



## Test Report (SVHC)

No. CANEC2119457320

Date: 04 Nov 2021

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SHENZHEN REFOND OPTOELECTRONICS CO.,LTD  
6TH FLOOR,BUILDING #1,10TH INDUSTRIAL ZONE,TIAN LIAO COMMUNITY,GONG MING AREA,GUANG  
MING NEW DISTRICT,SHENZHEN,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : White SMD Chip LED

SGS Job No. : CP21-055665 - SZ

Date of Sample Received : 21 Oct 2021

Testing Period : 21 Oct 2021 - 02 Nov 2021

Test Requested : As requested by client, SVHC screening is performed according to:  
(i) Two hundred and nineteen (219) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jul 8, 2021 regarding Regulation (EC) No 1907/2006 concerning the REACH.  
(ii) One (1) potential Substances of Very High Concern (SVHC) in the notification of WTO on Jun 1, 2021.  
(iii) Four (4) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Sep 3, 2021 regarding Regulation (EC) No 1907/2006 concerning the REACH.

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

### Summary :

|   |      |
|---|------|
| According to the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the submitted sample. | PASS |
|---|------|

*Coral Qiu*

Coral Qiu

Approved Signatory

scan to see the report



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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. REACH obligation:
  - 2.1 Concerning article(s):  
Communication:  
Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, 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.

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite 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          | CAN21-194573.008 | "White SMD Chip LED" |

### Test Method :

SGS In-House method- SGS-CCL-TOP-092-01, SGS-CCL-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. | 008<br>Concentration (%) | RL (%) |
|-------|-----------------------------------|---------|--------------------------|--------|
| -     | All tested SVHC in candidate list | -       | ND                       | -      |

## Test Result: (Potential SVHC)

| Batch | Substance Name            | CAS No. | 008<br>Concentration (%) | RL (%) |
|-------|---------------------------|---------|--------------------------|--------|
| -     | All tested Potential SVHC | -       | 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 (Test data will be shown if it  $\geq$  RL. RL is not regulatory limit.) 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.
4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium, barium, sulphur and phosphorus respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).



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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                 | 0.050  |
| I     | 2   | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)   | 81-15-2                  | 0.050  |
| I     | 3   | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)  | 85535-84-8               | 0.050  |
| I     | 4   | Anthracene   | 120-12-7                 | 0.050  |
| I     | 5   | Benzyl butyl phthalate (BBP)   | 85-68-7                  | 0.050  |
| I     | 6   | Bis (2-ethylhexyl)phthalate (DEHP)   | 117-81-7                 | 0.050  |
| I     | 7   | Bis(tributyltin)oxide (TBTO)   | 56-35-9                  | 0.050  |
| I     | 8   | Cobalt dichloride*   | 7646-79-9                | 0.005  |
| I     | 9   | Diarsenic pentaoxide*  | 1303-28-2                | 0.005  |
| I     | 10  | Diarsenic trioxide*  | 1327-53-3                | 0.005  |
| I     | 11  | Dibutyl phthalate (DBP)  | 84-74-2                  | 0.050  |
| I     | 12  | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | -                        | 0.050  |
| I     | 13  | Lead hydrogen arsenate*  | 7784-40-9                | 0.005  |
| I     | 14  | Sodium dichromate*   | 7789-12-0,<br>10588-01-9 | 0.005  |
| I     | 15  | Triethyl arsenate*   | 15606-95-8               | 0.005  |
| II    | 16  | 2,4-Dinitrotoluene   | 121-14-2                 | 0.050  |
| II    | 17  | Acrylamide   | 79-06-1                  | 0.050  |
| II    | 18  | Anthracene oil**   | 90640-80-5               | 0.050  |
| II    | 19  | Anthracene oil, anthracene paste**   | 90640-81-6               | 0.050  |
| II    | 20  | Anthracene oil, anthracene paste, anthracene fraction**  | 91995-15-2               | 0.050  |



