

# Test Report

No. HKGEC1401289207

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SAMMAX GLOBAL ENTERPRISE LIMITED.  
ROOM 6, BLOCK F, 21/F, PHASE 2, SUPER LUCK INDUSTRIAL CENTRE.  
NO, 57 SHA TSUI ROAD, TSUEN WAN N.T.

The following sample was submitted and identified on behalf of the client as: 無鉛錫制品 LEAD FREE SOLDER

SGS Job No. : 2875465 – HK  
Color : 銀色 SILVER  
Date of Sample Received : 19 Dec 2014  
Testing Period : 19 Dec 2014 – 07 Jan 2015

Test Requested :

As requested by client, SVHC screening is performed according to:

- One hundred and sixty one (161) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before December 17, 2014 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Result(s) : 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 Hong Kong Ltd



Lam Ka Yung, Allen  
Chemist

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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> (Candidate list)

These lists are under evaluation by ECHA and may subject to change in the future.

2. 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.
3. 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)
4. If a SVHC is found over 0.1% (w/w), 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.
5. 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.

### Test Sample:

#### Sample Description:

| Group No. | Component No. | Component Description            |
|-----------|---------------|----------------------------------|
| A         | 1.            | Silvery Metal (HKG14-012892.002) |

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## Test Method:

SGS In-House method - Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD, HPLC-MS and colorimetric method

## Test Result (per test group): (Substances in the candidate list of SVHC)

| Substance Name   | CAS No./<br>EC No.   | RL(%) | Concentration (%) |
|--|--|-------|-------------------|
|  |  |       | <u>A</u>          |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Oct 28, 2008                         |  |       |                   |
| 4,4'-Diaminodiphenylmethane (MDA)  | 101-77-9/<br>202-974-4   | 0.050 | ND                |
| 5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)  | 81-15-2/<br>201-329-4  | 0.050 | ND                |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)  | 85535-84-8/<br>287-476-5   | 0.050 | ND                |
| Anthracene   | 120-12-7/<br>204-371-1   | 0.050 | ND                |
| Benzyl butyl phthalate (BBP)   | 85-68-7/<br>201-622-7  | 0.050 | ND                |
| Bis(2-ethylhexyl)phthalate (DEHP)  | 117-81-7/<br>204-211-0   | 0.050 | ND                |
| Bis(tributyltin)oxide (TBTO)   | 56-35-9/<br>200-268-0  | 0.050 | ND                |
| Cobalt dichloride*   | 7646-79-9/<br>231-589-4  | 0.005 | ND                |
| Diarsenic pentaoxide*  | 1303-28-2/<br>215-116-9  | 0.005 | ND                |
| Diarsenic trioxide*  | 1327-53-3/<br>215-481-4  | 0.005 | ND                |
| Dibutyl phthalate (DBP)  | 84-74-2/<br>201-557-4  | 0.050 | ND                |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | 25637-99-4/<br>247-148-4;<br>3194-55-6/<br>221-695-9;<br>(134237-50-6/-;<br>134237-51-7/-;<br>134237-52-8/-) | 0.050 | ND                |
| Lead hydrogen arsenate*  | 7784-40-9/<br>232-064-2  | 0.005 | ND                |
| Sodium dichromate*   | 7789-12-0<br>10588-01-9/<br>234-190-3  | 0.005 | ND                |

