

## Test Report (SVHC)

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CHERN SHIANQ ENTERPRISE CO., LTD.  
NO.57, FU CHIANG RD., GUAN TIAN INDUSTRIAL PARK, 720 TAINAN CITY, TAIWAN.



**The following sample(s) was/were submitted and identified by/on behalf of the client as :**

Sample Description : RUBBER FOAM TUBE  
Sample Receiving Date : 2012/05/15  
Testing Period : 2012/05/15 TO 2012/05/22 AND 2012/06/21 TO 2012/07/11 AND  
2012/12/24 TO 2013/01/17

**Test Requested** : 138 Substances of Very High Concern (SVHC) screening. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2012 December 17, regarding Regulation (EC) No 1907/2006 concerning the REACH.

**Test Method** : Please refer to next page(s).

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

**Summary** : According to the interpretation of ECHA and the majority of EU member states on the definition of an article as well as the specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s).

\* This report is added testing by CC/2012/50079 and combined with CC/2012/50079A \*

  
  
**Chenyu Kung / Operation Manager**  
Signed for and on behalf of  
**SGS TAIWAN LTD.**  
**Chemical Laboratory – Taipei**

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CHERN SHIANQ ENTERPRISE CO., LTD.  
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**Test Sample :** BLACK FOAM

**Test Method :** SGS In-House method-RSTS-EE-SVHC-007. Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/MS/DAD.

**Remark:**

1. The chemical analysis of 138 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2012 December 17.

Refer to: <http://echa.europa.eu/web/guest/candidate-list-table>

2. In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 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 is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
3. 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.
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 Result(s)**

Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Anthracene (CAS No.: 120-12-7)	n.d.	0.05	PBT
4,4' - Diaminodiphenylmethane (CAS No.: 101-77-9)	n.d.	0.05	CC2
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	n.d.	0.05	TRC2
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	n.d.	0.05	TRC2
Bis (2-ethyl(hexyl)phthalate) (DEHP) (CAS No.: 117-81-7)	n.d.	0.05	TRC2
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2)	n.d.	0.05	vPvB
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	n.d.	0.05	PBT
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	n.d.	0.05	PBT
Bis(tributyltin)oxide*** (CAS No.: 56-35-9)	n.d.	-	PBT
Cobalt dichloride (CAS No.: 7646-79-9)	n.d.	0.005	CC2; TRC2

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Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	n.d.	-	CC1
Diarsenic trioxide*** (CAS No.: 1327-53-3)	n.d.	-	CC1
Triethyl arsenate*** (CAS No.: 15606-95-8)	n.d.	-	CC1
Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1)	n.d.	-	CC1; TRC1
Sodium chromate*** (CAS No.: 7775-11-3)	n.d.	-	CC2; MC2; TRC2
Ammonium dichromate*** (CAS No.: 7789-09-5)	n.d.	-	CC2; MC2; TRC2
Potassium dichromate*** (CAS No.: 7778-50-9)	n.d.	-	CC2; MC2; TRC2
Potassium chromate*** (CAS No.: 7789-00-6)	n.d.	-	CC2; MC2
Sodium dichromate*** (CAS No.: 10588-01-9, 7789-12-0(*))	n.d.	-	CC2; MC2; TRC2
Chromium trioxide*** (CAS No.: 1333-82-0)	n.d.	-	CC1; MC2
Acids generated from chromium trioxide and their oligomers: Chromic acid*** (CAS No.: 7738-94-5)	n.d.	-	CC2
Acids generated from chromium trioxide and their oligomers: Dichromic acid*** (CAS No.: 13530-68-2)	n.d.	-	CC2
Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid (* 1)	n.d.	-	CC2
Strontium chromate*** (CAS No.: 7789-06-2)	n.d.	-	CC2
Anthracene oil (CAS No.: 90640-80-5) (**)	n.d.	0.05	PBT; vPvB; CC2
Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
Pitch, coal tar, high-temp. (CAS No.: 65996-93-2) (**)	n.d.	0.05	PBT; vPvB; CC2
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	n.d.	0.05	TRC2
2,4-Dinitrotoluene (CAS No.: 121-14-2)	n.d.	0.05	CC2
Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	n.d.	0.05	TRC2
Lead chromate (CAS No.: 7758-97-6)	n.d.	0.01	CC2; TRC1
Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 12656-85-8)	n.d.	0.01	CC2; TRC1

