

Test Report (SVHC)

No. SZXEC2201400503

Date: 23 May 2022

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Client Name : ZHEJIANG LIOWN SEMICONDUCTOR CO., LTD

Client Address : LIOWN SEMICONDUCTOR INDUSTRIAL PARK, XUANMEN INDUSTRIAL ZONE, LUPU TOWN, YUHUAN, ZHEJIANG PROVINCE

Sample Name : High Power Device
 Main Substance : Epoxy&Silicon&Cu& SnPb Alloy
 Country of Origin : china
 The above sample(s) and information were provided by the client.

SGS Job No. : RP22-010690 - SZ
 Date of Sample Received : 10 May 2022
 Testing Period : 10 May 2022 - 17 May 2022
 Test Requested :

As requested by client, SVHC screening is performed according to:
 (i) Two hundred and twenty-three (223) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 17, 2022 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) One (1) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Mar 4, 2022 regarding Regulation (EC) No 1907/2006 concerning the REACH.

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

Summary :

| | |
|--|--|
| <p>According to the specified scope and evaluation screening, the test results of SVHC are > 0.1% (w/w) in the submitted sample. See SGS Sample ID 002.</p> | <p>See remark 2 for obligation under REACH</p> |
|--|--|



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

Ford

Ford Shi
Approved Signatory

scan to see the report



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The test results of SVHC over limit in the submitted sample summary

| SGS Sample ID | Description | Substance Name | CAS No. | Concentration (%) |
|---------------|-----------------------------|----------------|-----------|-------------------|
| 002 | Blue body+silvery metal pin | Lead | 7439-92-1 | 5.940 |



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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 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.

Notification:

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).

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>

2.2 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.

2.3 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 its amendments, client is suggested to prepare a Safety

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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 | SZX22-014005.002 | Blue body+silvery metal pin |

Test Method :

SGS In-House method- SGS-CCL-SOP-019-21, SGS-CCL-SOP-019-22, SGS-CCL-SOP-057-01, 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 Concentration (%) | RL (%) |
|-------|---|------------|--------------------------|--------|
| VIII | Lead cyanamidate* | 20837-86-9 | NA^ | 0.005 |
| VIII | Lead dinitrate* | 10099-74-8 | NA^ | 0.005 |
| VIII | Lead monoxide* | 1317-36-8 | NA^ | 0.005 |
| VIII | Lead oxide sulfate* | 12036-76-9 | NA^ | 0.005 |
| VIII | Lead tetroxide (orange lead)* | 1314-41-6 | NA^ | 0.005 |
| VIII | Lead titanium trioxide* | 12060-00-3 | NA^ | 0.005 |
| VIII | Sulfurous acid, lead salt, dibasic* | 62229-08-7 | NA^ | 0.005 |
| VIII | Tetralead trioxide sulphate* | 12202-17-4 | NA^ | 0.005 |
| VIII | Trilead bis(carbonate)dihydroxide (basic lead carbonate)* | 1319-46-6 | NA^ | 0.005 |
| X | Lead di(acetate)* | 301-04-2 | NA^ | 0.005 |
| XIX | Lead | 7439-92-1 | 5.940 | 0.005 |
| - | Other tested SVHC in candidate list | - | ND | - |

Test Result: (Potential SVHC)

| Batch | Substance Name | CAS No. | 002 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, titanium, barium, cadmium), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
 6. § 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) \geq 0.1% (w/w).
 7. / = Potential SVHC
 8. 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.
 9. NA^ = Upon further test verification on the specific detected element(s) of SVHC and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be excluded entirely. It may be assumed that the detected element(s) have a non-SVHC source.
- Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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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 (α -HBCDD, β -HBCDD, γ -HBCDD) [△] | - | 0.050 |
| I | 13 | Lead hydrogen arsenate* | 7784-40-9 | 0.005 |
| I | 14 | Sodium dichromate* | 7789-12-0, 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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Full list of tested SVHC:

| 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, 1330-43-4, 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, Oligomers of chromic acid and dichromic acid, Dichromic acid* | - | 0.005 |



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Full list of tested SVHC:

| 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, 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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Full list of tested SVHC:

| 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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Full list of tested SVHC:

| 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 (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) | 2451-62-9 | 0.050 |
| VII | 83 | α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) § | 6786-83-0 | 0.050 |
| VII | 84 | 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 | 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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Full list of tested SVHC:

| 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, cis-cyclohexane-1,2-dicarboxylic anhydride, 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, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, 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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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 | 0.050 |
| XII | 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 3846-71-7 | 0.050 |
| XII | 158 | 2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE | 15571-58-1 | 0.050 |
| XII | 159 | Cadmium fluoride* | 7790-79-6 | 0.005 |
| XII | 160 | Cadmium sulphate* | 10124-36-4, 31119-53-6 | 0.005 |
| XII | 161 | Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE) | - | 0.050 |
| XIII | 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 | - | 0.050 |
| XIII | 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] | - | 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-ic-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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Test Report (SVHC)