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| Batch | No. | Substance Name  | CAS No.                                | RL (%) |
|-------|-----|---|--|--------|
| II    | 21  | Anthracene oil, anthracene paste, distn. lights**                                 | 91995-17-4                             | 0.050  |
| II    | 22  | Anthracene oil, anthracene-low**  | 90640-82-7                             | 0.050  |
| II    | 23  | Diisobutyl phthalate  | 84-69-5                                | 0.050  |
| II    | 24  | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*                      | 12656-85-8                             | 0.005  |
| II    | 25  | Lead chromate*  | 7758-97-6                              | 0.005  |
| II    | 26  | Lead sulfochromate yellow (C.I. Pigment Yellow 34)*                               | 1344-37-2                              | 0.005  |
| II    | 27  | Pitch, coal tar, high temp.**   | 65996-93-2                             | 0.050  |
| II    | 28  | Tris(2-chloroethyl)phosphate  | 115-96-8                               | 0.050  |
| III   | 29  | Ammonium dichromate*  | 7789-09-5                              | 0.005  |
| III   | 30  | Boric acid*   | -                                      | 0.005  |
| III   | 31  | Disodium tetraborate, anhydrous*  | 1303-96-4,<br>1330-43-4,<br>12179-04-3 | 0.005  |
| III   | 32  | Potassium chromate*   | 7789-00-6                              | 0.005  |
| III   | 33  | Potassium dichromate*   | 7778-50-9                              | 0.005  |
| III   | 34  | Sodium chromate*  | 7775-11-3                              | 0.005  |
| III   | 35  | Tetraboron disodium heptaoxide, hydrate*  | 12267-73-1                             | 0.005  |
| III   | 36  | Trichloroethylene   | 79-01-6                                | 0.050  |
| IV    | 37  | 2-Ethoxyethanol   | 110-80-5                               | 0.050  |
| IV    | 38  | 2-Methoxyethanol  | 109-86-4                               | 0.050  |
| IV    | 39  | Chromic acid,<br>Oligomers of chromic acid and dichromic acid,<br>Dichromic acid* | -                                      | 0.005  |



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| Batch | No. | Substance Name  | CAS No.                | RL (%) |
|-------|-----|---|------------------------|--------|
| IV    | 40  | Chromium trioxide*  | 1333-82-0              | 0.005  |
| IV    | 41  | Cobalt(II) carbonate*   | 513-79-1               | 0.005  |
| IV    | 42  | Cobalt(II) diacetate*   | 71-48-7                | 0.005  |
| IV    | 43  | Cobalt(II) dinitrate*   | 10141-05-6             | 0.005  |
| IV    | 44  | Cobalt(II) sulphate*  | 10124-43-3             | 0.005  |
| V     | 45  | 1,2,3-trichloropropane  | 96-18-4                | 0.050  |
| V     | 46  | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich    | 71888-89-6             | 0.050  |
| V     | 47  | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters | 68515-42-4             | 0.050  |
| V     | 48  | 1-methyl-2-pyrrolidone  | 872-50-4               | 0.050  |
| V     | 49  | 2-ethoxyethyl acetate   | 111-15-9               | 0.050  |
| V     | 50  | Hydrazine   | 7803-57-8,<br>302-01-2 | 0.050  |
| V     | 51  | Strontium chromate*   | 7789-06-2              | 0.005  |
| VI    | 52  | 1,2-Dichloroethane  | 107-06-2               | 0.050  |
| VI    | 53  | 2,2'-dichloro-4,4'-methylenedianiline                                   | 101-14-4               | 0.050  |
| VI    | 54  | 2-Methoxyaniline; o-Anisidine   | 90-04-0                | 0.050  |
| VI    | 55  | 4-(1,1,3,3-tetramethylbutyl)phenol                                      | 140-66-9               | 0.050  |
| VI    | 56  | Aluminosilicate Refractory Ceramic Fibres *                             | -                      | 0.005  |
| VI    | 57  | Arsenic acid*   | 7778-39-4              | 0.005  |
| VI    | 58  | Bis(2-methoxyethyl) ether   | 111-96-6               | 0.050  |
| VI    | 59  | Bis(2-methoxyethyl) phthalate   | 117-82-8               | 0.050  |