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CHERN SHIANQ ENTERPRISE CO., LTD.  
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Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 1344-37-2)	n.d.	0.01	CC2; TRC1
Acrylamide (CAS No.: 79-06-1)	n.d.	0.05	CC2; MC2
Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	n.d.	-	TRC2
Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	n.d.	-	TRC2
Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267-73-1) (*2)	n.d.	-	TRC2
Trichloroethylene (CAS No.: 79-01-6)	n.d.	0.05	CC2
Cobalt(II) sulphate*** (CAS No.: 10124-43-3)	n.d.	-	CC2; TRC2
Cobalt(II) dinitrate*** (CAS No.: 10141-05-6)	n.d.	-	CC2; TRC2
Cobalt(II) carbonate*** (CAS No.: 513-79-1)	n.d.	-	CC2; TRC2
Cobalt(II) diacetate*** (CAS No.: 71-48-7)	n.d.	-	CC2; TRC2
2-Methoxyethanol (CAS No.: 109-86-4)	n.d.	0.05	TRC2
2-Ethoxyethanol (CAS No.: 110-80-5)	n.d.	0.05	TRC2
2-ethoxyethyl acetate (CAS No.: 111-15-9)	n.d.	0.05	TRC2
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (CAS No.: 68515-42-4)	n.d.	0.05	TRC2
Hydrazine (CAS No.: 7803-57-8; 302-01-2)	n.d.	0.05	CC2
1-methyl-2-pyrrolidone (CAS No.: 872-50-4)	n.d.	0.05	TRC2
1,2,3-trichloropropane (CAS No.: 96-18-4)	n.d.	0.05	CC2; TRC2
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	n.d.	0.05	TRC2
Arsenic acid*** (CAS No.: 7778-39-4)	n.d.	-	CC1
Calcium arsenate*** (CAS No.: 7778-44-1)	n.d.	-	CC1
Trilead diarsenate*** (CAS No.: 3687-31-8) (※1)	n.d.	-	CC1; TRC1
Lead diazide, Lead azide*** (CAS No.: 13424-46-9)	n.d.	-	TRC1
Lead styphnate*** (CAS No.: 15245-44-0)	n.d.	-	TRC1
Lead dipicrate*** (CAS No.: 6477-64-1)	n.d.	-	TRC1
Dichromium tris (chromate)*** (CAS No.: 24613-89-6)	n.d.	-	CC2
Potassium hydroxyoctaoxodizincatedi- chromate*** (CAS No.: 11103-86-9)	n.d.	-	CC1

