

# Test Report

No. CTSSA/15170/15  
 CTS Ref. CTSSA/15/1998/CSC

Date: 11/09/2015

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**CSC STEEL SDN BHD**  
 180, KAWASAN INDUSTRI AYER KEROH, AYER KEROH  
 75450 MELAKA, MALAYSIA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Pickled & Oiled Steel  
 Sample Receiving Date : 21/08/2015  
 Testing Period : 21/08/2015 to 11/09/2015

Test Requested : As requested by client, SVHC screening is performed according to: One hundred and sixty three (163) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before June 15, 2015 regarding Regulation (EC) No 1907/2006 concerning the REACH

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

Summary :

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

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**Remark :**

- 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.
- 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.
- 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)
- 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.
- 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:

| No. | Part Name             | Component description<br>(colour / material) | Test Group |
|-----|-----------------------|--|------------|
| 1.  | Pickled & Oiled Steel | Silver Metal                                 | a          |

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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):**

| No. | Substance Name | CAS No. / EC No. | Concentration (%) |
|-----|----------------|------------------|-------------------|
| -   | 163 SVHC       | -                | ND                |

**Notes :**

- RL = Reporting Limit. All RL are based on homogenous material  
 ND = Not detected (lower than RL), ND is denoted on the SVHC substance.  
 NA^ = The submitted sample was found to contain significant amount of specific element(s) of SVHC. Upon further test verification 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 exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.
- \* 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%.
- 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.
- The result is calculated based on the minimum sample weight for composite testing.

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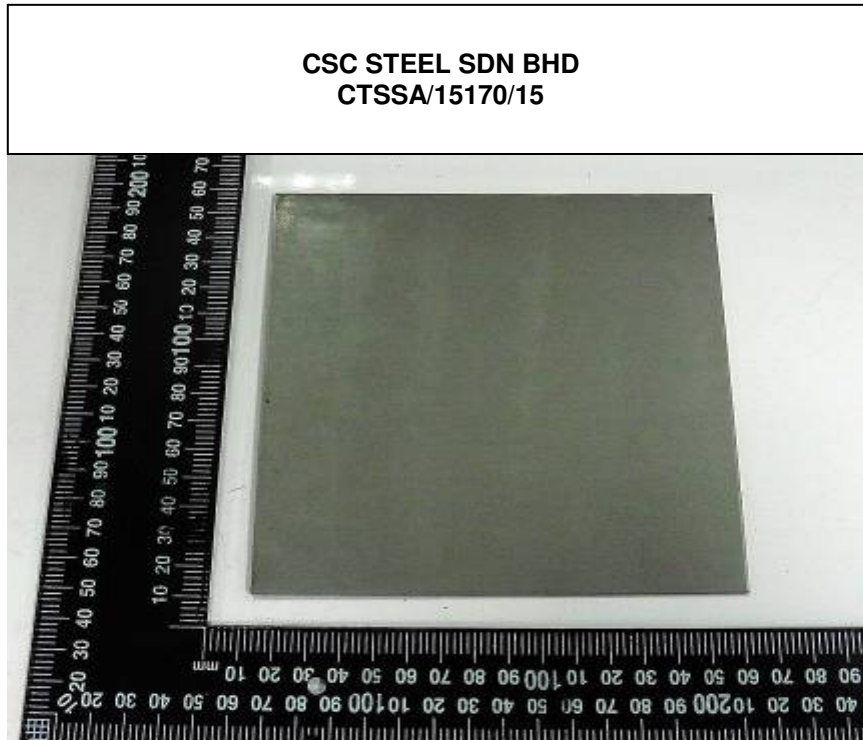
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Sample Photo:



SGS authenticate the photo on the original report only

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**Appendix**

| No.  | Substance Name  | CAS No./<br>EC No.       | RL (%) | No. | Substance Name   | CAS No./<br>EC No.   | RL (%) |
|--|---|--------------------------|--------|-----|--|--|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Oct 28, 2008 |   |                          |        |     |  |  |        |
| 1  | 4,4'-Diaminodiphenylmethane (MDA)                           | 101-77-9/<br>202-974-4   | 0.050  | 2   | 5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)  | 81-15-2/<br>201-329-4  | 0.050  |
| 3  | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8/<br>287-476-5 | 0.050  | 4   | Anthracene   | 120-12-7/<br>204-371-1   | 0.050  |
| 5  | Benzyl butyl phthalate (BBP)                                | 85-68-7/<br>201-622-7    | 0.050  | 6   | Bis(2-ethylhexyl)phthalate (DEHP)  | 117-81-7/<br>204-211-0   | 0.050  |
| 7  | Bis(tributyltin)oxide (TBTO)                                | 56-35-9/<br>200-268-0    | 0.050  | 8   | Cobalt dichloride*   | 7646-79-9/<br>231-589-4  | 0.005  |
| 9  | Diarsenic pentaoxide*                                       | 1303-28-2/<br>215-116-9  | 0.005  | 10  | Diarsenic trioxide*  | 1327-53-3/<br>215-481-4  | 0.005  |
| 11   | Dibutyl phthalate (DBP)                                     | 84-74-2/<br>201-557-4    | 0.050  | 12  | 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  |
| 13   | Lead hydrogen arsenate*                                     | 7784-40-9/<br>232-064-2  | 0.005  | 14  | Sodium dichromate*   | 7789-12-0/<br>10588-01-9/<br>234-190-3   | 0.005  |
| 15   | Triethyl arsenate*  | 15606-95-8/<br>427-700-2 | 0.005  |     |  |  |        |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 13, 2010 |   |                          |        |     |  |  |        |
| 16   | 2,4-Dinitrotoluene  | 121-14-2/<br>204-450-0   | 0.050  | 17  | Anthracene oil*  | 90640-80-5/<br>292-602-7   | 0.050  |
| 18   | Anthracene oil, anthracene paste*                           | 90640-81-6/<br>292-603-2 | 0.050  | 19  | Anthracene oil, anthracene paste, anthracene fraction*   | 91995-15-2/<br>295-275-9   | 0.050  |
| 20   | Anthracene oil, anthracene paste; distn. Lights*            | 91995-17-4/<br>295-278-5 | 0.050  | 21  | Anthracene oil, anthracene-low*  | 90640-82-7/<br>292-604-8   | 0.050  |
| 22   | Diisobutyl phthalate  | 84-69-5/<br>201-553-2    | 0.050  | 23  | Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*  | 12656-85-8/<br>235-759-9   | 0.005  |
| 24   | Lead chromate*  | 7758-97-6/<br>231-846-0  | 0.005  | 25  | Lead sulfochromate yellow (C.I. Pigment Yellow 34)*  | 1344-37-2/<br>215-693-7  | 0.005  |
| 26   | Pitch, coal tar, high temp.*                                | 65996-93-2/<br>266-028-2 | 0.050  | 27  | Tris(2-chloroethyl)phosphate   | 115-96-8/<br>204-118-5   | 0.050  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Mar 30, 2010 |   |                          |        |     |  |  |        |
| 28   | Acrylamide  | 79-06-1/<br>201-173-7    | 0.050  |     |  |  |        |