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| Batch | No. | Substance Name   | CAS No.    | RL (%) |
|-------|-----|--|------------|--------|
| VI    | 60  | Calcium arsenate*  | 7778-44-1  | 0.005  |
| VI    | 61  | Dichromium tris(chromate) *  | 24613-89-6 | 0.005  |
| VI    | 62  | Formaldehyde, oligomeric reaction products with aniline  | 25214-70-4 | 0.050  |
| VI    | 63  | Lead diazide, Lead azide*  | 13424-46-9 | 0.005  |
| VI    | 64  | Lead dipicrate*  | 6477-64-1  | 0.005  |
| VI    | 65  | Lead styphnate*  | 15245-44-0 | 0.005  |
| VI    | 66  | N,N-dimethylacetamide  | 127-19-5   | 0.050  |
| VI    | 67  | Pentazinc chromate octahydroxide*  | 49663-84-5 | 0.005  |
| VI    | 68  | Phenolphthalein  | 77-09-8    | 0.050  |
| VI    | 69  | Potassium hydroxyoctaoxodizincatedichromate*   | 11103-86-9 | 0.005  |
| VI    | 70  | Trilead diarsenate*  | 3687-31-8  | 0.005  |
| VI    | 71  | Zirconia Aluminosilicate Refractory Ceramic Fibres*  | -          | 0.005  |
| 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  | 0.050  |
| VII   | 73  | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§                  | 548-62-9   | 0.050  |
| VII   | 74  | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)  | 112-49-2   | 0.050  |
| VII   | 75  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)  | 110-71-4   | 0.050  |
| VII   | 76  | 4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)  | 90-94-8    | 0.050  |
| VII   | 77  | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§   | 561-41-1   | 0.050  |
| VII   | 78  | Diboron trioxide*  | 1303-86-2  | 0.005  |



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| Batch | No. | Substance Name  | CAS No.     | RL (%) |
|-------|-----|---|-------------|--------|
| VII   | 79  | Formamide   | 75-12-7     | 0.050  |
| VII   | 80  | Lead(II) bis(methanesulfonate)*   | 17570-76-2  | 0.005  |
| VII   | 81  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)  | 101-61-1    | 0.050  |
| VII   | 82  | TGIC<br>(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)  | 2451-62-9   | 0.050  |
| VII   | 83  | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4<br>(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)<br>§ | 6786-83-0   | 0.050  |
| 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  | 0.050  |
| VIII  | 85  | [Phthalato(2-)]dioxotrilead*  | 69011-06-9  | 0.005  |
| VIII  | 86  | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | 84777-06-0  | 0.050  |
| VIII  | 87  | 1,2-Diethoxyethane  | 629-14-1    | 0.050  |
| VIII  | 88  | 1-Bromopropane  | 106-94-5    | 0.050  |
| VIII  | 89  | 3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine  | 143860-04-2 | 0.050  |
| VIII  | 90  | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated   | -           | 0.050  |
| VIII  | 91  | 4,4'-Methylenedi-o-toluidine  | 838-88-0    | 0.050  |
| VIII  | 92  | 4,4'-Oxydianiline and its salts   | 101-80-4    | 0.050  |
| VIII  | 93  | 4-Aminoazobenzene   | 60-09-3     | 0.050  |
| VIII  | 94  | 4-Methyl-m-phenylenediamine   | 95-80-7     | 0.050  |
| VIII  | 95  | 4-Nonylphenol, branched and linear  | -           | 0.050  |
| VIII  | 96  | 6-Methoxy-m-toluidine   | 120-71-8    | 0.050  |
| VIII  | 97  | Acetic acid, lead salt, basic*  | 51404-69-4  | 0.005  |