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|  |  |       |    |
|--|--|-------|----|
| Triethyl arsenate*   | 15606-95-8/<br>427-700-2                               | 0.005 | ND |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 13, 2010 |  |       |    |
| 2,4-Dinitrotoluene   | 121-14-2/<br>204-450-0                                 | 0.050 | ND |
| Anthracene oil*  | 90640-80-5/<br>292-602-7                               | 0.050 | ND |
| Anthracene oil, anthracene paste*  | 90640-81-6/<br>292-603-2                               | 0.050 | ND |
| Anthracene oil, anthracene paste,<br>anthracene fraction*  | 91995-15-2/<br>295-275-9                               | 0.050 | ND |
| Anthracene oil, anthracene paste;<br>distn. Lights*  | 91995-17-4/<br>295-278-5                               | 0.050 | ND |
| Anthracene oil, anthracene-low*  | 90640-82-7/<br>292-604-8                               | 0.050 | ND |
| Diisobutyl phthalate   | 84-69-5/<br>201-553-2                                  | 0.050 | ND |
| Lead chromate molybdate sulfate<br>red (C.I. Pigment Red 104)*                                       | 12656-85-8/<br>235-759-9                               | 0.005 | ND |
| Lead chromate*   | 7758-97-6/<br>231-846-0                                | 0.005 | ND |
| Lead sulfochromate yellow (C.I.<br>Pigment Yellow 34)*   | 1344-37-2/<br>215-693-7                                | 0.005 | ND |
| Pitch, coal tar, high temp.*   | 65996-93-2/<br>266-028-2                               | 0.050 | ND |
| Tris(2-chloroethyl)phosphate   | 115-96-8/<br>204-118-5                                 | 0.050 | ND |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Mar 30, 2010 |  |       |    |
| Acrylamide   | 79-06-1/<br>201-173-7                                  | 0.050 | ND |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2010 |  |       |    |
| Ammonium dichromate*   | 7789-09-5/<br>232-143-1                                | 0.005 | ND |
| Boric acid*  | 10043-35-3/ 233-<br>139-2;<br>11113-50-1/<br>234-343-4 | 0.005 | ND |
| Disodium tetraborate, anhydrous*   | 1303-96-4<br>1330-43-4<br>12179-04-3/<br>215-540-4     | 0.005 | ND |

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|--|--|-------|----|
| Potassium chromate*  | 7789-00-6/<br>232-140-5                                | 0.005 | ND |
| Potassium dichromate*  | 7778-50-9/<br>231-906-6                                | 0.005 | ND |
| Sodium chromate*   | 7775-11-3/<br>231-889-5                                | 0.005 | ND |
| Tetraboron disodium heptaoxide,<br>hydrate*  | 12267-73-1/<br>235-541-3                               | 0.005 | ND |
| Trichloroethylene  | 79-01-6/<br>201-167-4                                  | 0.050 | ND |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 15, 2010   |  |       |    |
| 2-Ethoxyethanol  | 110-80-5/<br>203-804-1                                 | 0.050 | ND |
| 2-Methoxyethanol   | 109-86-4/<br>203-713-7                                 | 0.050 | ND |
| Acids generated from chromium<br>trioxide and their oligomers:<br>Chromic acid<br>Dichromic acid<br>Oligomers of chromic acid and<br>dichromic acid* | 7738-94-5/ 231-<br>801-5;<br>13530-68-2/ 236-<br>881-5 | 0.005 | ND |
| Chromium trioxide*   | 1333-82-0/<br>215-607-8                                | 0.005 | ND |
| Cobalt(II) carbonate*  | 513-79-1/<br>208-169-4                                 | 0.005 | ND |
| Cobalt(II) diacetate*  | 71-48-7/<br>200-755-8                                  | 0.005 | ND |
| Cobalt(II) dinitrate*  | 10141-05-6/<br>233-402-1                               | 0.005 | ND |
| Cobalt(II) sulphate*   | 10124-43-3/<br>233-334-2                               | 0.005 | ND |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2011   |  |       |    |
| 1,2,3-Trichloropropane   | 96-18-4/<br>202-486-1                                  | 0.050 | ND |
| 1,2-Benzenedicarboxylic acid, di-<br>C6-8-branched alkyl esters, C7-rich   | 71888-89-6/<br>276-158-1                               | 0.050 | ND |
| 1,2-Benzenedicarboxylic acid, di-<br>C7-11-branched and linear alkyl<br>esters   | 68515-42-4/<br>271-084-6                               | 0.050 | ND |
| 1-Methyl-2-pyrrolidone   | 872-50-4/<br>212-828-1                                 | 0.050 | ND |

