

**Test Report  
(SVHC)**

No. CANEC1805885001

Date: 23 Apr 2018

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ZHUHAI TELEHOF ELECTRICS CO., LTD

3RD FLOOR, PHASE 1, NO. 6 JINHUA ROAD, XIAOLIN, HONGQI TOWN, JINWAN DISTRICT, ZHUHAI CITY, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Surge Protective Devices

SGS Job No. : CP18-016418 - SZ  
 Model No. : BS RJ45G 48 (A)  
 Client Ref. Info. : PLEASE SEE REMARK  
 Date of Sample Received : 04 Apr 2018  
 Testing Period : 04 Apr 2018 - 12 Apr 2018  
 Test Requested : As requested by client, SVHC screening is performed according to:  
 (i) One hundred and eighty one (181) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2018 regarding Regulation (EC) No 1907/2006 concerning the REACH.  
 Test Results : Please refer to next page(s).

Summary :

|  |  |
|--|--|
| <p>According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are &gt; 0.1% (w/w) in the articles of the submitted sample. See 002.</p> | <p><b>WARNING</b><br/>(See remark)</p> |
|--|--|

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

*Jenny Jiang*

Jenny Jiang  
 Approved Signatory



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### Remark :

(1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:  
<http://echa.europa.eu/web/guest/candidate-list-table>  
 These lists are under evaluation by ECHA and may subject to change in the future.

(2) Concerning article(s):

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List 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 in the Candidate List.

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

(3) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:



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- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or
- a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:
  - (a) a substance posing human health or environmental hazards in an individual concentration of  $\geq 1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq 0.2\%$  by volume for gaseous mixtures; or
  - (b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
  - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1\%$  by weight for non-gaseous mixtures; or
  - (d) a substance for which there are Europe-wide workplace exposure limits.

(5) 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 Sample :

#### Sample Description :

| Specimen No. | SGS Sample ID    | Description    |
|--------------|------------------|----------------|
| SN1          | CAN18-058850.002 | Nonmetal group |
| SN2          | CAN18-058850.003 | Metal group    |

### Test Method :

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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## Test Result: (Substances in the Candidate List of SVHC)

| Batch | Substance Name  | CAS No.    | 002<br>Concentration (%) | RL (%) |
|-------|---|------------|--------------------------|--------|
| VIII  | [Phthalato(2-)]dioxotrilead*                              | 69011-06-9 | 2.676                    | 0.010  |
| VIII  | Dioxobis(stearato)trilead*                                | 12578-12-0 | 3.995                    | 0.010  |
| VIII  | Fatty acids, C16-18, lead salts*                          | 91031-62-8 | 7.591                    | 0.010  |
| VIII  | Lead cyanamidate*   | 20837-86-9 | 2.447                    | 0.010  |
| VIII  | Lead dinitrate*   | 10099-74-8 | 3.252                    | 0.010  |
| VIII  | Lead monoxide*  | 1317-36-8  | 2.192                    | 0.010  |
| VIII  | Lead oxide sulfate*                                       | 12036-76-9 | 2.585                    | 0.010  |
| VIII  | Lead tetroxide (orange lead)*                             | 1314-41-6  | 2.244                    | 0.010  |
| VIII  | Lead titanium trioxide*                                   | 12060-00-3 | 2.976                    | 0.010  |
| VIII  | Lead titanium zirconium oxide*                            | 12626-81-2 | 3.402                    | 0.010  |
| VIII  | Pentalead tetraoxide sulphate*                            | 12065-90-6 | 2.349                    | 0.010  |
| VIII  | Pyrochlore, antimony lead yellow*                         | 8012-00-8  | 3.781                    | 0.010  |
| VIII  | Sulfurous acid, lead salt, dibasic*                       | 62229-08-7 | 2.595                    | 0.010  |
| VIII  | Tetralead trioxide sulphate*                              | 12202-17-4 | 2.388                    | 0.010  |
| VIII  | Trilead bis(carbonate)dihydroxide (basic lead carbonate)* | 1319-46-6  | 2.540                    | 0.010  |
| VIII  | Trilead dioxide phosphonate*                              | 12141-20-7 | 2.401                    | 0.010  |
| X     | Lead di(acetate)*   | 301-04-2   | 3.194                    | 0.010  |
| -     | Other tested SVHC in candidate list                       | -          | ND                       | -      |

