PBT |
| 19 | Anthracene oil,Anthracene-low*** | 90640-82-7 | 292-604-8 | mg/kg | 50 | PBT |
| 20 | Anthracene oil, anthracene paste*** | 90640-81-6 | 292-603-2 | mg/kg | 50 | PBT |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 21 | Diisobutyl phthalate(DIBP) | 84-69-5 | 201-553-2 | mg/kg | 50 | CMR |
| 22 | 2,4-Dinitrotoluene | 121-14-2 | 204-450-0 | mg/kg | 50 | CMR |
| 23 | coal tar pitch, high temperature*** | 65996-93-2 | 266-028-2 | mg/kg | 50 | PBT |
| 24 | tris(2-chloroethyl)phosphate | 115-96-8 | 204-118-5 | mg/kg | 50 | CMR |
| 25 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) | 1344-37-2 | 215-693-7 | mg/kg | 50 | CMR |
| 26 | Lead chromate molybdate sulfate red (C.I. Pigment Red 104) | 12656-85-8 | 235-759-9 | mg/kg | 50 | CMR |
| 27 | Lead chromate: chrome yellow | 7758-97-6 | 231-846-0 | mg/kg | 50 | CMR |
| 28 | Acrylamide | 79-06-1 | 201-173-7 | mg/kg | 50 | CMR |
| 29 | Trichloroethylene | 79-01-6 | 201-167-4 | mg/kg | 50 | CMR |
| 30 | Boric acid | 10043-35-3; 11113-50-1 | 233-139-2; 234-343-4 | mg/kg | 50 | CMR |
| 31 | Disodium tetraborate, anhydrous* | 1330-43-4;12179-04-3;1303-96-4 | 215-540-4 | mg/kg | 50 | CMR |
| 32 | Tetraboron disodium heptaoxide, hydrate* | 12267-73-1 | 235-541-3 | mg/kg | 50 | CMR |
| 33 | Sodium chromate* | 7775-11-3 | 231-889-5 | mg/kg | 50 | CMR |
| 34 | Potassium chromate* | 7789-00-6 | 232-140-5 | mg/kg | 50 | CMR |
| 35 | Ammonium dichromate* | 7789-09-5 | 232-143-1 | mg/kg | 50 | CMR |
| 36 | Potassium dichromate* | 7778-50-9 | 231-906-6 | mg/kg | 50 | CMR |
| 37 | Cobalt(II) sulfate* | 10124-43-3 | 233-334-2 | mg/kg | 50 | CMR |
| 38 | Cobalt(II) dinitrate* | 10141-05-6 | 233-402-1 | mg/kg | 50 | CMR |
| 39 | Cobalt(II) carbonate* | 513-79-1 | 208-169-4 | mg/kg | 50 | CMR |
| 40 | Cobalt(II) diacetate* | 71-48-7 | 200-755-8 | mg/kg | 50 | CMR |
| 41 | 2-Methoxyethanol | 109-86-4 | 203-713-7 | mg/kg | 50 | CMR |
| 42 | 2-Ethoxyethanol | 110-80-5 | 203-804-1 | mg/kg | 50 | CMR |
| 43 | Chromium trioxide* | 1333-82-0 | 215-607-8 | mg/kg | 50 | CMR |
| 44 | Chromic acid, Dichromic acid, Oligomers of chromicacid and dichromic acid* | 7738-94-5; 13530-68-2 | 231-801-5;236-881-5 | mg/kg | 50 | CMR |
| 45 | 2-Ethoxyethylacetate | 111-15-9 | 203-839-2 | mg/kg | 50 | CMR |
| 46 | strontium chromate* | 7789-06-2 | 232-142-6 | mg/kg | 50 | CRM |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP) | 68515-42-4 | 271-084-6 | mg/kg | 50 | CMR |
| 48 | Hydrazine | 7803-57-8; 302-01-2 | 206-114-9 | mg/kg | 50 | CMR |
| 49 | 1-methyl-2-pyrrolidone(NMP) | 872-50-4 | 212-828-1 | mg/kg | 50 | CMR |
| 50 | 1,2,3-Trichloropropane | 96-18-4 | 202-486-1 | mg/kg | 50 | CMR |
| 51 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP(rich C7)) | 71888-89-6 | 276-158-1 | mg/kg | 50 | CMR |
| 52 | Zirconia Aluminosilicate Refractory Ceramic Fibres**** | --- | --- | mg/kg | 50 | CMR |
| 53 | Calcium arsenate* | 7778-44-1 | 231-904-5 | mg/kg | 50 | CMR |
| 54 | Bis(2-methoxy ethyl)ether | 111-96-6 | 203-924-4 | mg/kg | 50 | CMR |
| 55 | Aluminosilicate Refractory Ceramic Fibres(RCF)**** | --- | --- | mg/kg | 50 | CMR |