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| Batch | No. | Substance Name   | CAS No.    | RL (%) |
|-------|-----|--|------------|--------|
| VIII  | 98  | Biphenyl-4-ylamine   | 92-67-1    | 0.050  |
| VIII  | 99  | Bis(pentabromophenyl) ether (DecaBDE)  | 1163-19-5  | 0.050  |
| VIII  | 100 | Cyclohexane-1,2-dicarboxylic anhydride,<br>cis-cyclohexane-1,2-dicarboxylic anhydride,<br>trans-cyclohexane-1,2-dicarboxylic anhydride                       | -          | 0.050  |
| VIII  | 101 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))  | 123-77-3   | 0.050  |
| VIII  | 102 | Dibutyltin dichloride (DBTC)   | 683-18-1   | 0.050  |
| VIII  | 103 | Diethyl sulphate   | 64-67-5    | 0.050  |
| VIII  | 104 | Diisopentylphthalate   | 605-50-5   | 0.050  |
| VIII  | 105 | Dimethyl sulphate  | 77-78-1    | 0.050  |
| VIII  | 106 | Dinoseb  | 88-85-7    | 0.050  |
| VIII  | 107 | Dioxobis(stearato)trilead*   | 12578-12-0 | 0.005  |
| VIII  | 108 | Fatty acids, C16-18, lead salts*   | 91031-62-8 | 0.005  |
| VIII  | 109 | Furan  | 110-00-9   | 0.050  |
| VIII  | 110 | Henicosafuoroundecanoic acid   | 2058-94-8  | 0.050  |
| VIII  | 111 | Heptacosafuorotetradecanoic acid   | 376-06-7   | 0.050  |
| VIII  | 112 | Hexahydromethylphthalic anhydride,<br>Hexahydro-4-methylphthalic anhydride,<br>Hexahydro-1-methylphthalic anhydride,<br>Hexahydro-3-methylphthalic anhydride | -          | 0.050  |
| VIII  | 113 | Lead bis(tetrafluoroborate)*   | 13814-96-5 | 0.005  |
| VIII  | 114 | Lead cyanamidate*  | 20837-86-9 | 0.005  |
| VIII  | 115 | Lead dinitrate*  | 10099-74-8 | 0.005  |
| VIII  | 116 | Lead monoxide*   | 1317-36-8  | 0.005  |



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| Batch | No. | Substance Name  | CAS No.     | RL (%) |
|-------|-----|---|-------------|--------|
| VIII  | 117 | Lead oxide sulfate*                                       | 12036-76-9  | 0.005  |
| VIII  | 118 | Lead tetroxide (orange lead)*                             | 1314-41-6   | 0.005  |
| VIII  | 119 | Lead titanium trioxide*                                   | 12060-00-3  | 0.005  |
| VIII  | 120 | Lead titanium zirconium oxide*                            | 12626-81-2  | 0.005  |
| VIII  | 121 | Methoxyacetic acid  | 625-45-6    | 0.050  |
| VIII  | 122 | Methyloxirane (Propylene oxide)                           | 75-56-9     | 0.050  |
| VIII  | 123 | N,N-dimethylformamide                                     | 68-12-2     | 0.050  |
| VIII  | 124 | N-Methylacetamide   | 79-16-3     | 0.050  |
| VIII  | 125 | N-Pentyl-isopentylphthalate                               | 776297-69-9 | 0.050  |
| VIII  | 126 | o-Aminoazotoluene   | 97-56-3     | 0.050  |
| VIII  | 127 | o-Toluidine   | 95-53-4     | 0.050  |
| VIII  | 128 | Pentacosfluorotridecanoic acid                            | 72629-94-8  | 0.050  |
| VIII  | 129 | Pentalead tetraoxide sulphate*                            | 12065-90-6  | 0.005  |
| VIII  | 130 | Pyrochlore, antimony lead yellow*                         | 8012-00-8   | 0.005  |
| VIII  | 131 | Silicic acid, barium salt, lead-doped*                    | 68784-75-8  | 0.005  |
| VIII  | 132 | Silicic acid, lead salt*                                  | 11120-22-2  | 0.005  |
| VIII  | 133 | Sulfurous acid, lead salt, dibasic*                       | 62229-08-7  | 0.005  |
| VIII  | 134 | Tetraethyllead*   | 78-00-2     | 0.005  |
| VIII  | 135 | Tetralead trioxide sulphate*                              | 12202-17-4  | 0.005  |
| VIII  | 136 | Tricosfluorododecanoic acid                               | 307-55-1    | 0.050  |
| VIII  | 137 | Trilead bis(carbonate)dihydroxide (basic lead carbonate)* | 1319-46-6   | 0.005  |



