

## Test Report (SVHC)

No. SHAEC1307262827

Date: 13 May 2013

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SHANGHAI BAOSHAN IRON&STEEL CO.,LTD  
NO.1800 TONGJI ROAD, BAOSHAN, SHANGHAI, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : CONTINUOUSLY  
HOT-DIP ALUMINUM-ZINC ALLOY COATED STEEL SHEET&STRIP,OILING

SGS Job No. : SP13-011722 - SH

Date of Sample Received : 26 Apr 2013

Testing Period : 26 Apr 2013 - 09 May 2013

Test Requested : As requested by client, SVHC screening is performed according to:  
(i) Some substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Dec 19, 2012 regarding Regulation (EC) No 1907/2006 concerning the REACH.

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

Summary :

|   |
|---|
| According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample. |
|---|

|      |
|------|
| PASS |
|------|

Signed for and on behalf of  
SGS-CSTC Ltd.



JJ Fan  
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 interpretation of ECHA for SVHC in article unless indicated otherwise. Detail explanation is available at the following link:

[http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS\\_SVHC-paper-EN-11.pdf](http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf)

- (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)

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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 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              |
|--------------|------------------|--------------------------|
| 1            | SHA13-072628.025 | Grey-silvery metal board |

### Test Method :

SGS In-House method-SHTC-CHEM-SOP-97-T, analyzed by ICP-OES, UV-VIS.

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

| NO. | Substance Name   | CAS No.                                | EC No.                 | 025 Concentration (%) | RL (%) |
|-----|--|--|------------------------|-----------------------|--------|
| 1   | Aluminosilicate Refractory Ceramic Fibres<br>*▲                                | 650-017-00-8<br>(Index no.)            | -                      | ND                    | 0.005  |
| 2   | Ammonium dichromate*   | 7789-09-5                              | 232-143-1              | ND                    | 0.005  |
| 3   | Arsenic acid*  | 7778-39-4                              | 231-901-9              | ND                    | 0.005  |
| 4   | Boric acid*  | 10043-35-3,<br>11113-50-1              | 233-139-2<br>234-343-4 | ND                    | 0.005  |
| 5   | Calcium arsenate*  | 7778-44-1                              | 231-904-5              | ND                    | 0.005  |
| 6   | Chromic acid, Dichromic acid, Oligomers<br>of chromic acid and dichromic acid* | 7738-94-5,<br>13530-68-2               | 231-801-5<br>236-881-5 | ND                    | 0.005  |
| 7   | Chromium trioxide*   | 1333-82-0                              | 215-607-8              | ND                    | 0.005  |
| 8   | Cobalt carbonate*  | 513-79-1                               | 208-169-4              | ND                    | 0.005  |
| 9   | Cobalt dichloride*   | 7646-79-9                              | 231-589-4              | ND                    | 0.005  |
| 10  | Cobalt dinitrate*  | 10141-05-6                             | 233-402-1              | ND                    | 0.005  |
| 11  | Cobalt sulphate*   | 10124-43-3                             | 233-334-2              | ND                    | 0.005  |
| 12  | Diarsenic pentaoxide*  | 1303-28-2                              | 215-116-9              | ND                    | 0.005  |
| 13  | Diarsenic trioxide*  | 1327-53-3                              | 215-481-4              | ND                    | 0.005  |
| 14  | Diboron trioxide*  | 1303-86-2                              | 215-125-8              | ND                    | 0.005  |
| 15  | Dichromium tris(chromate) *  | 24613-89-6                             | 246-356-2              | ND                    | 0.005  |
| 16  | Disodium tetraborate, anhydrous*   | 1303-96-4,<br>1330-43-4,<br>12179-04-3 | 215-540-4              | ND                    | 0.005  |
| 17  | Lead bis(tetrafluoroborate)*   | 13814-96-5                             | 237-486-0              | ND                    | 0.005  |
| 18  | Lead chromate*   | 7758-97-6                              | 231-846-0              | ND                    | 0.005  |