| 56 | Potassium hydroxyoctaoxodizincatedichromate* | 11103-86-9 | 234-329-8 | mg/kg | 50 | CMR |
| 57 | Lead dipicrate | 6477-64-1 | 229-335-2 | mg/kg | 50 | CMR |
| 58 | N,N-Dimethylacetamide | 127-19-5 | 204-826-4 | mg/kg | 50 | CMR |
| 59 | Arsenic acid | 7778-39-4 | 231-901-9 | mg/kg | 50 | CMR |
| 60 | 2-Methoxyaniline; o-Anisidine (21#) | 90-04-0 | 201-963-1 | mg/kg | 50 | CMR |
| 61 | Trilead diarsenate* | 3687-31-8 | 222-979-5 | mg/kg | 50 | CMR |
| 62 | 1,2-Dichloroethane | 107-06-2 | 203-458-1 | mg/kg | 50 | CMR |
| 63 | Pentazinc chromate octahydroxide | 49663-84-5 | 256-418-0 | mg/kg | 50 | CMR |
| 64 | 4-(1,1,3,3-tetramethylbutyl) phenol | 140-66-9 | 205-426-2 | mg/kg | 50 | Equivalent level of concern having probable serious effects to the environment |
| 65 | Formaldehyde, oligomeric reaction products with aniline | 25214-70-4 | 500-036-1 | mg/kg | 50 | CMR |
| 66 | Bis(2-methoxyethyl) Phthalate (DMEP) | 117-82-8 | 204-212-6 | mg/kg | 50 | CMR |
| 67 | Lead diazide, Lead azide* | 13424-46-9 | 236-542-1 | mg/kg | 50 | CMR |
| 68 | Lead styphnate* | 15245-44-0 | 239-290-0 | mg/kg | 50 | CMR |
| 69 | 2,2'-dichloro-4,4'-methylenedianiline | 101-14-4 | 202-918-9 | mg/kg | 50 | CMR |
| 70 | Phenolphthalein | 77-09-8 | 201-004-7 | mg/kg | 50 | CMR |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 71 | Dichromium tris(chromate)* | 24613-89-6 | 246-356-2 | mg/kg | 50 | CMR |
| 72 | 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme) | 112-49-2 | 203-977-3 | mg/kg | 50 | CMR |
| 73 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether(EGDME) | 110-71-4 | 203-794-9 | mg/kg | 50 | CMR |
| 74 | Diboron trioxide* | 1303-86-2 | 215-125-8 | mg/kg | 50 | CMR |
| 75 | Formamide(FMA) | 75-12-7 | 200-842-0 | mg/kg | 50 | CMR |
| 76 | Lead(II) bis(methanesulfonate)* | 17570-76-2 | 401-750-5 | mg/kg | 50 | CMR |
| 77 | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) | 2451-62-9 | 219-514-3 | mg/kg | 50 | CMR |
| 78 | β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine -2,4,6-(1H,3H,5H)-trione) | 59653-74-6 | 423-400-0 | mg/kg | 50 | CMR |
| 79 | 4,4'-Bis(dimethylamino) benzophenone(Michler's ketone) | 90-94-8 | 202-027-5 | mg/kg | 50 | CMR |
| 80 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 101-61-1 | 202-959-2 | mg/kg | 50 | CMR |
| 81 | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5 - dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)***** | 548-62-9 | 208-953-6 | mg/kg | 50 | CMR |
| 82 | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)***** | 2580-56-5 | 219-943-6 | mg/kg | 50 | CMR |
| 83 | α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1 -methanol(C.I. Solvent Blue 4)***** | 6786-83-0 | 229-851-8 | mg/kg | 50 | CMR |
| 84 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol***** | 561-41-1 | 209-218-2 | mg/kg | 50 | CMR |
| 85 | Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE) | 1163-19-5 | 214-604-9 | mg/kg | 50 | PBT |
| 86 | Pentacosafluorotridecanoic acid(EGDME) | 72629-94-8 | 276-745-2 | mg/kg | 50 | vPvB |
| 87 | Tricosafluorododecanoic acid | 307-55-1 | 206-203-2 | mg/kg | 50 | vPvB |