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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) (TMA) | 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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Full list of tested SVHC:

| Batch | No. | Substance Name | CAS No. | RL (%) |
|-------|-----|--|-------------|--------|
| XIX | 188 | Ethylenediamine (EDA) | 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 ≥ 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 |



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|-------|-----|--|-------------|--------|
| XXVI | 220 | (±)-1,7,7-trimethyl-3- [(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) | - | 0.050 |
| XXVI | 221 | 6,6'-di-tert-butyl-2,2'-methylenedi-p- cresol (DBMC) | 119-47-1 | 0.050 |
| XXVI | 222 | S-(tricyclo[5.2.1.0 ² .6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate | 255881-94-8 | 0.050 |
| XXVI | 223 | Tris(2-methoxyethoxy)vinylsilane | 1067-53-4 | 0.050 |
| / | 224 | Resorcinol | 108-46-3 | 0.050 |
| / | 225 | N-(hydroxymethyl)acrylamide | 924-42-5 | 0.050 |



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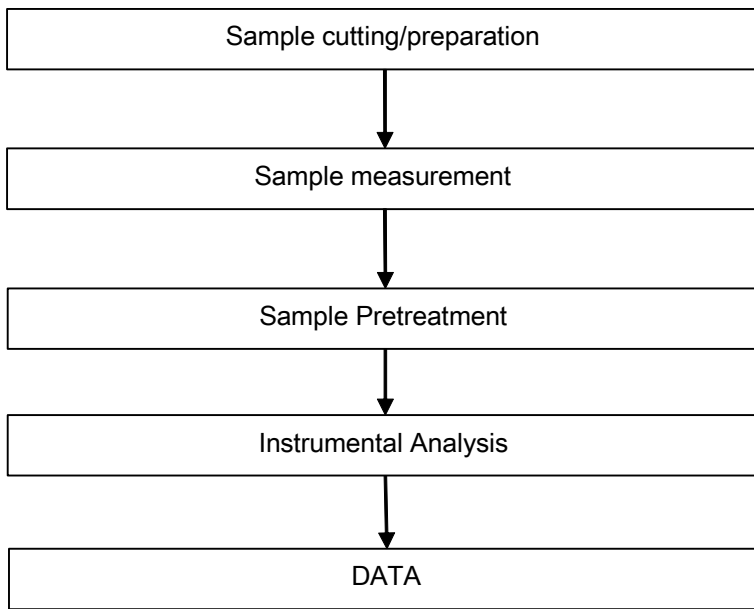
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SVHC Testing Flow Chart



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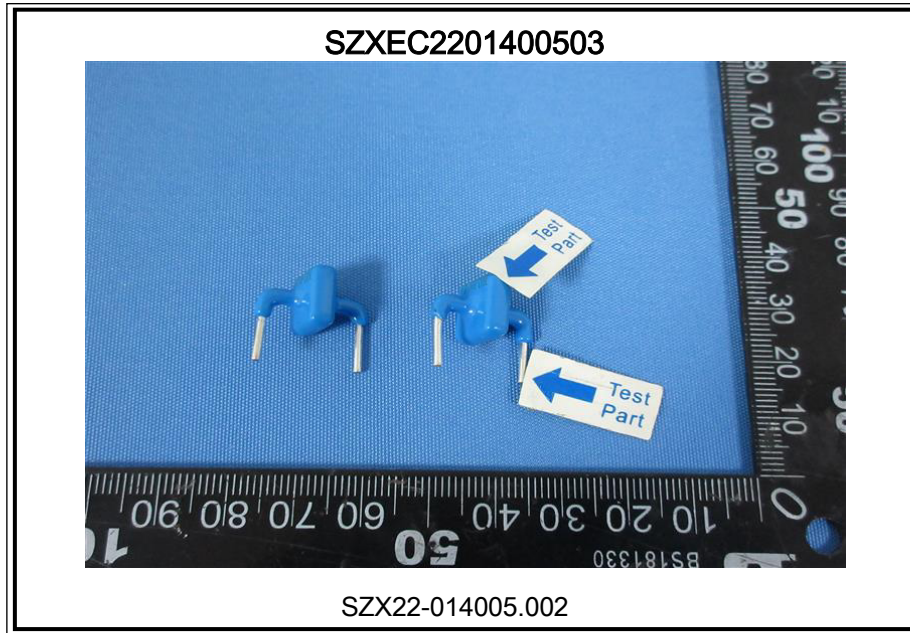
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