## Test Result: (Substances in the Candidate List of SVHC)

| Batch | Substance Name                      | CAS No.   | 003<br>Concentration (%) | RL (%) |
|-------|-------------------------------------|-----------|--------------------------|--------|
| I     | Diarsenic pentaoxide*               | 1303-28-2 | 0.041                    | 0.010  |
| -     | Other tested SVHC in candidate list | -         | ND                       | -      |



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Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
2. RL = Reporting Limit. All RL are based on homogenous material. ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
3. \* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- \*\* The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website : [www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm](http://www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm)
4. RL = 0.01% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.001%, boron RL=0.005% (only for Lead bis(tetrafluoroborate)), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide).
5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
6. Δ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.
7. ☆ CAS No. of 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; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
9. Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.
10. In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on components / material enough to test.



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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.                  | RL (%) |
|-------|-----|---|--------------------------|--------|
| I     | 1   | 4,4' -Diaminodiphenylmethane(MDA)   | 101-77-9                 | 0.100  |
| I     | 2   | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)  | 81-15-2                  | 0.100  |
| I     | 3   | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)   | 85535-84-8               | 0.100  |
| I     | 4   | Anthracene  | 120-12-7                 | 0.100  |
| I     | 5   | Benzyl butyl phthalate (BBP)  | 85-68-7                  | 0.100  |
| I     | 6   | Bis (2-ethylhexyl)phthalate (DEHP)  | 117-81-7                 | 0.100  |
| I     | 7   | Bis(tributyltin)oxide (TBTO)  | 56-35-9                  | 0.100  |
| I     | 8   | Cobalt dichloride*  | 7646-79-9                | 0.010  |
| I     | 9   | Diarsenic pentaoxide*   | 1303-28-2                | 0.010  |
| I     | 10  | Diarsenic trioxide*   | 1327-53-3                | 0.010  |
| I     | 11  | Dibutyl phthalate (DBP)   | 84-74-2                  | 0.100  |
| I     | 12  | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) <sup>Δ</sup> | 25637-99-4,3194-55-6     | 0.100  |
| I     | 13  | Lead hydrogen arsenate*   | 7784-40-9                | 0.010  |
| I     | 14  | Sodium dichromate*  | 7789-12-0,<br>10588-01-9 | 0.010  |
| I     | 15  | Triethyl arsenate*  | 15606-95-8               | 0.010  |
| II    | 16  | 2,4-Dinitrotoluene  | 121-14-2                 | 0.100  |
| II    | 17  | Acrylamide  | 79-06-1                  | 0.100  |
| II    | 18  | Anthracene oil**  | 90640-80-5               | 0.100  |
| II    | 19  | Anthracene oil, anthracene paste**  | 90640-81-6               | 0.100  |
| II    | 20  | Anthracene oil, anthracene paste, anthracene fraction**   | 91995-15-2               | 0.100  |



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### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.                                | RL (%) |
|-------|-----|---|--|--------|
| II    | 21  | Anthracene oil, anthracene paste, distn. lights**                                 | 91995-17-4                             | 0.100  |
| II    | 22  | Anthracene oil, anthracene-low**  | 90640-82-7                             | 0.100  |
| II    | 23  | Diisobutyl phthalate  | 84-69-5                                | 0.100  |
| II    | 24  | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*                      | 12656-85-8                             | 0.010  |
| II    | 25  | Lead chromate*  | 7758-97-6                              | 0.010  |
| II    | 26  | Lead sulfochromate yellow (C.I. Pigment Yellow 34)*                               | 1344-37-2                              | 0.010  |
| II    | 27  | Pitch, coal tar, high temp.**   | 65996-93-2                             | 0.100  |
| II    | 28  | Tris(2-chloroethyl)phosphate  | 115-96-8                               | 0.100  |
| III   | 29  | Ammonium dichromate*  | 7789-09-5                              | 0.010  |
| III   | 30  | Boric acid*   | 10043-35-3,<br>11113-50-1              | 0.010  |
| III   | 31  | Disodium tetraborate, anhydrous*  | 1303-96-4,<br>1330-43-4,<br>12179-04-3 | 0.010  |
| III   | 32  | Potassium chromate*   | 7789-00-6                              | 0.010  |
| III   | 33  | Potassium dichromate*   | 7778-50-9                              | 0.010  |
| III   | 34  | Sodium chromate*  | 7775-11-3                              | 0.010  |
| III   | 35  | Tetraboron disodium heptaoxide, hydrate*  | 12267-73-1                             | 0.010  |
| III   | 36  | Trichloroethylene   | 79-01-6                                | 0.100  |
| IV    | 37  | 2-Ethoxyethanol   | 110-80-5                               | 0.100  |
| IV    | 38  | 2-Methoxyethanol  | 109-86-4                               | 0.100  |
| IV    | 39  | Chromic acid,<br>Oligomers of chromic acid and dichromic acid,<br>Dichromic acid* | 7738-94-5,-<br>13530-68-2              | 0.010  |