| 88 | Henicosafluoroundecanoic acid | 2058-94-8 | 218-165-4 | mg/kg | 50 | vPvB |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 89 | Heptacosafluorotetradecanoic acid | 376-06-7 | 206-803-4 | mg/kg | 50 | vPvB |
| 90 | 4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues | --- | --- | mg/kg | 50 | Equivalent level of concern having probable serious effects to the environment |
| 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 | --- | --- | mg/kg | 50 | Equivalent level of concern having probable serious effects to the environment |
| 92 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 123-77-3 | 204-650-8 | mg/kg | 50 | Equivalent level of concern having probable serious effects to the environment |
| 93 | Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry | 85-42-7; 13149-00-3; 14166-21-3 | 201-604-9;236-086-3;238-009-9 | mg/kg | 50 | Equivalent level of concern having probable serious effects to the environment |
| 94 | Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride | 25550-51-0; 19438-60-9; 48122-14-1; 57110-29-9 | 247-094-1;243-072-0;256-356-4;260-566-1 | mg/kg | 50 | Equivalent level of concern having probable serious effects to the environment |
| 95 | Methoxyacetic acid | 625-45-6 | 210-894-6 | mg/kg | 50 | CMR |
| 96 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear(DPIP) | 84777-06-0 | 284-032-2 | mg/kg | 50 | CMR |
| 97 | Diisopentylphthalate (DIPP) | 605-50-5 | 210-088-4 | mg/kg | 50 | CMR |
| 98 | N-pentyl-iso-pentyl Phthalate (PIPP) | 776297-69-9 | --- | mg/kg | 50 | CMR |
| 99 | 1,2-Diethoxyethane | 629-14-1 | 211-076-1 | mg/kg | 50 | CMR |
| 100 | N,N-dimethylformamide(DMF) | 68-12-2 | 200-679-5 | mg/kg | 50 | CMR |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 101 | Dibutyltin dichloride (DBTC) | 683-18-1 | 211-670-0 | mg/kg | 50 | CMR |
| 102 | Acetic acid, lead salt, basic* | 51404-69-4 | 257-175-3 | mg/kg | 50 | CMR |
| 103 | Basic lead carbonate (trilead bis(carbonate)dihydroxide)* | 1319-46-6 | 215-290-6 | mg/kg | 50 | CMR |
| 104 | Lead oxide sulfate (basic lead sulfate)* | 12036-76-9 | 234-853-7 | mg/kg | 50 | CMR |
| 105 | [Phthalato(2-)]dioxotrilead (dibasic lead phthalate)* | 69011-06-9 | 273-688-5 | mg/kg | 50 | CMR |
| 106 | Dioxobis(stearato)trilead* | 12578-12-0 | 235-702-8 | mg/kg | 50 | CMR |
| 107 | Fatty acids, C16-18, lead salts* | 91031-62-8 | 292-966-7 | mg/kg | 50 | CMR |
| 108 | Lead bis(tetrafluoroborate)* | 13814-96-5 | 237-486-0 | mg/kg | 50 | CMR |
| 109 | Lead cynamidate* | 20837-86-9 | 244-073-9 | mg/kg | 50 | CMR |
| 110 | Lead dinitrate* | 10099-74-8 | 233-245-9 | mg/kg | 50 | CMR |
| 111 | Lead oxide (lead monoxide)* | 1317-36-8 | 215-267-0 | mg/kg | 50 | CMR |
| 112 | Lead tetroxide (orange lead)* | 1314-41-6 | 215-235-6 | mg/kg | 50 | CMR |
| 113 | Lead titanium trioxide* | 12060-00-3 | 235-038-9 | mg/kg | 50 | CMR |
| 114 | Lead Titanium Zirconium Oxide* | 12626-81-2 | 235-727-4 | mg/kg | 50 | CMR |
| 115 | Pentalead tetraoxide sulphate* | 12065-90-6 | 235-067-7 | mg/kg | 50 | CMR |
| 116 | Pyrochlore, antimony lead yellow C.I.* | 8012-00-8 | 232-382-1 | mg/kg | 50 | CMR |