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|--|-------------------------------------|-------|----|
| 2-Ethoxyethyl acetate  | 111-15-9/<br>203-839-2              | 0.050 | ND |
| Hydrazine  | 7803-57-8<br>302-01-2/<br>206-114-9 | 0.050 | ND |
| Strontium chromate*  | 7789-06-2/<br>232-142-6             | 0.005 | ND |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2011 |                                     |       |    |
| 1,2-Dichloroethane   | 107-06-2/<br>203-458-1              | 0.050 | ND |
| 2,2'-dichloro-4,4'-methylenedianiline (MOCA)   | 101-14-4/<br>202-918-9              | 0.050 | ND |
| 2-Methoxyaniline   | 90-04-0/<br>201-963-1               | 0.050 | ND |
| 4-tert-Octylphenol   | 140-66-9/<br>205-426-2              | 0.050 | ND |
| Aluminosilicate Refractory Ceramic Fibres*   | 650-017-00-8<br>(Index no.)         | 0.005 | ND |
| Arsenic acid*  | 7778-39-4/<br>231-901-9             | 0.005 | ND |
| Bis(2-methoxyethyl) ether  | 111-96-6/<br>203-924-4              | 0.050 | ND |
| Bis(2-methoxyethyl) phthalate  | 117-82-8/<br>204-212-6              | 0.050 | ND |
| Calcium arsenate*  | 7778-44-1/<br>231-904-5             | 0.005 | ND |
| Dichromium tris(chromate)*   | 24613-89-6/<br>246-356-2            | 0.005 | ND |
| Formaldehyde, oligomeric reaction products with aniline (technical MDA)                              | 25214-70-4/<br>500-036-1            | 0.050 | ND |
| Lead diazide*  | 13424-46-9/<br>236-542-1            | 0.005 | ND |
| Lead dipicrate*  | 6477-64-1/<br>229-335-2             | 0.005 | ND |
| Lead styphnate*  | 15245-44-0/<br>239-290-0            | 0.005 | ND |
| N,N-dimethylacetamide (DMAC)   | 127-19-5/<br>204-826-4              | 0.050 | ND |
| Pentazinc chromate octahydroxide*  | 49663-84-5/<br>256-418-0            | 0.005 | ND |

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|--|-----------------------------|-------|----|
| Phenolphthalein  | 77-09-8/<br>201-004-7       | 0.050 | ND |
| Potassium<br>hydroxyoctaoxodizincatedichromate<br>*  | 11103-86-9/<br>234-329-8    | 0.005 | ND |
| Trilead diarsenate*  | 3687-31-8/<br>222-979-5     | 0.005 | ND |
| Zirconia Aluminosilicate Refractory<br>Ceremic Fibres*   | 650-017-00-8<br>(Index no.) | 0.005 | ND |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2012                                     |                             |       |    |
| [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/<br>219-943-6     | 0.050 | ND |
| [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)                  | 548-62-9/<br>208-953-6      | 0.050 | ND |
| 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)   | 112-49-2/<br>203-977-3      | 0.050 | ND |
| 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)  | 110-71-4/<br>203-794-9      | 0.050 | ND |
| 4,4'-bis(dimethylamino)benzophenone (Michler's Ketone)   | 90-94-8/<br>202-027-5       | 0.050 | ND |
| 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol  | 561-41-1/<br>209-218-2      | 0.050 | ND |
| Diboron trioxide*  | 1303-86-2/<br>215-125-8     | 0.005 | ND |
| Formamide  | 75-12-7/<br>200-842-0       | 0.050 | ND |
| Lead(II) bis(methanesulfonate)*  | 17570-76-2/<br>401-750-5    | 0.005 | ND |
| N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)   | 101-61-1/<br>202-959-2      | 0.050 | ND |
| TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)  | 2451-62-9/<br>219-514-3     | 0.050 | ND |
| α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)  | 6786-83-0/<br>229-851-8     | 0.050 | ND |

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|--|---------------------------|-------|----|
| 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/<br>423-400-0  | 0.050 | ND |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2012 |                           |       |    |
| [Phthalato(2-)]dioxotrilead*   | 69011-06-9/<br>273-688-5  | 0.005 | ND |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear                                     | 84777-06-0/<br>284-032-2  | 0.050 | ND |
| 1,2-Diethoxyethane   | 629-14-1/<br>211-076-1    | 0.050 | ND |
| 1-Bromopropane   | 106-94-5/<br>203-445-0    | 0.050 | ND |
| 3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine   | 143860-04-2/<br>421-150-7 | 0.050 | ND |
| 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated  | -                         | 0.050 | ND |
| 4,4'-Methylenedi- <i>o</i> -toluidine  | 838-88-0/<br>212-658-8    | 0.050 | ND |
| 4,4'-Oxydianiline  | 101-80-4/<br>202-977-0    | 0.050 | ND |
| 4-Aminoazobenzene  | 60-09-3/<br>200-453-6     | 0.050 | ND |
| 4-Methyl- <i>m</i> -phenylenediamine   | 95-80-7/<br>202-453-1     | 0.050 | ND |
| 4-Nonylphenol, branched and linear   | -                         | 0.050 | ND |
| 6-Methoxy- <i>m</i> -toluidine   | 120-71-8/<br>204-419-1    | 0.050 | ND |
| Acetic acid, lead salt, basic*   | 51404-69-4/<br>257-175-3  | 0.005 | ND |
| Biphenyl-4-ylamine   | 92-67-1/<br>202-177-1     | 0.050 | ND |
| Bis(pentabromophenyl) ether (DecaBDE)  | 1163-19-5/<br>214-604-9   | 0.050 | ND |
| C,C'-azodi(formamide) (ADCA)   | 123-77-3/<br>204-650-8    | 0.050 | ND |
| Dibutyltin dichloride (DBT)  | 683-18-1/<br>211-670-0    | 0.050 | ND |
| Diethyl sulphate   | 64-67-5/<br>200-589-6     | 0.050 | ND |
| Diisopentylphthalate (DIPP)  | 605-50-5/<br>210-088-4    | 0.050 | ND |