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### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.                  | RL (%) |
|-------|-----|---|--------------------------|--------|
| IV    | 40  | Chromium trioxide*  | 1333-82-0                | 0.010  |
| IV    | 41  | Cobalt(II) carbonate*   | 513-79-1                 | 0.010  |
| IV    | 42  | Cobalt(II) diacetate*   | 71-48-7                  | 0.010  |
| IV    | 43  | Cobalt(II) dinitrate*   | 10141-05-6               | 0.010  |
| IV    | 44  | Cobalt(II) sulphate*  | 10124-43-3               | 0.010  |
| V     | 45  | 1,2,3-trichloropropane  | 96-18-4                  | 0.100  |
| V     | 46  | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich    | 71888-89-6               | 0.100  |
| V     | 47  | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters | 68515-42-4               | 0.100  |
| V     | 48  | 1-methyl-2-pyrrolidone  | 872-50-4                 | 0.100  |
| V     | 49  | 2-ethoxyethyl acetate   | 111-15-9                 | 0.100  |
| V     | 50  | Hydrazine   | 7803-57-8,<br>302-01-2   | 0.100  |
| V     | 51  | Strontium chromate*   | 7789-06-2                | 0.010  |
| VI    | 52  | 1,2-Dichloroethane  | 107-06-2                 | 0.100  |
| VI    | 53  | 2,2'-dichloro-4,4'-methylenedianiline                                   | 101-14-4                 | 0.100  |
| VI    | 54  | 2-Methoxyaniline; o-Anisidine   | 90-04-0                  | 0.100  |
| VI    | 55  | 4-(1,1,3,3-tetramethylbutyl)phenol                                      | 140-66-9                 | 0.100  |
| VI    | 56  | Aluminosilicate Refractory Ceramic Fibres *                             | 650-017-00-8 (Index no.) | 0.010  |
| VI    | 57  | Arsenic acid*   | 7778-39-4                | 0.010  |
| VI    | 58  | Bis(2-methoxyethyl) ether   | 111-96-6                 | 0.100  |
| VI    | 59  | Bis(2-methoxyethyl) phthalate   | 117-82-8                 | 0.100  |



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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name   | CAS No.                  | RL (%) |
|-------|-----|--|--------------------------|--------|
| VI    | 60  | Calcium arsenate*  | 7778-44-1                | 0.010  |
| VI    | 61  | Dichromium tris(chromate) *  | 24613-89-6               | 0.010  |
| VI    | 62  | Formaldehyde, oligomeric reaction products with aniline  | 25214-70-4               | 0.100  |
| VI    | 63  | Lead diazide, Lead azide*  | 13424-46-9               | 0.010  |
| VI    | 64  | Lead dipicrate*  | 6477-64-1                | 0.010  |
| VI    | 65  | Lead styphnate*  | 15245-44-0               | 0.010  |
| VI    | 66  | N,N-dimethylacetamide  | 127-19-5                 | 0.100  |
| VI    | 67  | Pentazinc chromate octahydroxide*  | 49663-84-5               | 0.010  |
| VI    | 68  | Phenolphthalein  | 77-09-8                  | 0.100  |
| VI    | 69  | Potassium hydroxyoctaoxodizincatedichromate*   | 11103-86-9               | 0.010  |
| VI    | 70  | Trilead diarsenate*  | 3687-31-8                | 0.010  |
| VI    | 71  | Zirconia Aluminosilicate Refractory Ceramic Fibres*  | 650-017-00-8 (Index no.) | 0.010  |
| VII   | 72  | [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                | 0.100  |
| VII   | 73  | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§                 | 548-62-9                 | 0.100  |
| VII   | 74  | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)  | 112-49-2                 | 0.100  |
| VII   | 75  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)  | 110-71-4                 | 0.100  |
| VII   | 76  | 4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)  | 90-94-8                  | 0.100  |
| VII   | 77  | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§   | 561-41-1                 | 0.100  |
| VII   | 78  | Diboron trioxide*  | 1303-86-2                | 0.010  |