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| No.  | Substance Name   | CAS No./<br>EC No.                                 | RL (%) | No. | Substance Name   | CAS No./<br>EC No.                                 | RL (%) |
|--|--|--|--------|-----|--|--|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2010 |  |  |        |     |  |  |        |
| 29   | Ammonium dichromate*   | 7789-09-5/<br>232-143-1                            | 0.005  | 30  | Boric acid*  | 10043-35-3/ 233-139-2;<br>11113-50-1/<br>234-343-4 | 0.005  |
| 31   | Disodium tetraborate, anhydrous*   | 1303-96-4<br>1330-43-4<br>12179-04-3/<br>215-540-4 | 0.005  | 32  | Potassium chromate*  | 7789-00-6/<br>232-140-5                            | 0.005  |
| 33   | Potassium dichromate*  | 7778-50-9/<br>231-906-6                            | 0.005  | 34  | Sodium chromate*   | 7775-11-3/<br>231-889-5                            | 0.005  |
| 35   | Tetraboron disodium heptaoxide, hydrate*   | 12267-73-1/<br>235-541-3                           | 0.005  | 36  | Trichloroethylene  | 79-01-6/<br>201-167-4                              | 0.050  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 15, 2010 |  |  |        |     |  |  |        |
| 37   | 2-Ethoxyethanol  | 110-80-5/<br>203-804-1                             | 0.050  | 38  | 2-Methoxyethanol   | 109-86-4/<br>203-713-7                             | 0.050  |
| 39   | Acids generated from chromium trioxide and their oligomers:<br>Chromic acid<br>Dichromic acid<br>Oligomers of chromic acid and dichromic acid* | 7738-94-5/ 231-801-5;<br>13530-68-2/ 236-881-5     | 0.005  | 40  | Chromium trioxide*   | 1333-82-0/<br>215-607-8                            | 0.005  |
| 41   | Cobalt(II) carbonate*  | 513-79-1/<br>208-169-4                             | 0.005  | 42  | Cobalt(II) diacetate*  | 71-48-7/<br>200-755-8                              | 0.005  |
| 43   | Cobalt(II) dinitrate*  | 10141-05-6/<br>233-402-1                           | 0.005  | 44  | Cobalt(II) sulphate*   | 10124-43-3/<br>233-334-2                           | 0.005  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2011 |  |  |        |     |  |  |        |
| 45   | 1,2,3-Trichloropropane   | 96-18-4/<br>202-486-1                              | 0.050  | 46  | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich | 71888-89-6/<br>276-158-1                           | 0.050  |
| 47   | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters  | 68515-42-4/<br>271-084-6                           | 0.050  | 48  | 1-Methyl-2-pyrrolidone   | 872-50-4/<br>212-828-1                             | 0.050  |
| 49   | 2-Ethoxyethyl acetate  | 111-15-9/<br>203-839-2                             | 0.050  | 50  | Hydrazine  | 7803-57-8<br>302-01-2/<br>206-114-9                | 0.050  |
| 51   | Strontium chromate*  | 7789-06-2/<br>232-142-6                            | 0.005  |     |  |  |        |