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| NO. | Substance Name   | CAS No.    | EC No.    | 025 Concentration (%) | RL (%) |
|-----|--|------------|-----------|-----------------------|--------|
| 19  | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)* | 12656-85-8 | 235-759-9 | ND                    | 0.005  |
| 20  | Lead cyanamidate*  | 20837-86-9 | 244-073-9 | ND                    | 0.005  |
| 21  | Lead diazide, Lead azide*                                    | 13424-46-9 | 236-542-1 | ND                    | 0.005  |
| 22  | Lead dinitrate*  | 10099-74-8 | 233-245-9 | ND                    | 0.005  |
| 23  | Lead hydrogen arsenate*                                      | 7784-40-9  | 232-064-2 | ND                    | 0.005  |
| 24  | Lead monoxide*   | 1317-36-8  | 215-267-0 | ND                    | 0.005  |
| 25  | Lead oxide sulfate*  | 12036-76-9 | 234-853-7 | ND                    | 0.005  |
| 26  | Lead sulfochromate yellow (C.I. Pigment Yellow 34)*          | 1344-37-2  | 215-693-7 | ND                    | 0.005  |
| 27  | Lead tetroxide (orange lead)*                                | 1314-41-6  | 215-235-6 | ND                    | 0.005  |
| 28  | Lead titanium trioxide*                                      | 12060-00-3 | 235-038-9 | ND                    | 0.005  |
| 29  | Lead titanium zirconium oxide*                               | 12626-81-2 | 235-727-4 | ND                    | 0.005  |
| 30  | Pentalead tetraoxide sulphate*                               | 12065-90-6 | 235-067-7 | ND                    | 0.005  |
| 31  | Pentazinc chromate octahydroxide*                            | 49663-84-5 | 256-418-0 | ND                    | 0.005  |
| 32  | Potassium chromate*  | 7789-00-6  | 232-140-5 | ND                    | 0.005  |
| 33  | Potassium dichromate*  | 7778-50-9  | 231-906-6 | ND                    | 0.005  |
| 34  | Potassium hydroxyoctaoxidizincatedichromate*                 | 11103-86-9 | 234-329-8 | ND                    | 0.005  |
| 35  | Pyrochlore, antimony lead yellow*                            | 8012-00-8  | 232-382-1 | ND                    | 0.005  |
| 36  | Silicic acid, barium salt, lead-doped*                       | 68784-75-8 | 272-271-5 | ND                    | 0.005  |
| 37  | Silicic acid, lead salt*                                     | 11120-22-2 | 234-363-3 | ND                    | 0.005  |
| 38  | Sodium chromate*   | 7775-11-3  | 231-889-5 | ND                    | 0.005  |

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| NO. | Substance Name  | CAS No.                     | EC No.    | 025 Concentration (%) | RL (%) |
|-----|---|-----------------------------|-----------|-----------------------|--------|
| 39  | Sodium dichromate*  | 7789-12-0<br>10588-01-9     | 234-190-3 | ND                    | 0.005  |
| 40  | Strontium chromate*                                       | 7789-06-2                   | 232-142-6 | ND                    | 0.005  |
| 41  | Sulfurous acid, lead salt, dibasic*                       | 62229-08-7                  | 263-467-1 | ND                    | 0.005  |
| 42  | Tetraboron disodium heptaoxide, hydrate*                  | 12267-73-1                  | 235-541-3 | ND                    | 0.005  |
| 43  | Tetralead trioxide sulphate*                              | 12202-17-4                  | 235-380-9 | ND                    | 0.005  |
| 44  | Trilead bis(carbonate)dihydroxide (basic lead carbonate)* | 1319-46-6                   | 215-290-6 | ND                    | 0.005  |
| 45  | Trilead diarsenate*                                       | 3687-31-8                   | 222-979-5 | ND                    | 0.005  |
| 46  | Trilead dioxide phosphonate*                              | 12141-20-7                  | 235-252-2 | ND                    | 0.005  |
| 47  | Zirconia Aluminosilicate Refractory Ceramic Fibres*▲      | 650-017-00-8<br>(Index no.) | -         | ND                    | 0.005  |

Notes :

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- (1) RL = Reporting Limit. All RL are based on homogenous material  
 ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (2)  $\Delta$ CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8  
 $\star$ 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.
- (3) \* The test result is based on the calculation of selected element(s) / 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)  
 Calculated concentration of boric compounds are based on the water extractive boron and sodium by ICP-OES.  
 RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium (VI), silicon, aluminum, zirconium, potassium, strontium, zinc, calcium antimony, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025 % (only for Lead bis (tetrafluoroborate)).
- (4)  $\S$  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).
- (5)  $\blacktriangle$  On Jun 18, 2012, ECHA consolidated two entries of aluminosilicate refractory ceramic fibres and two of zirconia aluminosilicate refractory ceramic fibres in the Candidate List of SVHC for authorization published in Jan 2010 and Dec 2011 into one entry for aluminosilicate refractory ceramic fibres and one for zirconia aluminosilicate refractory ceramic fibres.
- (6) As the assessment in SHAEC1305064709, for specific material type (untreated glass, ceramic and metal), the presence of below organic SVHC is almost unlikely.