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# Test Report (SVHC)

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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.     | RL (%) |
|-------|-----|---|-------------|--------|
| VII   | 79  | Formamide   | 75-12-7     | 0.100  |
| VII   | 80  | Lead(II) bis(methanesulfonate)*   | 17570-76-2  | 0.010  |
| VII   | 81  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)  | 101-61-1    | 0.100  |
| VII   | 82  | TGIC<br>(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)  | 2451-62-9   | 0.100  |
| VII   | 83  | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4<br>(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)<br>§ | 6786-83-0   | 0.100  |
| VII   | 84  | $\beta$ -TGIC (1,3,5-tris[(2S and<br>2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)                 | 59653-74-6  | 0.100  |
| VIII  | 85  | [Phthalato(2-)]dioxotrilead*  | 69011-06-9  | 0.010  |
| VIII  | 86  | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | 84777-06-0  | 0.100  |
| VIII  | 87  | 1,2-Diethoxyethane  | 629-14-1    | 0.100  |
| VIII  | 88  | 1-Bromopropane  | 106-94-5    | 0.100  |
| VIII  | 89  | 3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine  | 143860-04-2 | 0.100  |
| VIII  | 90  | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated   | -           | 0.100  |
| VIII  | 91  | 4,4'-Methylenedi-o-toluidine  | 838-88-0    | 0.100  |
| VIII  | 92  | 4,4'-Oxydianiline and its salts   | 101-80-4    | 0.100  |
| VIII  | 93  | 4-Aminoazobenzene   | 60-09-3     | 0.100  |
| VIII  | 94  | 4-Methyl-m-phenylenediamine   | 95-80-7     | 0.100  |
| VIII  | 95  | 4-Nonylphenol, branched and linear  | -           | 0.100  |
| VIII  | 96  | 6-Methoxy-m-toluidine   | 120-71-8    | 0.100  |
| VIII  | 97  | Acetic acid, lead salt, basic*  | 51404-69-4  | 0.010  |



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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name   | CAS No.                           | RL (%) |
|-------|-----|--|-----------------------------------|--------|
| VIII  | 98  | Biphenyl-4-ylamine   | 92-67-1                           | 0.100  |
| VIII  | 99  | Bis(pentabromophenyl) ether (DecaBDE)  | 1163-19-5                         | 0.100  |
| VIII  | 100 | Cyclohexane-1,2-dicarboxylic anhydride,<br>cis-cyclohexane-1,2-dicarboxylic anhydride,<br>trans-cyclohexane-1,2-dicarboxylic anhydride                       | 85-42-7,13149-00-3,1<br>4166-21-3 | 0.100  |
| VIII  | 101 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))  | 123-77-3                          | 0.100  |
| VIII  | 102 | Dibutyltin dichloride (DBTC)   | 683-18-1                          | 0.100  |
| VIII  | 103 | Diethyl sulphate   | 64-67-5                           | 0.100  |
| VIII  | 104 | Diisopentylphthalate   | 605-50-5                          | 0.100  |
| VIII  | 105 | Dimethyl sulphate  | 77-78-1                           | 0.100  |
| VIII  | 106 | Dinoseb  | 88-85-7                           | 0.100  |
| VIII  | 107 | Dioxobis(stearato)trilead*   | 12578-12-0                        | 0.010  |
| VIII  | 108 | Fatty acids, C16-18, lead salts*   | 91031-62-8                        | 0.010  |
| VIII  | 109 | Furan  | 110-00-9                          | 0.100  |
| VIII  | 110 | Henicosfluoroundecanoic acid   | 2058-94-8                         | 0.100  |
| VIII  | 111 | Heptacosfluorotetradecanoic acid   | 376-06-7                          | 0.100  |
| VIII  | 112 | Hexahydromethylphthalic anhydride,<br>Hexahydro-4-methylphthalic anhydride,<br>Hexahydro-1-methylphthalic anhydride,<br>Hexahydro-3-methylphthalic anhydride | ☆                                 | 0.100  |
| VIII  | 113 | Lead bis(tetrafluoroborate)*   | 13814-96-5                        | 0.010  |
| VIII  | 114 | Lead cyanamidate*  | 20837-86-9                        | 0.010  |
| VIII  | 115 | Lead dinitrate*  | 10099-74-8                        | 0.010  |
| VIII  | 116 | Lead monoxide*   | 1317-36-8                         | 0.010  |