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|--|--|-------|-------|
| Dimethyl sulphate  | 77-78-1/<br>201-058-1  | 0.050 | ND    |
| Dinoseb  | 88-85-7/<br>201-861-7  | 0.050 | ND    |
| Dioxobis(stearato)trilead*   | 12578-12-0/<br>235-702-8   | 0.005 | ND    |
| Fatty acids, C16-18, lead salts*   | 91031-62-8/<br>292-966-7   | 0.005 | ND    |
| Furan  | 110-00-9/<br>203-727-3   | 0.050 | ND    |
| Henicosafuoroundecanoic acid   | 2058-94-8/<br>218-165-4  | 0.050 | ND    |
| Heptacosafuorotetradecanoic acid   | 376-06-7/<br>206-803-4   | 0.050 | ND    |
| Hexahydro-2-benzofuran-1,3-dione,<br>cis-cyclohexane-1,2-dicarboxylic<br>anhydride,<br>trans-cyclohexane-1,2-dicarboxylic<br>anhydride                                   | 85-42-7/<br>201-604-9;<br>13149-00-3/ 236-<br>086-3;<br>14166-21-3/ 238-<br>009-9                                  | 0.050 | ND    |
| Hexahydromethylphthalic<br>anhydride,<br>Hexahydro-4-methylphthalic<br>anhydride,<br>Hexahydro-1-methylphthalic<br>anhydride,<br>Hexahydro-3-methylphthalic<br>anhydride | 25550-51-0/ 247-<br>094-1;<br>19438-60-9/ 243-<br>072-0;<br>48122-14-1/<br>256-356-4;<br>57110-29-9/ 260-<br>566-1 | 0.050 | ND    |
| Lead bis(tetrafluoroborate)*   | 13814-96-5/<br>237-486-0   | 0.005 | ND    |
| Lead cyanamidate*  | 20837-86-9/<br>244-073-9   | 0.005 | 0.008 |
| Lead dinitrate*  | 10099-74-8/<br>233-245-9   | 0.005 | 0.010 |
| Lead monoxide*   | 1317-36-8/<br>215-267-0  | 0.005 | 0.007 |
| Lead oxide sulphate*   | 12036-76-9/<br>234-853-7   | 0.005 | 0.008 |
| Lead tetroxide*  | 1314-41-6/<br>215-235-6  | 0.005 | 0.007 |
| Lead titanium trioxide*  | 12060-00-3/<br>235-038-9   | 0.005 | ND    |