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#### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.    | RL (%) |
|-------|-----|---|------------|--------|
| VIII  | 138 | Trilead dioxide phosphonate*  | 12141-20-7 | 0.005  |
| IX    | 139 | 4-Nonylphenol, branched and linear, ethoxylated   | -          | 0.050  |
| IX    | 140 | Ammonium pentadecafluorooctanoate (APFO)**  | 3825-26-1  | 0.050  |
| IX    | 141 | Cadmium oxide*  | 1306-19-0  | 0.005  |
| IX    | 142 | Cadmium   | 7440-43-9  | 0.005  |
| IX    | 143 | Dipentyl phthalate (DPP)  | 131-18-0   | 0.050  |
| IX    | 144 | Pentadecafluorooctanoic acid (PFOA)   | 335-67-1   | 0.050  |
| X     | 145 | Cadmium sulphide*   | 1306-23-6  | 0.005  |
| X     | 146 | Dihexyl phthalate   | 84-75-3    | 0.050  |
| 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   | 0.050  |
| 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  | 0.050  |
| X     | 149 | Imidazolidine-2-thione; (2-imidazoline-2-thiol)   | 96-45-7    | 0.050  |
| X     | 150 | Lead di(acetate)*   | 301-04-2   | 0.005  |
| X     | 151 | Trixylyl phosphate  | 25155-23-1 | 0.050  |
| XI    | 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear  | 68515-50-4 | 0.050  |
| XI    | 153 | Cadmium chloride*   | 10108-64-2 | 0.005  |
| XI    | 154 | Sodium perborate; perboric acid, sodium salt*   | -          | 0.005  |
| XI    | 155 | Sodium peroxometaborate*  | 7632-04-4  | 0.005  |



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| Batch | No. | Substance Name  | CAS No.                   | RL (%) |
|-------|-----|---|---------------------------|--------|
| XII   | 156 | 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)  | 25973-55-1                | 0.050  |
| XII   | 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)  | 3846-71-7                 | 0.050  |
| XII   | 158 | 2-Ethylhexyl<br>10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatradecanoate; DOTE  | 15571-58-1                | 0.050  |
| XII   | 159 | Cadmium fluoride*   | 7790-79-6                 | 0.005  |
| XII   | 160 | Cadmium sulphate*   | 10124-36-4,<br>31119-53-6 | 0.005  |
| XII   | 161 | Reaction mass of 2-ethylhexyl<br>10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-<br>[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatradecanoate (reaction mass of DOTE & MOTE) | -                         | 0.050  |
| XIII  | 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters;<br>1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate   | -                         | 0.050  |
| 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]                   | -                         | 0.050  |
| XIV   | 164 | 1,3-propanesultone  | 1120-71-4                 | 0.050  |
| XIV   | 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)  | 3864-99-1                 | 0.050  |
| XIV   | 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)  | 36437-37-3                | 0.050  |
| XIV   | 167 | Nitrobenzene  | 98-95-3                   | 0.050  |
| XIV   | 168 | Perfluorononan-1-oiic-acid and its sodium and ammonium salts  | -                         | 0.050  |
| XV    | 169 | Benzo[def]chrysene (Benzo[a]pyrene)   | 50-32-8                   | 0.050  |



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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    | 0.050  |
| XVI   | 171 | 4-Heptylphenol, branched and linear  | -          | 0.050  |
| XVI   | 172 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts   | -          | 0.050  |
| XVI   | 173 | p-(1,1-dimethylpropyl)phenol   | 80-46-6    | 0.050  |
| XVII  | 174 | Perfluorohexane-1-sulphonic acid and its salts   | -          | 0.050  |
| XVIII | 175 | 1,6,7,8,9,14,15,16,17,17,18,18-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] | -          | 0.050  |
| XVIII | 176 | Benz[a]anthracene  | 56-55-3    | 0.050  |
| XVIII | 177 | Cadmium nitrate*   | 10325-94-7 | 0.005  |
| XVIII | 178 | Cadmium carbonate*   | 513-78-0   | 0.005  |
| XVIII | 179 | Cadmium hydroxide*   | 21041-95-2 | 0.005  |
| XVIII | 180 | Chrysene   | 218-01-9   | 0.050  |
| 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]                               | -          | 0.050  |
| XIX   | 182 | Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)   | 552-30-7   | 0.050  |
| XIX   | 183 | Benzo[ghi]perylene   | 191-24-2   | 0.050  |
| XIX   | 184 | Decamethylcyclopentasiloxane (D5)  | 541-02-6   | 0.050  |
| XIX   | 185 | Dicyclohexyl phthalate (DCHP)  | 84-61-7    | 0.050  |
| XIX   | 186 | Disodium octaborate*   | 12008-41-2 | 0.005  |
| XIX   | 187 | Dodecamethylcyclohexasiloxane (D6)   | 540-97-6   | 0.050  |