| 117 | Silicic acid (H2Si2O5), barium salt (1:1), lead-doped, [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] * | 68784-75-8 | 272-271-5 | mg/kg | 50 | CMR |
| 118 | Silicic acid, lead salt* | 11120-22-2 | 234-363-3 | mg/kg | 50 | CMR |
| 119 | Sulfurous acid, lead salt, dibasic* | 62229-08-7 | 263-467-1 | mg/kg | 50 | CMR |
| 120 | Tetraethyllead* | 78-00-2 | 201-075-4 | mg/kg | 50 | CMR |
| 121 | Tetralead trioxide sulphate* | 12202-17-4 | 235-380-9 | mg/kg | 50 | CMR |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 122 | Trilead dioxide phosphonate* | 12141-20-7 | 235-252-2 | mg/kg | 50 | CMR |
| 123 | Furan | 110-00-9 | 203-727-3 | mg/kg | 50 | CMR |
| 124 | Propylene oxide; 1,2-epoxypropane; methyloxirane | 75-56-9 | 200-879-2 | mg/kg | 50 | CMR |
| 125 | Diethyl sulfate | 64-67-5 | 200-589-6 | mg/kg | 50 | CMR |
| 126 | Dimethyl sulfate | 77-78-1 | 201-058-1 | mg/kg | 50 | CMR |
| 127 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | 421-150-7 | mg/kg | 50 | CMR |
| 128 | Dinoseb | 88-85-7 | 201-861-7 | mg/kg | 50 | CMR |
| 129 | 4,4'-methylenedi-o-toluidine | 838-88-0 | 212-658-8 | mg/kg | 50 | CMR |
| 130 | 4,4'-oxydianiline and its salts | 101-80-4 | 202-977-0 | mg/kg | 50 | CMR |
| 131 | 4-Aminoazobenzene; 4-Phenylazoaniline | 60-09-3 | 200-453-6 | mg/kg | 50 | CMR |
| 132 | 4-methyl-m-phenylenediamine (2,4-toluene-diamine) | 95-80-7 | 202-453-1 | mg/kg | 50 | CMR |
| 133 | 6-methoxy-m-toluidine (p-cresidine) | 120-71-8 | 204-419-1 | mg/kg | 50 | CMR |
| 134 | Biphenyl-4-ylamine | 92-67-1 | 202-177-1 | mg/kg | 50 | CMR |
| 135 | o-aminoazotoluene | 97-56-3 | 202-591-2 | mg/kg | 50 | CMR |
| 136 | o -Toluidine | 95-53-4 | 202-429-0 | mg/kg | 50 | CMR |
| 137 | N-Methylacetamide | 79-16-3 | 201-182-6 | mg/kg | 50 | CMR |
| 138 | 1-bromopropane; n-propyl bromide | 106-94-5 | 203-445-0 | mg/kg | 50 | CMR |
| 139 | Cadmium(Cd) | 7440-43-9 | 231-152-8 | mg/kg | 50 | CMR |
| 140 | Cadmium oxide* | 1306-19-0 | 215-146-2 | mg/kg | 50 | CMR |
| 141 | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | 223-320-4 | mg/kg | 50 | PBT |
| 142 | Pentadecafluorooctanoic acid (PFOA) | 335-67-1 | 206-397-9 | mg/kg | 50 | PBT |
| 143 | Dipentyl phthalate(DPP) | 131-18-0 | 205-017-9 | mg/kg | 50 | PBT |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 144 | 4-Nonylphenol, branched and linear,ethoxylated [substances with alinear and/or branched alkyl chain witha carbon number of 9 covalentlybound in position 4 to phenol,ethoxylated covering UVCB- and well-defined substances, polymers andhomologues, which include any of theindividual isomers and/orcombinations thereof] | --- | --- | mg/kg | 50 | Equivalent level of concern having probable serious effects to the environment |
| 145 | Cadmium sulphide* | 1306-23-6 | 215-147-8 | mg/kg | 50 | Equivalent level of concern having probable serious effects to the environment |
| 146 | Disodium3,3'-[[1,1'-biphenyl]-4,4'- diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 1937-37-7 | 217-710-3 | mg/kg | 50 | CMR |
| 147 | Dihexyl phthalate | 84-75-3 | 201-559-5 | mg/kg | 50 | PBT |
| 148 | Imidazolidine-2-thione(2-imidazoline-2-thiol) | 96-45-7 | 202-506-9 | mg/kg | 50 | PBT |
