

Test Report

No. HKGEC1101188903

Date : 05 Jan 2012 Page 1 of 7

SPEED GROUP HOLDINGS COMPANY LTD
FLAT 18, 4/F., BLK. B, HI-TECH INDUSTRIAL CENTRE
491 - 501 CASTLE PEAK ROAD
TSUEN WAN, N.T., HONG KONG

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

SGS Job No. : 1596486 – HK
Color : 銀色
Date of Sample Received : Dec 19 2011
Testing Period : Dec 19 2011 – Jan 05 2012

Test Requested :

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

- Selected items of Seventy-three (73) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before December 19, 2011 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 $\leq 0.1\%$ in the submitted sample. | PASS |
|---|------|

Signed for and on behalf of
SGS Hong Kong Ltd



Chow Fuk Fung
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

4. 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:

| Group No. | Component No. | Component Description |
|-----------|---------------|-----------------------|
| A | 1. | Silvery Metal |

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Test Method :

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

Test Result (per test group): (Substances in the candidate list of SVHC published on and before June 20, 2011)

| Substance Name | CAS No. | EC No. | Concentration (%) | RL(%) |
|--|------------------------------|-----------------------------|-------------------|-------|
| | | | <u>A</u> | |
| 1,2,3-Trichloropropane | 96-18-4 | 202-486-1 | ND | 0.050 |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | 276-158-1 | ND | 0.050 |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | 271-084-6 | ND | 0.050 |
| 1-Methyl-2-pyrrolidone | 872-50-4 | 212-828-1 | ND | 0.050 |
| 2,4-Dinitrotoluene | 121-14-2 | 204-450-0 | ND | 0.050 |
| 2-Ethoxyethanol | 110-80-5 | 203-804-1 | ND | 0.050 |
| 2-Ethoxyethyl acetate | 111-15-9 | 203-839-2 | ND | 0.050 |
| 2-Methoxyethanol | 109-86-4 | 203-713-7 | ND | 0.050 |
| 4,4'-Diaminodiphenylmethane (MDA) | 101-77-9 | 202-974-4 | ND | 0.050 |
| 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 81-15-2 | 201-329-4 | ND | 0.050 |
| Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid* | 7738-94-5 13530-68-2 - | 231-801-5 236-881-5 - | ND | 0.005 |
| Acrylamide | 79-06-1 | 201-173-7 | ND | 0.050 |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | 287-476-5 | ND | 0.050 |
| Aluminosilicate, Refractory Ceramic Fibres* | 650-017-00-8 (Index no.) | - | ND | 0.005 |
| Ammonium dichromate* | 7789-09-5 | 232-143-1 | ND | 0.005 |
| Anthracene | 120-12-7 | 204-371-1 | ND | 0.050 |
| Anthracene oil* | 90640-80-5 | 292-602-7 | ND | 0.050 |
| Anthracene oil, anthracene paste* | 90640-81-6 | 292-603-2 | ND | 0.050 |
| Anthracene oil, anthracene paste, | 91995-15-2 | 295-275-9 | ND | 0.050 |

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| | | | | |
|---|--------------------------------------|-------------------------|----|-------|
| anthracene fraction* | | | | |
| Anthracene oil, anthracene paste; distn. Lights* | 91995-17-4 | 295-278-5 | ND | 0.050 |
| Anthracene oil, anthracene-low* | 90640-82-7 | 292-604-8 | ND | 0.050 |
| Benzyl butyl phthalate (BBP) | 85-68-7 | 201-622-7 | ND | 0.050 |
| Bis(2-ethylhexyl)phthalate (DEHP) | 117-81-7 | 204-211-0 | ND | 0.050 |
| Bis(tributyltin)oxide (TBTO) | 56-35-9 | 200-268-0 | ND | 0.050 |
| Boric acid* | 10043-35-3; 11113-50-1 | 233-139-2; 234-343-4 | ND | 0.005 |
| Chromium trioxide* | 1333-82-0 | 215-607-8 | ND | 0.005 |
| Cobalt dichloride* | 7646-79-9 | 231-589-4 | ND | 0.005 |
| Cobalt(II) carbonate* | 513-79-1 | 208-169-4 | ND | 0.005 |
| Cobalt(II) diacetate* | 71-48-7 | 200-755-8 | ND | 0.005 |
| Cobalt(II) dinitrate* | 10141-05-6 | 233-402-1 | ND | 0.005 |
| Cobalt(II) sulphate* | 10124-43-3 | 233-334-2 | ND | 0.005 |
| Diarsenic pentaoxide* | 1303-28-2 | 215-116-9 | ND | 0.005 |
| Diarsenic trioxide* | 1327-53-3 | 215-481-4 | ND | 0.005 |
| Dibutyl phthalate (DBP) | 84-74-2 | 201-557-4 | ND | 0.050 |
| Diisobutyl phthalate | 84-69-5 | 201-553-2 | ND | 0.050 |
| Disodium tetraborate, anhydrous* | 1303-96-4 1330-43-4 12179-04-3 | 215-540-4 | ND | 0.005 |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) ^Δ | 25637-99-4 3194- 55-6 | 247-148-4 221-695-9 | ND | 0.050 |
| Hydrazine | 7803-57-8 302-01-2 | 206-114-9 | ND | 0.050 |
| Lead chromate* | 7758-97-6 | 231-846-0 | ND | 0.005 |
| Lead chromate molybdate sulfate red (C.I. Pigment Red 104)* | 12656-85-8 | 235-759-9 | ND | 0.005 |
| Lead hydrogen arsenate* | 7784-40-9 | 232-064-2 | ND | 0.005 |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34)* | 1344-37-2 | 215-693-7 | ND | 0.005 |
| Pitch, coal tar, high temp.* | 65996-93-2 | 266-028-2 | ND | 0.050 |
| Potassium chromate* | 7789-00-6 | 232-140-5 | ND | 0.005 |
| Potassium dichromate* | 7778-50-9 | 231-906-6 | ND | 0.005 |
| Sodium chromate* | 7775-11-3 | 231-889-5 | ND | 0.005 |
| Sodium dichromate* | 7789-12-0 10588-01-9 | 234-190-3 | ND | 0.005 |
| Strontium chromate* | 7789-06-2 | 232-142-6 | ND | 0.005 |
| Tetraboron disodium heptaoxide, hydrate* | 12267-73-1 | 235-541-3 | ND | 0.005 |