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| No.  | Substance Name   | CAS No./<br>EC No.          | RL (%) | No. | Substance Name  | CAS No./<br>EC No.       | RL (%) |
|--|--|-----------------------------|--------|-----|---|--------------------------|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2011 |  |                             |        |     |   |                          |        |
| 52   | 1,2-Dichloroethane   | 107-06-2/<br>203-458-1      | 0.050  | 53  | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)  | 101-14-4/<br>202-918-9   | 0.050  |
| 54   | 2-Methoxyaniline   | 90-04-0/<br>201-963-1       | 0.050  | 55  | 4-tert-Octylphenol  | 140-66-9/<br>205-426-2   | 0.050  |
| 56   | Aluminosilicate Refractory Ceramic Fibres*   | 650-017-00-8<br>(Index no.) | 0.005  | 57  | Arsenic acid*   | 7778-39-4/<br>231-901-9  | 0.005  |
| 58   | Bis(2-methoxyethyl) ether  | 111-96-6/<br>203-924-4      | 0.050  | 59  | Bis(2-methoxyethyl) phthalate   | 117-82-8/<br>204-212-6   | 0.050  |
| 60   | Calcium arsenate*  | 7778-44-1/<br>231-904-5     | 0.005  | 61  | Dichromium tris(chromate)*  | 24613-89-6/<br>246-356-2 | 0.005  |
| 62   | Formaldehyde, oligomeric reaction products with aniline (technical MDA)  | 25214-70-4/<br>500-036-1    | 0.050  | 63  | Lead diazide*   | 13424-46-9/<br>236-542-1 | 0.005  |
| 64   | Lead dipicrate*  | 6477-64-1/<br>229-335-2     | 0.005  | 65  | Lead styphnate*   | 15245-44-0/<br>239-290-0 | 0.005  |
| 66   | N,N-dimethylacetamide (DMAC)   | 127-19-5/<br>204-826-4      | 0.050  | 67  | Pentazinc chromate octahydroxide*   | 49663-84-5/<br>256-418-0 | 0.005  |
| 68   | Phenolphthalein  | 77-09-8/<br>201-004-7       | 0.050  | 69  | Potassium hydroxyoctaoxodizincatedichromate*  | 11103-86-9/<br>234-329-8 | 0.005  |
| 70   | Trilead diarsenate*  | 3687-31-8/<br>222-979-5     | 0.005  | 71  | Zirconia Aluminosilicate Refractory Ceramic Fibres*   | 650-017-00-8 (Index no.) | 0.005  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2012 |  |                             |        |     |   |                          |        |
| 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/<br>219-943-6     | 0.050  | 73  | [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  |
| 74   | 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)   | 112-49-2/<br>203-977-3      | 0.050  | 75  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)   | 110-71-4/<br>203-794-9   | 0.050  |
| 76   | 4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)  | 90-94-8/<br>202-027-5       | 0.050  | 77  | 4,4'-bis(dimethylamino)-4'-(methylamino)trityl alcohol  | 561-41-1/<br>209-218-2   | 0.050  |
| 78   | Diboron trioxide*  | 1303-86-2/<br>215-125-8     | 0.005  | 79  | Formamide   | 75-12-7/<br>200-842-0    | 0.050  |
| 80   | Lead(II) bis(methanesulfonate)*  | 17570-76-2/<br>401-750-5    | 0.005  | 81  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)  | 101-61-1/<br>202-959-2   | 0.050  |
| 82   | 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  | 83  | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)                | 6786-83-0/<br>229-851-8  | 0.050  |
| 84   | $\beta$ -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  |     |   |                          |        |

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| No.  | Substance Name   | CAS No./<br>EC No.  | RL (%) | No. | Substance Name   | CAS No./<br>EC No.  | RL (%) |
|--|--|---|--------|-----|--|---|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2012 |  |   |        |     |  |   |        |
| 85   | [Phthalato(2-)]dioxotrilead*   | 69011-06-9/<br>273-688-5  | 0.005  | 86  | 1,2-Benzenedicarboxylic acid,<br>dipentylester, branched and linear  | 84777-06-0/<br>284-032-2  | 0.050  |
| 87   | 1,2-Diethoxyethane   | 629-14-1/<br>211-076-1  | 0.050  | 88  | 1-Bromopropane   | 106-94-5/<br>203-445-0  | 0.050  |
| 89   | 3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine   | 143860-04-2/<br>421-150-7   | 0.050  | 90  | 4-(1,1,3,3-tetramethylbutyl)phenol,<br>ethoxylated   | -   | 0.050  |
| 91   | 4,4'-Methylenedi- <i>o</i> -toluidine  | 838-88-0/<br>212-658-8  | 0.050  | 92  | 4,4'-Oxydianiline  | 101-80-4/<br>202-977-0  | 0.050  |
| 93   | 4-Aminoazobenzene  | 60-09-3/<br>200-453-6   | 0.050  | 94  | 4-Methyl- <i>m</i> -phenylenediamine   | 95-80-7/<br>202-453-1   | 0.050  |
| 95   | 4-Nonylphenol, branched and linear   | -   | 0.050  | 96  | 6-Methoxy- <i>m</i> -toluidine   | 120-71-8/<br>204-419-1  | 0.050  |
| 97   | Acetic acid, lead salt, basic*   | 51404-69-4/<br>257-175-3  | 0.005  | 98  | Biphenyl-4-ylamine   | 92-67-1/<br>202-177-1   | 0.050  |
| 99   | Bis(pentabromophenyl) ether (DecaBDE)  | 1163-19-5/<br>214-604-9   | 0.050  | 100 | C,C'-azodi(formamide) (ADCA)   | 123-77-3/<br>204-650-8  | 0.050  |
| 101  | Dibutyltin dichloride (DBT)  | 683-18-1/<br>211-670-0  | 0.050  | 102 | Diethyl sulphate   | 64-67-5/<br>200-589-6   | 0.050  |
| 103  | Diisopentylphthalate (DIPP)  | 605-50-5/<br>210-088-4  | 0.050  | 104 | Dimethyl sulphate  | 77-78-1/<br>201-058-1   | 0.050  |
| 105  | Dinoseb  | 88-85-7/<br>201-861-7   | 0.050  | 106 | Dioxobis(stearato)trilead*   | 12578-12-0/<br>235-702-8  | 0.005  |
| 107  | Fatty acids, C16-18, lead salts*   | 91031-62-8/<br>292-966-7  | 0.005  | 108 | Furan  | 110-00-9/<br>203-727-3  | 0.050  |
| 109  | Henicosafuoroundecanoic acid   | 2058-94-8/<br>218-165-4   | 0.050  | 110 | Heptacosafuorotetradecanoic acid   | 376-06-7/<br>206-803-4  | 0.050  |
| 111  | 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  | 112 | Hexahydromethylphthalic anhydride,<br>Hexahydro-4-methylphthalic anhydride,<br>Hexahydro-1-methylphthalic anhydride,<br>Hexahydro-3-methylphthalic anhydride | 25550-51-0/ 247-<br>094-1;<br>19438-60-9/ 243-<br>072-0;<br>48122-14-1/ 256-<br>356-4;<br>57110-29-9/ 260-<br>566-1 | 0.050  |
| 113  | Lead bis(tetrafluoroborate)*   | 13814-96-5/<br>237-486-0  | 0.005  | 114 | Lead cyanamidate*  | 20837-86-9/<br>244-073-9  | 0.005  |