| 149 | Trixylyl phosphate(TXP) | 25155-23-1 | 246-677-8 | mg/kg | 50 | PBT |
| 150 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 573-58-0 | 209-358-4 | mg/kg | 50 | CMR |
| 151 | Lead di(acetate)* | 301-04-2 | 206-104-4 | mg/kg | 50 | PBT |
| 152 | Sodium peroxometaborate* | 7632-04-4 | 231-556-4 | mg/kg | 50 | Toxic for reproduction |
| 153 | Cadmium chloride* | 10108-64-2 | 233-296-7 | mg/kg | 50 | CMR<br>Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 154 | 1,2-Benzenedicarboxylic Acid, dihexyl ester, branched and linear(DIHP) | 68515-50-4 | 271-093-5 | mg/kg | 50 | Toxic for reproduction |
| 155 | Sodium perborate; perboric acid, sodium salt* | --- | 239-172-9;234-390-0 | mg/kg | 50 | Toxic for reproduction |
| 156 | Cadmium fluoride* | 7790-79-6 | 232-222-0 | mg/kg | 50 | CMR, Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 157 | Cadmium sulphate* | 10124-36-4; 31119-53-6 | 233-331-6 | mg/kg | 50 | CMR, Equivalent level of concern having probable serious effects to human health (Article 57 f) |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 158 | 2-benzotriazol-2-yl-4, 6-di-tert -butylphenol (UV-320) | 3846-71-7 | 223-346-6 | mg/kg | 50 | PBT (Article 57 d); vPvB (Article 57 e) |
| 159 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol ( UV-328 ) | 25973-55-1 | 247-384-8 | mg/kg | 50 | PBT (Article 57 d);vPvB (Article 57 e) |
| 160 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(DOTE) | 15571-58-1 | 239-622-4 | mg/kg | 50 | Toxic for reproduction (Article 57 c) |
| 161 | reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4- [[2-[(2-ethylhexyl)oxy]-2-oxoethyl] thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | --- | --- | mg/kg | 50 | Toxic for reproduction (Article 57 c) |
| 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(EC No. 201-559-5) | 68515-51-5; 68648-93-1 | 271-094-0;272-013-1 | mg/kg | 50 | Toxic for reproduction (Article 57 c) |
| 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] | --- | --- | mg/kg | 50 | vPvB(Article 57e) |
| 164 | Nitrobenzene | 98-95-3 | 202-716-0 | mg/kg | 50 | Toxic for reproduction (Article 57 c) |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 3864-99-1 | 223-383-8 | mg/kg | 50 | vPvB (Article 57 e) |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert -butyl)-6-(sec-butyl)phenol(UV -350) | 36437-37-3 | 253-037-1 | mg/kg | 50 | vPvB (Article 57 e) |
| 167 | 1,3-Propane sultone | 1120-71-4 | 214-317-9 | mg/kg | 50 | Carcinogenic(Article 57 a) |
| 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts | 375-95-1; 21049-39-8; 4149-60-4 | 206-801-3 | mg/kg | 50 | Toxic for reproduction (Article 57 c) PBT (Article 57 d) |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 169 | Benzo[def]chrysene (Benzo[a] pyrene) | 50-32-8 | 200-028-5 | mg/kg | 50 | Carcinogenic (Article 57 a) Mutagenic (Article 57 b) Toxic for reproduction (Article 57 c) PBT (Article 57 d) vPvB (Article 57 e) |
| 170 | p-(1,1-dimethylpropyl)phenol (PTAP) | 80-46-6 | 201-280-9 | mg/kg | 50 | Equivalent level of concern having probable serious effects to environment (Article 57 f) |