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|--|--------------------------|-------|-------|
| Lead titanium zirconium oxide*   | 12626-81-2/<br>235-727-4 | 0.005 | ND    |
| Methoxyacetic acid   | 625-45-6/<br>210-894-6   | 0.050 | ND    |
| N,N-Dimethylformamide  | 68-12-2/<br>200-679-5    | 0.050 | ND    |
| N-Methylacetamide  | 79-16-3/<br>201-182-6    | 0.050 | ND    |
| N-Pentyl-isopentylphthalate  | 776297-69-9<br>/-        | 0.050 | ND    |
| o-Aminoazotoluene  | 97-56-3/<br>202-591-2    | 0.050 | ND    |
| o-Toluidine  | 95-53-4/<br>202-429-0    | 0.050 | ND    |
| Pentacosafuorotridecanoic acid   | 72629-94-8/<br>276-745-2 | 0.050 | ND    |
| Pentalead tetraoxide sulphate*   | 12065-90-6/<br>235-067-7 | 0.005 | ND    |
| Propylene oxide  | 75-56-9/<br>200-879-2    | 0.050 | ND    |
| Pyrochlore, antimony lead yellow*  | 8012-00-8/<br>232-382-1  | 0.005 | ND    |
| Silicic acid, barium salt, lead-doped*   | 68784-75-8/<br>272-271-5 | 0.005 | ND    |
| Silicic acid, lead salt*   | 11120-22-2/<br>234-363-3 | 0.005 | ND    |
| Sulfurous acid, lead salt, dibasic*  | 62229-08-7/<br>263-467-1 | 0.005 | 0.008 |
| Tetraethyllead*  | 78-00-2/<br>201-075-4    | 0.005 | ND    |
| Tetralead trioxide sulphate*   | 12202-17-4/<br>235-380-9 | 0.005 | ND    |
| Tricosafuorododecanoic acid  | 307-55-1/<br>206-203-2   | 0.050 | ND    |
| Trilead bis(carbonate)dihydroxide*   | 1319-46-6/<br>215-290-6  | 0.005 | 0.008 |
| Trilead dioxide phosphonate*   | 12141-20-7/<br>235-252-2 | 0.005 | ND    |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2013 |                          |       |       |
| 4-Nonylphenol, branched and linear, ethoxylated  | -                        | 0.050 | ND    |

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|--|-----------------------------|-------|----|
| Ammoniumpentadecafluorooctanoate (APFO)  | 3825-26-1/<br>223-320-4     | 0.050 | ND |
| Cadmium  | 7440-43-9/<br>231-152-8     | 0.005 | ND |
| Cadmium oxide*   | 1306-19-0/<br>215-146-2     | 0.005 | ND |
| Di-n-pentyl phthalate  | 131-18-0/<br>205-017-9      | 0.050 | ND |
| Pentadecafluorooctanoic acid (PFOA)  | 335-67-1/<br>206-397-9      | 0.050 | ND |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013   |                             |       |    |
| Cadmium sulphide*  | 1306-23-6/<br>215-147-8     | 0.005 | ND |
| Dihexyl phthalate  | 84-75-3/<br>201-559-5       | 0.050 | ND |
| Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)   | 573-58-0/<br>209-358-4      | 0.050 | ND |
| 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/<br>217-710-3     | 0.050 | ND |
| Imidazolidine-2-thione;<br>2-imidazoline-2-thiol   | 96-45-7/<br>202-506-9       | 0.050 | ND |
| Lead di(acetate)*  | 301-04-2/<br>206-104-4      | 0.005 | ND |
| Trixylyl phosphate   | 25155-23-1/<br>246-677-8    | 0.050 | ND |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 16, 2014   |                             |       |    |
| 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 68515-50-4/<br>271-093-5    | 0.050 | ND |
| Cadmium chloride*  | 10108-64-2/<br>233-296-7    | 0.005 | ND |
| Sodium perborate; perboric acid, sodium salt*  | - / 234-390-0;<br>239-172-9 | 0.005 | ND |
| Sodium peroxometaborate*   | 7632-04-4/<br>231-556-4     | 0.005 | ND |

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| Substance Name   | CAS No./<br>EC No.                   | RL(%) | Concentration (%) |
|--|--------------------------------------|-------|-------------------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2014   |                                      |       |                   |
| 2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)   | 3846-71-7/ 223-346-6                 | 0.050 | ND                |
| 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1/ 247-384-8                | 0.050 | ND                |
| 2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE  | 15571-58-1/ 239-622-4                | 0.050 | ND                |
| Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | - / -                                | 0.050 | ND                |
| Cadmium fluoride*  | 7790-79-6/ 232-222-0                 | 0.005 | ND                |
| Cadmium sulphate*  | 10124-36-4;<br>31119-53-6/ 233-331-6 | 0.005 | ND                |

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### Notes:

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. \* 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:  
<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium (VI), silicon, aluminum, zirconium, zinc, antimony, calcium, titanium, barium, potassium, strontium and cadmium respectively), except molybdenum RL = 0.0005%, boron RL = 0.0025%.

3. The result is calculated based on the minimum sample weight for composite testing.

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Sample photo:



SGS authenticate the photo on original report only

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

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