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| No.   | Substance Name                                  | CAS No./<br>EC No.       | RL (%) | No. | Substance Name                          | CAS No./<br>EC No.       | RL (%) |
|---|---|--------------------------|--------|-----|---|--------------------------|--------|
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2012  |   |                          |        |     |   |                          |        |
| 115   | Lead dinitrate*                                 | 10099-74-8/<br>233-245-9 | 0.005  | 116 | Lead monoxide*                          | 1317-36-8/<br>215-267-0  | 0.005  |
| 117   | Lead oxide sulphate*                            | 12036-76-9/<br>234-853-7 | 0.005  | 118 | Lead tetroxide*                         | 1314-41-6/<br>215-235-6  | 0.005  |
| 119   | Lead titanium trioxide*                         | 12060-00-3/<br>235-038-9 | 0.005  | 120 | Lead titanium zirconium oxide*          | 12626-81-2/<br>235-727-4 | 0.005  |
| 121   | Methoxyacetic acid                              | 625-45-6/<br>210-894-6   | 0.050  | 122 | N,N-Dimethylformamide                   | 68-12-2/<br>200-679-5    | 0.050  |
| 123   | N-Methylacetamide                               | 79-16-3/<br>201-182-6    | 0.050  | 124 | N-Pentyl-isopentylphthalate             | 776297-69-9<br>/-        | 0.050  |
| 125   | o-Aminoazotoluene                               | 97-56-3/<br>202-591-2    | 0.050  | 126 | o-Toluidine                             | 95-53-4/<br>202-429-0    | 0.050  |
| 127   | Pentacosafuorotridecanoic acid                  | 72629-94-8/<br>276-745-2 | 0.050  | 128 | Pentalead tetraoxide sulphate*          | 12065-90-6/<br>235-067-7 | 0.005  |
| 129   | Propylene oxide                                 | 75-56-9/<br>200-879-2    | 0.050  | 130 | Pyrochlore, antimony lead yellow*       | 8012-00-8/<br>232-382-1  | 0.005  |
| 131   | Silicic acid, barium salt, lead-doped*          | 68784-75-8/<br>272-271-5 | 0.005  | 132 | Silicic acid, lead salt*                | 11120-22-2/<br>234-363-3 | 0.005  |
| 133   | Sulfurous acid, lead salt, dibasic*             | 62229-08-7/<br>263-467-1 | 0.005  | 134 | Tetraethyllead*                         | 78-00-2/<br>201-075-4    | 0.005  |
| 135   | Tetralead trioxide sulphate*                    | 12202-17-4/<br>235-380-9 | 0.005  | 136 | Tricosafuorododecanoic acid             | 307-55-1/<br>206-203-2   | 0.050  |
| 137   | Trilead bis(carbonate)dihydroxide*              | 1319-46-6/<br>215-290-6  | 0.005  | 138 | Trilead dioxide phosphonate*            | 12141-20-7/<br>235-252-2 | 0.005  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on June 20, 2013 |   |                          |        |     |   |                          |        |
| 139   | 4-Nonylphenol, branched and linear, ethoxylated | -                        | 0.050  | 140 | Ammoniumpentadecafluorooctanoate (APFO) | 3825-26-1/<br>223-320-4  | 0.050  |
| 141   | Cadmium   | 7440-43-9/<br>231-152-8  | 0.005  | 142 | Cadmium oxide*                          | 1306-19-0/<br>215-146-2  | 0.005  |
| 143   | Di-n-pentyl phthalate                           | 131-18-0/<br>205-017-9   | 0.050  | 144 | Pentadecafluorooctanoic acid (PFOA)     | 335-67-1/<br>206-397-9   | 0.050  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013  |   |                          |        |     |   |                          |        |
| 145   | Cadmium sulphide*                               | 1306-23-6/<br>215-147-8  | 0.005  | 146 | Dihexyl phthalate                       | 84-75-3/<br>201-559-5    | 0.050  |