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts | 335-76-2; 3830-45-3; 3108-42-7 | 206-400-3;-221-470-5; | mg/kg | 50 | Toxic for reproduction (Article 57c) PBT (Article 57d) |
| 172 | 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] | --- | --- | mg/kg | 50 | Endocrine disrupting properties (Article 57(f) - environment) |
| 173 | 4,4′ -isopropylidenediphenol (bisphenol A; BPA) | 80-05-7 | 201-245-8 | mg/kg | 50 | Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57 (f) - human health) |
| 174 | Perfluorohexane-1-sulphonic acid and its salts(PFHxS) | --- | --- | mg/kg | 50 | vPvB (Article 57e) |
| 175 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) | --- | --- | mg/kg | 50 | Endocrine disrupting properties (Article 57(f) – environment) |
| 176 | Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ( “Dechlorane Plus” ™) [covering any of its individual isomers or any combination thereof] | --- | --- | mg/kg | 50 | vPvB (Article 57 e) |
| 177 | Chrysene(CHR) | 218-01-9, 1719-03-5 | 205-923-4 | mg/kg | 50 | Carcinogenic (Article 57 a) PBT (Article 57 d) vPvB (Article 57 e) |
| 178 | Cadmium nitrate* | 10022-68-1; 10325-94-7 | 233-710-6 | mg/kg | 50 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health) |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 179 | Cadmium hydroxide* | 21041-95-2 | 244-168-5 | mg/kg | 50 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health) |
| 180 | Cadmium carbonate* | 513-78-0 | 208-168-9 | mg/kg | 50 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health) |
| 181 | Benz[a]anthracene | 56-55-3; 1718-53-2 | 200-280-6 | mg/kg | 50 | Carcinogenic (Article 57 a) PBT (Article 57 d) vPvB (Article 57 e) |
| 182 | Terphenyl, hydrogenated | 61788-32-7 | 262-967-7 | mg/kg | 50 | vPvB (Article 57 e) |
| 183 | Octamethylcyclotetrasiloxane (D4) | 556-67-2 | 209-136-7 | mg/kg | 50 | PBT (Article 57 d) vPvB (Article 57 e) |
| 184 | Lead(Pb) | 7439-92-1 | 231-100-4 | mg/kg | 50 | Toxic for reproduction (Article 57 c) |
| 185 | Ethylenediamine(EDA) | 107-15-3 | 203-468-6 | mg/kg | 50 | Respiratory sensitising properties (Article 57 (f)-human health) |
| 186 | Dodecamethylcyclohexasiloxane(D6) | 540-97-6 | 208-762-8 | mg/kg | 50 | PBT (Article 57 d);vPvB (Article 57 e) |
| 187 | Disodium octaborate | 12008-41-2 | 234-541-0 | mg/kg | 50 | Toxic for reproduction (Article 57c) |
| 188 | Dicyclohexyl Phthalate(DCHP) | 84-61-7 | 201-545-9 | mg/kg | 50 | Toxic for reproduction (Article 57 c) Endocrine disrupting properties (Article 57(f)-human health) |
| 189 | Decamethylcyclopentasiloxane (D5) | 541-02-6 | 208-764-9 | mg/kg | 50 | PBT (Article 57 d) vPvB (Article 57 e) |
| 190 | Benzo[g,h,i]perylene (BPE) | 191-24-2 | 205-883-8 | mg/kg | 50 | PBT (Article 57 d) vPvB (Article 57 e) |
| 191 | Benzene-1,2,4-tricarboxylic acid 1,2-anhydride(trimellitic anhydride; TMA) | 552-30-7 | 209-008-0 | mg/kg | 50 | Respiratory sensitising properties (Article 57 (f)-human health) |
| 192 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane | 6807-17-6 | 401-720-1 | mg/kg | 50 | Toxic for reproduction (Article 57 c) |