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### Appendix

#### Full list of tested SVHC:

| Batch | No. | Substance Name   | CAS No.     | RL (%) |
|-------|-----|--|-------------|--------|
| XIX   | 188 | Ethylenediamine  | 107-15-3    | 0.050  |
| XIX   | 189 | Lead   | 7439-92-1   | 0.005  |
| XIX   | 190 | Octamethylcyclotetrasiloxane (D4)  | 556-67-2    | 0.050  |
| XIX   | 191 | Terphenyl hydrogenated   | 61788-32-7  | 0.050  |
| XX    | 192 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)  | 15087-24-8  | 0.050  |
| XX    | 193 | 2,2-bis(4'-hydroxyphenyl)-4- methylpentane   | 6807-17-6   | 0.050  |
| XX    | 194 | Benzo[k]fluoranthene   | 207-08-9    | 0.050  |
| XX    | 195 | Fluoranthene   | 206-44-0    | 0.050  |
| XX    | 196 | Phenanthrene   | 85-01-8     | 0.050  |
| XX    | 197 | Pyrene   | 129-00-0    | 0.050  |
| XXI   | 198 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) | -           | 0.050  |
| XXI   | 199 | 2-methoxyethyl acetate   | 110-49-6    | 0.050  |
| XXI   | 200 | 4-tert-butylphenol (PTBP)  | 98-54-4     | 0.050  |
| XXI   | 201 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)                                 | -           | 0.050  |
| XXII  | 202 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone  | 119313-12-1 | 0.050  |
| XXII  | 203 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one   | 71868-10-5  | 0.050  |
| XXII  | 204 | Diisohexyl phthalate   | 71850-09-4  | 0.050  |
| XXII  | 205 | Perfluorobutane sulfonic acid (PFBS) and its salts   | -           | 0.050  |





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### Appendix

#### Full list of tested SVHC:

| Batch | No. | Substance Name   | CAS No.    | RL (%) |
|-------|-----|--|------------|--------|
| XXIII | 206 | 1-vinylimidazole   | 1072-63-5  | 0.050  |
| XXIII | 207 | 2-methylimidazole  | 693-98-1   | 0.050  |
| XXIII | 208 | Butyl 4-hydroxybenzoate  | 94-26-8    | 0.050  |
| XXIII | 209 | Dibutylbis(pentane-2,4-dionato-O,O')tin**  | 22673-19-4 | 0.050  |
| XXIV  | 210 | bis(2-(2-methoxyethoxy)ethyl) ether  | 143-24-8   | 0.050  |
| XXIV  | 211 | Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety** | -          | 0.050  |
| XXV   | 212 | 1,4-dioxane  | 123-91-1   | 0.050  |
| XXV   | 213 | 2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)                                  | -          | 0.050  |
| XXV   | 214 | 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers   | -          | 0.050  |
| XXV   | 215 | 4,4'-(1-methylpropylidene)bisphenol (bisphenol B)  | 77-40-7    | 0.050  |
| XXV   | 216 | Glutaral   | 111-30-8   | 0.050  |
| XXV   | 217 | Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]                          | -          | 0.050  |
| XXV   | 218 | Orthoboric acid, sodium salt*  | 13840-56-7 | 0.005  |
| XXV   | 219 | Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)                          | -          | 0.050  |
| /     | 220 | Resorcinol   | 108-46-3   | 0.050  |