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|--|-------------|-----------|
| [Phthalato(2-)]dioxotrilead*   | 69011-06-9  | 273-688-5 |
| [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) <sup>§</sup> | 2580-56-5   | 219-943-6 |
| [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) <sup>§</sup>                  | 548-62-9    | 208-953-6 |
| 1,2,3-trichloropropane   | 96-18-4     | 202-486-1 |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich   | 71888-89-6  | 276-158-1 |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters  | 68515-42-4  | 271-084-6 |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear   | 84777-06-0  | 284-032-2 |
| 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)  | 112-49-2    | 203-977-3 |
| 1,2-dichloroethane   | 107-06-2    | 203-458-1 |
| 1,2-Diethoxyethane   | 629-14-1    | 211-076-1 |
| 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)  | 110-71-4    | 203-794-9 |
| 1-Bromopropane   | 106-94-5    | 203-445-0 |
| 1-Methyl-2-pyrrolidone   | 872-50-4    | 212-828-1 |
| 2,2'-dichloro-4,4'-methylenedianiline  | 101-14-4    | 202-918-9 |
| 2-Methoxyaniline; o-Anisidine  | 90-04-0     | 201-963-1 |
| 2,4-Dinitrotoluene   | 121-14-2    | 204-450-0 |
| 2-Ethoxyethanol  | 110-80-5    | 203-804-1 |
| 2-Ethoxyethyl acetate  | 111-15-9    | 203-839-2 |
| 2-Methoxyethanol   | 109-86-4    | 203-713-7 |
| 3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine   | 143860-04-2 | 421-150-7 |
| 4-(1,1,3,3-tetramethylbutyl)phenol   | 140-66-9    | 205-426-2 |
| 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated  | -           | -         |
| 4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)  | 90-94-8     | 202-027-5 |
| 4,4'-bis(dimethylamino)-4'-(methylamino)trityl alcohol <sup>§</sup>  | 561-41-1    | 209-218-2 |
| 4,4'-Diaminodiphenylmethane(MDA)   | 101-77-9    | 202-974-4 |
| 4,4'-Methylenedi- <i>o</i> -toluidine  | 838-88-0    | 212-658-8 |
| 4,4'-Oxydianiline and its salts  | 101-80-4    | 202-977-0 |
| 4-Aminoazobenzene  | 1960-9-3    | 200-453-6 |
| 4-Methyl- <i>m</i> -phenylenediamine   | 95-80-7     | 202-453-1 |
| 4-Nonylphenol, branched and linear   | -           | -         |
| 5- <i>tert</i> -butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)   | 81-15-2     | 201-329-4 |
| 6-Methoxy- <i>m</i> -toluidine   | 120-71-8    | 204-419-1 |
| Acetic acid, lead salt, basic*   | 51404-69-4  | 257-175-3 |
| Acrylamide   | 1979-6-1    | 201-173-7 |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)  | 85535-84-8  | 287-476-5 |
| Anthracene   | 120-12-7    | 204-371-1 |