| 193 | Benzo[k]fluoranthene (BkFA) | 207-08-9 | 205-916-6 | mg/kg | 50 | Carcinogenic(Article 57 a)PBT (Article 57 d)vPvB(Article 57 e) |
| 194 | Fluoranthene (FLT) | 206-44-0 | 205-912-4 | mg/kg | 50 | PBT (Article 57 d) vPvB (Article 57 e) |
| 195 | Phenanthrene (PHE) | 85-01-8 | 201-581-5 | mg/kg | 50 | vPvB (Article 57 e) |
| 196 | Pyrene (PYR) | 129-00-0 | 204-927-3 | mg/kg | 50 | PBT (Article 57 d) vPvB (Article 57 e) |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 197 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo [2.2.1]heptan-2-one | 15087-24-8 | 239-139-9 | mg/kg | 50 | Endocrine disrupting properties (Article 57 (f)-environment) |
| 198 | 2-Methoxyethyl Acetate(2-Methoxyethyl Acetate) | 110-49-6 | 203-772-9 | mg/kg | 50 | Toxic for reproduction (Article 57 (c)) |
| 199 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) | --- | --- | mg/kg | 50 | Endocrine disrupting properties (Article 57(f) – environment) |
| 200 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) | --- | --- | mg/kg | 50 | Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health) |
| 201 | 4-tert-Butylphenol | 98-54-4 | 202-679-0 | mg/kg | 50 | Endocrine disrupting properties (Article 57(f) – environment) |
| 202 | Diisohexyl phthalate(DIHxP) | 71850-09-4 | 276-090-2 | mg/kg | 50 | Toxic for reproduction (Article 57c) |
| 203 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | 119313-12-1 | 404-360-3 | mg/kg | 50 | Toxic for reproduction (Article 57c) |
| 204 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5 | 400-600-6 | mg/kg | 50 | Toxic for reproduction (Article 57c) |
| 205 | Perfluorobutane sulfonic acid (PFBS) and its salts(PFBS) | -- | -- | mg/kg | 50 | Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health) |
| 206 | 1-Vinylimidazole | 1072-63-5 | 214-012-0 | mg/kg | 50 | Toxic for reproduction (Article 57 (c)) |
| 207 | 2-Methylimidazole | 693-98-1 | 211-765-7 | mg/kg | 50 | Toxic for reproduction (Article 57 (c)) |
| 208 | Dibutylbis(pentane-2,4-dionato-O,O')tin | 22673-19-4 | 245-152-0 | mg/kg | 50 | Toxic for reproduction (Article 57 (c)) |
| 209 | Butyl 4-hydroxybenzoate (Butylparaben) | 94-26-8 | 202-318-7 | mg/kg | 50 | Endocrine disrupting properties - human health (Article 57(f) – human health) |
| 210 | Bis(2-(2-methoxyethoxy)ethyl) ether | 143-24-8 | 205-594-7 | mg/kg | 50 | Toxic for reproduction (Article 57 (c)) |

| No. | Item | CAS No. | EC No. | Unit | MDL | Category |
|---|---|---|---|---|---|---|
| 211 | Dioctyltin dilaurate,stannane,dioctyl-,bis (cocoacyloxy)derivs.,and any other stannane,dioctyl-,bis (fatty acyloxy)derivs.wherein C12 is the predominant carbon number of the fatty cayloxy moiety | -- | -- | mg/kg | 50 | Toxic for reproduction (Article 57 (c)) |

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## Appendix II

Photograph of Sample


BACL authenticate the photo on original report only

Statement:

1.This report cannot be reproduced except in full, without prior written approval of the Company.
2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
6.The test samples were in good condition before testing.

*** End of Report ***