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### Appendix

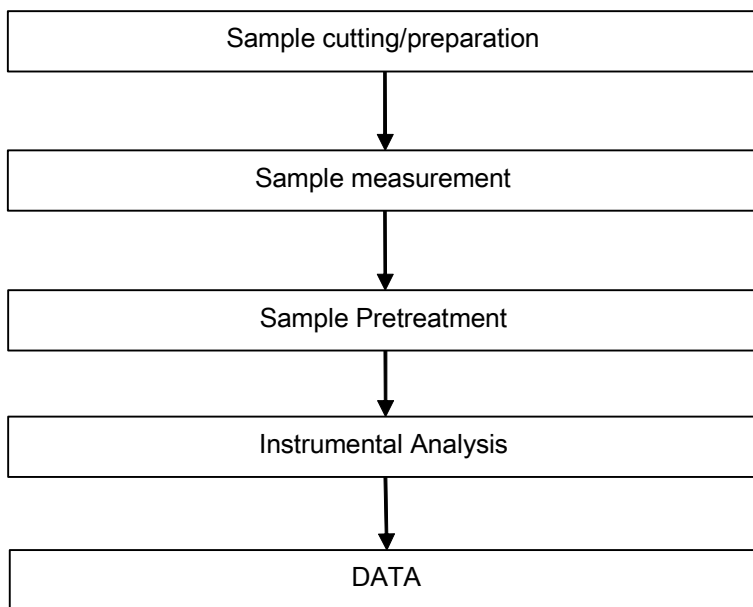
#### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.     | RL (%) |
|-------|-----|---|-------------|--------|
| /     | 221 | (±)-1,7,7-trimethyl-3-<br>[[4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one<br>covering any of the individual isomers and/or combinations<br>thereof (4-MBC)        | -           | 0.050  |
| /     | 222 | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)   | 119-47-1    | 0.050  |
| /     | 223 | S-(tricyclo[5.2.1.0 <sup>2,6</sup> ]deca-3-en-8(or 9)-yl) O-(isopropyl or<br>isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or<br>2-ethylhexyl) phosphorodithioate* | 255881-94-8 | 0.005  |
| /     | 224 | Tris(2-methoxyethoxy)vinylsilane  | 1067-53-4   | 0.050  |



ATTACHMENTS

SVHC Testing Flow Chart





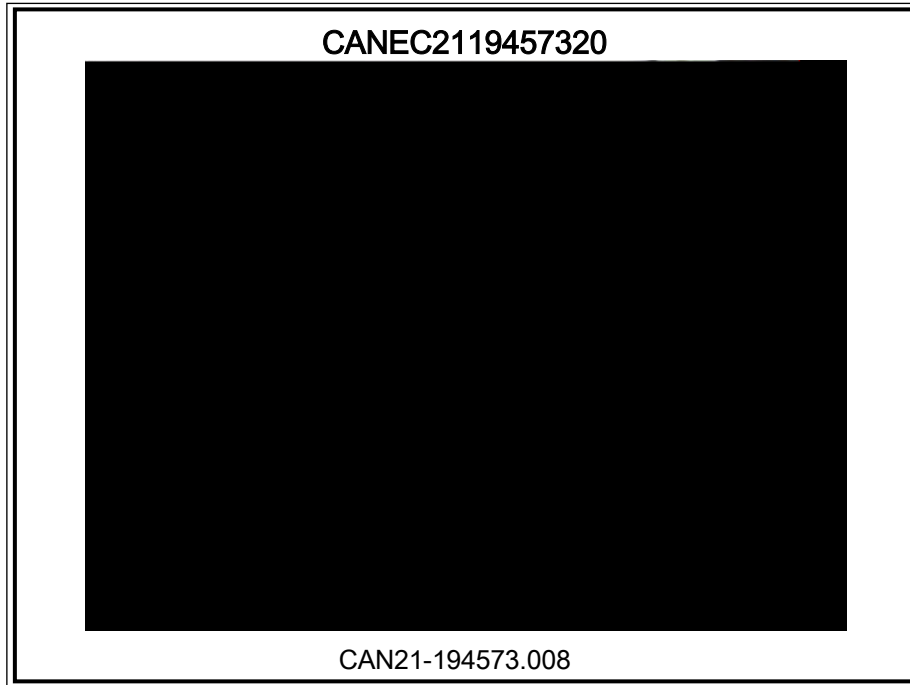
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Sample photo:



SGS authenticate the photo on original report only

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