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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.     | RL (%) |
|-------|-----|---|-------------|--------|
| VIII  | 117 | Lead oxide sulfate*                                       | 12036-76-9  | 0.010  |
| VIII  | 118 | Lead tetroxide (orange lead)*                             | 1314-41-6   | 0.010  |
| VIII  | 119 | Lead titanium trioxide*                                   | 12060-00-3  | 0.010  |
| VIII  | 120 | Lead titanium zirconium oxide*                            | 12626-81-2  | 0.010  |
| VIII  | 121 | Methoxyacetic acid  | 625-45-6    | 0.100  |
| VIII  | 122 | Methyloxirane (Propylene oxide)                           | 75-56-9     | 0.100  |
| VIII  | 123 | N,N-dimethylformamide                                     | 68-12-2     | 0.100  |
| VIII  | 124 | N-Methylacetamide   | 79-16-3     | 0.100  |
| VIII  | 125 | N-Pentyl-isopentylphthalate                               | 776297-69-9 | 0.100  |
| VIII  | 126 | o-Aminoazotoluene   | 97-56-3     | 0.100  |
| VIII  | 127 | o-Toluidine   | 95-53-4     | 0.100  |
| VIII  | 128 | Pentacosaflluorotridecanoic acid                          | 72629-94-8  | 0.100  |
| VIII  | 129 | Pentalead tetraoxide sulphate*                            | 12065-90-6  | 0.010  |
| VIII  | 130 | Pyrochlore, antimony lead yellow*                         | 8012-00-8   | 0.010  |
| VIII  | 131 | Silicic acid, barium salt, lead-doped*                    | 68784-75-8  | 0.010  |
| VIII  | 132 | Silicic acid, lead salt*                                  | 11120-22-2  | 0.010  |
| VIII  | 133 | Sulfurous acid, lead salt, dibasic*                       | 62229-08-7  | 0.010  |
| VIII  | 134 | Tetraethyllead*   | 78-00-2     | 0.010  |
| VIII  | 135 | Tetralead trioxide sulphate*                              | 12202-17-4  | 0.010  |
| VIII  | 136 | Tricosaflluorododecanoic acid                             | 307-55-1    | 0.100  |
| VIII  | 137 | Trilead bis(carbonate)dihydroxide (basic lead carbonate)* | 1319-46-6   | 0.010  |



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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name   | CAS No.    | RL (%) |
|-------|-----|--|------------|--------|
| VIII  | 138 | Trilead dioxide phosphonate*   | 12141-20-7 | 0.010  |
| IX    | 139 | 4-Nonylphenol, branched and linear, ethoxylated  | -          | 0.100  |
| IX    | 140 | Ammonium pentadecafluorooctanoate (APFO)   | 3825-26-1  | 0.100  |
| IX    | 141 | Cadmium oxide*   | 1306-19-0  | 0.010  |
| IX    | 142 | Cadmium*   | 7440-43-9  | 0.010  |
| IX    | 143 | Dipentyl phthalate (DPP)   | 131-18-0   | 0.100  |
| IX    | 144 | Pentadecafluorooctanoic acid (PFOA)  | 335-67-1   | 0.100  |
| X     | 145 | Cadmium sulphide*  | 1306-23-6  | 0.010  |
| X     | 146 | Dihexyl phthalate  | 84-75-3    | 0.100  |
| X     | 147 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)   | 573-58-0   | 0.100  |
| X     | 148 | Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) | 1937-37-7  | 0.100  |
| X     | 149 | Imidazolidine-2-thione; (2-imidazoline-2-thiol)  | 96-45-7    | 0.100  |
| X     | 150 | Lead di(acetate)*  | 301-04-2   | 0.010  |
| X     | 151 | Trixylyl phosphate   | 25155-23-1 | 0.100  |
| XI    | 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 68515-50-4 | 0.100  |
| XI    | 153 | Cadmium chloride*  | 10108-64-2 | 0.010  |
| XI    | 154 | Sodium perborate; perboric acid, sodium salt*  | -          | 0.010  |
| XI    | 155 | Sodium peroxometaborate*   | 7632-04-4  | 0.010  |