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| No.   | Substance Name  | CAS No./<br>EC No.                                    | RL (%) | No. | Substance Name   | CAS No./<br>EC No.       | RL (%) |
|---|---|---|--------|-----|--|--------------------------|--------|
| 147   | 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  | 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/<br>217-710-3  | 0.050  |
| 149   | Imidazolidine-2-thione;<br>2-imidazoline-2-thiol  | 96-45-7/<br>202-506-9                                 | 0.050  | 150 | Lead di(acetate)*  | 301-04-2/<br>206-104-4   | 0.005  |
| 151   | Trixylyl phosphate  | 25155-23-1/ 246-677-8                                 | 0.050  |     |  |                          |        |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 16, 2014  |   |   |        |     |  |                          |        |
| 152   | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear  | 68515-50-4/<br>271-093-5                              | 0.050  | 153 | Cadmium chloride*  | 10108-64-2/<br>233-296-7 | 0.005  |
| 154   | Sodium perborate; perboric acid, sodium salt*   | - / 234-390-0<br>239-172-9                            | 0.005  | 155 | Sodium peroxometaborate*   | 7632-04-4/<br>231-556-4  | 0.005  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2014  |   |   |        |     |  |                          |        |
| 156   | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)  | 3846-71-7 / 223-346-6                                 | 0.050  | 157 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1 / 247-384-8   | 0.050  |
| 158   | 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  | 159 | 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  |
| 160   | Cadmium sulphate*   | 10124-36-4;<br>31119-53-6 / 233-331-6                 | 0.005  | 161 | Cadmium fluoride*  | 7790-79-6 / 232-222-0    | 0.005  |
| Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 15, 2015, |   |   |        |     |  |                          |        |
| 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 (EC No. 201-559-5) | 68515-51-5;<br>68648-93-1/<br>271-094-0;<br>272-013-1 | 0.050  | 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  |

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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.  
NA^ = The submitted sample was found to contain significant amount of specific element(s) of SVHC. Upon further test verification 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 exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.
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 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.
4. The result is calculated based on the minimum sample weight for composite testing.

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

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