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| | | | | |
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| Trichloroethylene | 79-01-6 | 201-167-4 | ND | 0.050 |
| Triethyl arsenate* | 15606-95-8 | 427-700-2 | ND | 0.005 |
| Tris(2-chloroethyl)phosphate | 115-96-8 | 204-118-5 | ND | 0.050 |
| Zirconia Aluminosilicate, Refractory Ceramic Fibres* | 650-017-00-8 (Index no.) | - | ND | 0.005 |

Test Result (per test group): (Substances in the candidate list of SVHC published on December 19, 2011)

| Substance Name | CAS No. | EC No. | Concentration (%) | RL(%) |
|---|-----------------------------|-----------|-------------------|-------|
| 1,2-Dichloroethane | 107-06-2 | 203-458-1 | ND | 0.050 |
| 2,2'-dichloro-4,4'-methylenedianiline (MOCA) | 101-14-4 | 202-918-9 | ND | 0.050 |
| 2-Methoxyaniline | 90-04-0 | 201-963-1 | ND | 0.050 |
| 4-tert-Octylphenol | 140-66-9 | 205-426-2 | ND | 0.050 |
| Aluminosilicate Refractory Ceramic Fibres (RCF) * | 650-017-00-8 (Index no.) | - | ND | 0.005 |
| Arsenic acid* | 7778-39-4 | 231-901-9 | ND | 0.005 |
| Bis(2-methoxyethyl) ether | 111-96-6 | 203-924-4 | ND | 0.050 |
| Bis(2-methoxyethyl) phthalate | 117-82-8 | 204-212-6 | ND | 0.050 |
| Calcium arsenate* | 7778-44-1 | 231-904-5 | ND | 0.005 |
| Dichromium tris(chromate) * | 24613-89-6 | 246-356-2 | ND | 0.005 |
| Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4 | 500-036-1 | ND | 0.050 |
| Lead diazide* | 13424-46-9 | 236-542-1 | ND | 0.005 |
| Lead dipicrate* | 6477-64-1 | 229-335-2 | ND | 0.005 |
| Lead styphnate* | 15245-44-0 | 239-290-0 | ND | 0.005 |
| N,N-dimethylacetamide (DMAC) | 127-19-5 | 204-826-4 | ND | 0.050 |
| Pentazinc chromate octahydroxide* | 49663-84-5 | 256-418-0 | ND | 0.005 |
| Phenolphthalein | 77-09-8 | 201-004-7 | ND | 0.050 |
| Potassium hydroxyoctaoxodizincatedichromate * | 11103-86-9 | 234-329-8 | ND | 0.005 |
| Trilead diarsenate* | 3687-31-8 | 222-979-5 | ND | 0.005 |
| Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) * | 650-017-00-8 (Index no.) | - | ND | 0.005 |

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Notes :

1. RL = Reporting Limit. All RL are based on homogenous material
2. ND = Not detected (lower than RL). ND is denoted on the SVHC substance.
3. ^Δ CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
4. * 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

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, boron, calcium, potassium, zinc and strontium respectively), except molybdenum RL=0.0005%

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Sample photo :



SGS authenticate the photo on original report only

*** End of Report ***

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