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## Appendix

### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.                           | RL (%) |
|-------|-----|---|-----------------------------------|--------|
| XII   | 156 | 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)  | 25973-55-1                        | 0.100  |
| XII   | 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)  | 3846-71-7                         | 0.100  |
| XII   | 158 | 2-Ethylhexyl<br>10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE  | 15571-58-1                        | 0.100  |
| XII   | 159 | Cadmium fluoride*   | 7790-79-6                         | 0.010  |
| XII   | 160 | Cadmium sulphate*   | 10124-36-4,<br>31119-53-6         | 0.010  |
| XII   | 161 | Reaction mass of 2-ethylhexyl<br>10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-<br>[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE) | -                                 | 0.100  |
| XIII  | 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters;<br>1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate   | 68515-51-5,<br>68648-93-1         | 0.100  |
| XIII  | 163 | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1],<br>5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]<br>[covering any of the individual isomers of [1] and [2] or any combination thereof]                       | -                                 | 0.100  |
| XIV   | 164 | 1,3-propanesultone  | 1120-71-4                         | 0.100  |
| XIV   | 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)  | 3864-99-1                         | 0.100  |
| XIV   | 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)  | 36437-37-3                        | 0.100  |
| XIV   | 167 | Nitrobenzene  | 98-95-3                           | 0.100  |
| XIV   | 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts   | 375-95-1,21049-39-8,<br>4149-60-4 | 0.100  |
| XV    | 169 | Benzo[def]chrysene (Benzo[a]pyrene)   | 50-32-8                           | 0.100  |



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## Appendix

### Full list of tested SVHC:

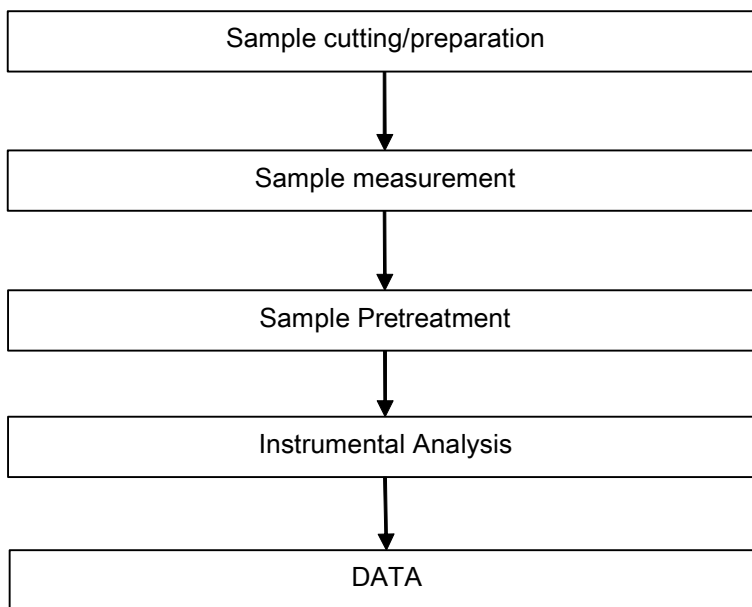
| Batch | No. | Substance Name   | CAS No.                          | RL (%) |
|-------|-----|--|----------------------------------|--------|
| XVI   | 170 | 4,4'-isopropylidenediphenol (bisphenol A)  | 80-05-7                          | 0.100  |
| XVI   | 171 | 4-Heptylphenol, branched and linear  | -                                | 0.100  |
| XVI   | 172 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts   | 3108-42-7,335-76-2,3<br>830-45-3 | 0.100  |
| XVI   | 173 | p-(1,1-dimethylpropyl)phenol   | 80-46-6                          | 0.100  |
| XVII  | 174 | Perfluorohexane-1-sulphonic acid and its salts   | -                                | 0.100  |
| XVIII | 175 | Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]  | -                                | 0.100  |
| XVIII | 176 | Benz[a]anthracene  | 56-55-3, 1718-53-2               | 0.100  |
| XVIII | 177 | Cadmium nitrate*   | 10022-68-1,<br>10325-94-7        | 0.010  |
| XVIII | 178 | Cadmium carbonate*   | 513-78-0                         | 0.010  |
| XVIII | 179 | Cadmium hydroxide*   | 21041-95-2                       | 0.010  |
| XVIII | 180 | Chrysene   | 218-01-9,<br>1719-03-5           | 0.100  |
| XVIII | 181 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear] | -                                | 0.100  |