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|--|---------------------------------------|---------------------------------------|
| Anthracene oil*  | 90640-80-5                            | 292-602-7                             |
| Anthracene oil, anthracene paste*  | 90640-81-6                            | 292-603-2                             |
| Anthracene oil, anthracene paste, anthracene fraction*   | 91995-15-2                            | 295-275-9                             |
| Anthracene oil, anthracene paste, distn. Lights*   | 91995-17-4                            | 295-278-5                             |
| Anthracene oil, anthracene-low*  | 90640-82-7                            | 292-604-8                             |
| Benzyl butyl phthalate (BBP)   | 85-68-7                               | 201-622-7                             |
| Biphenyl-4-ylamine   | 92-67-1                               | 202-177-1                             |
| Bis(2-ethylhexyl)phthalate (DEHP)  | 117-81-7                              | 204-211-0                             |
| Bis(2-methoxyethyl) ether  | 111-96-6                              | 203-924-4                             |
| Bis(2-methoxyethyl) phthalate  | 117-82-8                              | 204-212-6                             |
| Bis(pentabromophenyl) ether (DecaBDE)  | 1163-19-5                             | 214-604-9                             |
| Bis(tributyltin)oxide (TBTO)   | 56-35-9                               | 200-268-0                             |
| Cobalt(II) diacetate*  | 71-48-7                               | 200-755-8                             |
| Diazene-1,2-dicarboxamide<br>(C,C'-azodi(formamide))   | 123-77-3                              | 204-650-8                             |
| Dibutyltin dichloride (DBTC)   | 683-18-1                              | 211-670-0                             |
| Dibutyl phthalate (DBP)  | 84-74-2                               | 201-557-4                             |
| Diethyl sulphate   | 64-67-5                               | 200-589-6                             |
| Diisobutyl phthalate   | 84-69-5                               | 201-553-2                             |
| Diisopentylphthalate   | 605-50-5                              | 210-088-4                             |
| Dimethyl sulphate  | 77-78-1                               | 201-058-1                             |
| Dinoseb  | 88-85-7                               | 201-861-7                             |
| Dioxobis(stearato)trilead*   | 12578-12-0                            | 235-702-8                             |
| Fatty acids, C16-18, lead salts*   | 91031-62-8                            | 292-966-7                             |
| Formaldehyde, oligomeric reaction products with aniline  | 25214-70-4                            | 500-036-1                             |
| Formamide  | 1975-12-7                             | 200-842-0                             |
| Furan  | 110-00-9                              | 203-727-3                             |
| Henicosafuoroundecanoic acid   | 2058-94-8                             | 218-165-4                             |
| Heptacosafuorotetradecanoic acid   | 376-06-7                              | 206-803-4                             |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) $\Delta$                        | 25637-99-4,<br>3194-55-6              | 247-148-4,<br>221-695-9               |
| Cyclohexane-1,2-dicarboxylic anhydride,<br><i>cis</i> -cyclohexane-1,2-dicarboxylic anhydride,<br><i>trans</i> -cyclohexane-1,2-dicarboxylic anhydride       | 85-42-7,<br>13149-00-3,<br>14166-21-3 | 201-604-9,<br>236-086-3,<br>238-009-9 |
| Hexahydromethylphthalic anhydride,<br>Hexahydro-4-methylphthalic anhydride,<br>Hexahydro-1-methylphthalic anhydride,<br>Hexahydro-3-methylphthalic anhydride |                                       | ☆ ☆                                   |
| Hydrazine  | 7803-57-8,<br>302-01-2                | 206-114-9                             |
| Lead dipicrate*  | 6477-64-1                             | 229-335-2                             |
| Lead styphnate*  | 15245-44-0                            | 239-290-0                             |

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## Test Report (SVHC)

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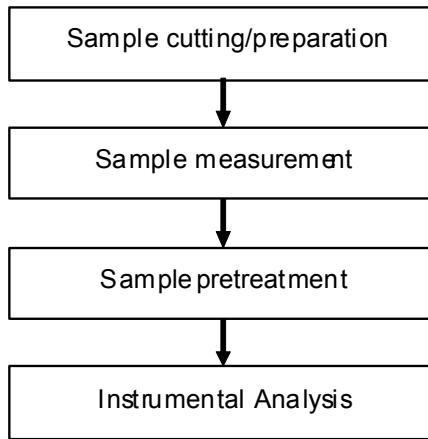
|  |             |           |
|--|-------------|-----------|
| Lead(II) bis(methanesulfonate)*  | 17570-76-2  | 401-750-5 |
| Methoxyacetic acid   | 625-45-6    | 210-894-6 |
| N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)                                 | 101-61-1    | 202-959-2 |
| N,N-dimethylacetamide  | 127-19-5    | 204-826-4 |
| N,N-dimethylformamide  | 1968-12-2   | 200-679-5 |
| N-Methylacetamide  | 79-16-3     | 201-182-6 |
| N-Pentyl-isopentylphthalate  | 776297-69-9 | -         |
| o-Aminoazotoluene  | 97-56-3     | 202-591-2 |
| o-Toluidine  | 95-53-4     | 202-429-0 |
| Pentacosfluorotridecanoic acid   | 72629-94-8  | 276-745-2 |
| Phenolphthalein  | 1977-9-8    | 201-004-7 |
| Pitch, coal tar, high temp.*   | 65996-93-2  | 266-028-2 |
| Methyloxirane (Propylene oxide)  | 75-56-9     | 200-879-2 |
| Tetraethyllead*  | 78-00-2     | 201-075-4 |
| TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)                       | 2451-62-9   | 219-514-3 |
| Trichloroethylene  | 1979-1-6    | 201-167-4 |
| Tricosfluorododecanoic acid  | 307-55-1    | 206-203-2 |
| Triethyl arsenate*   | 15606-95-8  | 427-700-2 |
| Tris(2-chloroethyl)phosphate   | 115-96-8    | 204-118-5 |
| α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) § | 6786-83-0   | 229-851-8 |
| β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)        | 59653-74-6  | 423-400-0 |

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**ATTACHMENTS**

**SVHC Testing Flow Chart**

- 1) Name of the person who made testing: Swallow Sun/ Calli Ma
- 2) Name of the person in charge of testing: Derek liao



Sample photo:



SGS authenticate the photo on original report only

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

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