## ATTACHMENTS

### SVHC Testing Flow Chart

- 1) Name of the person who made testing: Hogan Lv / Iris Zhong
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu



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|--------------|-----------------|----------------|----------------------|-----------------------|
| BS LC 12     | BS 4RK SC 5     | BS RK 60 ST-ID | BS 8 BNC 5V          | BS RJ45 V 2 IN 1/12V  |
| BS LC 24     | BS 4RK SC 12    | BS RK 24 ST-DI | BS 16 BNC 5V         | BS RJ45 V 2 IN 1/24V  |
| BS LC 48     | BS 4RK SC 24    | BS RK 24 ST-DD | BS 24 BNC 5V         | BS RJ45 V 2 IN 1/48V  |
| BS LC 60     | BS 4RK SC 36    | BS RK 60 ST-DI | BS RJ45G 48 (A)      | BS RJ45 V 2 IN 1/220V |
| BS LC 110    | BS 4RK SC 48    | BS RK 60 ST-DD | BS RJ45G 48 (B)      | BS V 2 IN 1/12V       |
| BS LC 380    | BS 4RK SC 60    | BS RK 5 TR-II  | BS RJ45G 5 (A)       | BS V 2 IN 1/24V       |
| BS LC 500    | BS 4RK SC 110   | BS RK 5 TR-ID  | BS RJ45G 5 (B)       | BS V 2 IN 1/48V       |
| BS LD 12     | BS 4RK SD 5     | BS RK 5 TR-DI  | BS RJ45 5V (A)       | BS V 2 IN 1/220V      |
| BS LD 24     | BS 4RK SD 12    | BS RK 5 TR-DD  | BS RJ45 5V (B)       | BS V 3 IN 1/12V       |
| BS LD 48     | BS 4RK SD 24    | BS HFD 48      | BS RJ45 24V (A)      | BS V 3 IN 1/24V       |
| BS LD 60     | BS 4RK SD 36    | BS HFD 60      | BS RJ45 24V (B)      | BS V 3 IN 1/48V       |
| BS LD 110    | BS 4RK SD 48    | BS HFD 110     | BS RMT 24V (A)       | BS V 3 IN 1/220V      |
| BS L CD      | BS 4RK SD 60    | BS 4RK SDD 24  | BS RMT 24V (B)       | BS VS 3 IN 1/12V(A)   |
| BS SHFD 5    | BS 4RK SD 110   | BS 4RK SDD 36  | BS POE 5V            | BS VS 3 IN 1/24V(A)   |
| BS SHFD 12   | BS 4RK SCD 5    | BS 4RK SDD 48  | BS POE 7.5V          | BS VS 3 IN 1/48V(A)   |
| BS SHFD 24   | BS 4RK SCD 12   | BS LSA C5L     | BS RJ 11 110V (A)    | BS VS 3 IN 1/12V (B)  |
| BS SHFD 48   | BS 4RK SCD 24   | BS LSA C12L    | BS RJ 11 110V (B)    | BS VS 3 IN 1/24V (B)  |
| BS SHFD 60   | BS 4RK SCD 36   | BS LSA C15L    | BS BNC 5V (A)        | BS VS 3 IN 1/48V (B)  |
| BS SHFD 110  | BS 4RK SCD 48   | BS LSA C24L    | BS BNC 5V (B)        | BS NP 4TP E1000 5V    |
| BS HFD 5     | BS 4RK SCD 110  | BS LSA C48L    | BS CAB-V             | BS NP 4TP 1X E1000 5V |
| BS HFD 12    | BS 4RK SDD 5    | BS LSA C60L    | BS V BNC (A)         | BS NP 4TP 2X E1000 5V |
| BS HFD 24    | BS 4RK SDD 12   | BS LSA C110L   | BS V BNC (B)         | BS NP 4TP 3X E1000 5V |
| BS HFD 36    | BS 4RK SDD 24   | BS LSA C5R     | BS CTV 24(A)         | BS NP 4TP 1X Series.. |
| BS TC-ID 5   | BS 4RK SHFD 5   | BS LSA C12R    | BS CTV 24(B)         | BS NP 4TP 2X Series.. |
| BS RK SC 5   | BS 4RK SHFD 12  | BS LSA C24R    | BS RJ45 E1000 5V (A) | BS NP 4TP 3X Series.. |
| BS RK SC 12  | BS 4RK SHFD 24  | BS LSA C48R    | BS RJ45 E1000 5V (B) | BS BNC G              |
| BS RK SC 24  | BS 4RK SHFD 48  | BS LSA C60R    | BS NP 4TP 5V         | BS N GA               |
| BS RK SC 36  | BS 4RK SHFD 60  | BS LSA C110R   | BS NP 4TP 24V        | BS N GB               |
| BS RK SC 48  | BS 4RK SHFD 110 | BS LSA D110R   | BS NP 4TP 48V        | BS L4J N              |
| BS RK SC 60  | BS 4RK HFD 5    | BS LSA D250R   | BS RK 12 ST-3 DI     | BS L4JY N             |
| BS RK SC 110 | BS 4RK HFD 12   | BS LSA 1G 110  | BS RK 12 ST-3 DD     | BS PI SCD 24 M        |
| BS RK SD 5   | BS 4RK HFD 24   | BS LSA 10G 110 | BS RK 24 ST-3 DI     | BS L4 7/16 A          |
| BS RK SD 12  | BS 4RK HFD 48   | BS LSA X C110  | BS RK 24 ST-3 DD     | BS L4 7/16            |



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|              |                |                 |                  |        |
|--------------|----------------|-----------------|------------------|--------|
| BS RK SD 48  | BS 4RK HFD 60  | BS LSA X C110 S | E-3              | T-1    |
| BS RK SD 110 | BS 4RK HFD 110 | BS LSA X D110R  | E-4              | T-2    |
| BS RK SD 12  | BS RK 5 RS-II  | BS LSA X D250R  | E-5              | T-3    |
| BS RK SD 24  | BS RK 5 RS-ID  | BS RS 9P        | E-10             | T-4    |
| BS RK SD 48  | BS RK 24 PA-II | BS RS 15P       | BS NP 4TP 1X 5V  | C-10   |
| BS RK SD 110 | BS RK 24 PA-ID | BS RS 25P       | BS NP 4TP 1X 24V | PET-16 |
| BS RK C 12   | BS RK 5 TC-II  | BS RS 37P       | BS NP 4TP 1X 48V | L-10   |
| BS RK C 24   | BS RK 5 TC-ID  | BS TTY 24       | BS NP 4TP 2X 5V  |        |
| BS RK C 48   | BS RK 5 TC-DI  | BS TTY 36       | BS NP 4TP 2X 24V |        |
| BS RK C 60   | BS RK 5 TC-DD  | BS RS485 5      | BS NP 4TP 2X 48V |        |
| BS RK C 110  | BS RK 24 ST-II | BS AD 24        | BS NP 4TP 3X 5V  |        |
| BS RK C 180  | BS RK 24 ST-ID | R-10a           | BS NP 4TP 3X 24V |        |
| BS 4RK SC 5  | BS RK 60 ST-II | R-10b           | BS NP 4TP 3X 48V |        |



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Sample photo:



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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



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