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Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Pentazinc chromate octahydroxide*** (CAS No.: 49663-84-5)	n.d.	-	CC1
Formaldehyde, oligomeric reaction products with aniline (technical MDA) (CAS No.: 25214-70-4)	n.d.	0.05	CC2
Bis(2-methoxyethyl) phthalate (CAS No.: 117-82-8)	n.d.	0.05	TRC2
2-Methoxyaniline; o-Anisidine (CAS No.: 90-04-0)	n.d.	0.05	CC2
4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)	n.d.	0.05	Equivalent concern
1,2-Dichloroethane (CAS No.: 107-06-2)	n.d.	0.05	CC2
Bis(2-methoxyethyl) ether (CAS No.: 111-96-6)	n.d.	0.05	TRC2
N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)	n.d.	0.05	TRC2
2,2'-dichloro- 4,4'-methylenedianiline (MOCA) (CAS No.: 101-14-4)	n.d.	0.05	CC2
Phenolphthalein (CAS No.: 77-09-8)	n.d.	0.05	CC2
Aluminosilicate, Refractory Ceramic Fibres [oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges]	n.d.	0.05	CC2
Zirconia Aluminosilicate, Refractory Ceramic Fibres [oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges]	n.d.	0.05	CC2
1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme) (CAS No.: 112-49-2)	n.d.	0.05	TRC2
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) (CAS No.: 110-71-4)	n.d.	0.05	TRC2
Formamide (CAS No.: 75-12-7)	n.d.	0.05	TRC2
Lead(II) bis(methanesulfonate)*** (CAS No.: 17570-76-2)	n.d.	-	TRC2
TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6 (1H,3H,5H)-trione) (CAS No.: 2451-62-9)	n.d.	0.05	MC2
β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) (CAS No.: 59653-74-6) (※3)	n.d.	0.05	MC2
4,4'-bis (dimethylamino) benzophenone (Michler's ketone) (CAS No.: 90-94-8)	n.d.	0.05	CC2
N,N,N',N'-tetramethyl- 4,4'-methylenedianiline (Michler's base) (CAS No.: 101-61-1)	n.d.	0.05	CC2

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Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) (CAS No.: 548-62-9) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
[4-[[4-anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) (CAS No.: 2580-56-5) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) (CAS No.: 6786-83-0) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
Diboron trioxide*** (CAS No.: 1303-86-2)	n.d.	-	TRC2
4,4'-bis (dimethylamino)-4''-(methylamino) trityl alcohol (CAS No.: 561-41-1) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
Bis(pentabromophenyl) ether (DecaBDE) (CAS No.: 1163-19-5)	n.d.	0.05	PBT
Pentacosafuorotridecanoic acid (CAS No.: 72629-94-8)	n.d.	0.05	PBT
Tricosafuorododecanoic acid (CAS No.: 307-55-1)	n.d.	0.05	PBT
Henicosafuoroundecanoic acid (CAS No.: 2058-94-8)	n.d.	0.05	PBT
Heptacosafuorotetradecanoic acid (CAS No.: 376-06-7)	n.d.	0.05	PBT
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	n.d.	0.05	Equivalent concern
4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	n.d.	0.05	Equivalent concern
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (CAS No.: 123-77-3)	n.d.	0.05	Equivalent concern
Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) (CAS No.: 85-42-7, 13149-00-3, 14166-21-3)	n.d.	0.05	Equivalent concern
Hexahydromethylphthalic anhydride (CAS No.: 25550-51-0) Hexahydro-4-methylphthalic anhydride (CAS No.: 19438-60-9) Hexahydro-1-methylphthalic anhydride (CAS No.: 48122-14-1) Hexahydro-3-methylphthalic anhydride (CAS No.: 57110-29-9)	n.d.	0.05	Equivalent concern

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Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Methoxy acetic acid (CAS No.: 625-45-6)	n.d.	0.05	TRC2
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	n.d.	0.05	TRC2
Diisopentylphthalate (CAS No.: 605-50-5)	n.d.	0.05	TRC2
N-pentyl-isopentylphthalate (CAS No.: 776297-69-9)	n.d.	0.05	TRC2
1,2-Diethoxyethane (CAS No.: 629-14-1)	n.d.	0.05	TRC2
N,N-dimethylformamide; dimethyl formamide (CAS No.: 68-12-2)	n.d.	0.05	TRC2
Dibutyltin dichloride (DBTC) (CAS No.: 683-18-1)	n.d.	0.05	TRC2
Acetic acid, lead salt, basic*** (CAS No.: 51404-69-4)	n.d.	-	TRC1
Trilead bis(carbonate) dihydroxide (basic lead carbonate)*** (CAS No.: 1319-46-6)	n.d.	-	TRC1
Lead oxide sulfate*** (CAS No.: 12036-76-9)	n.d.	-	TRC1
[Phthalato(2-)] dioxotrilead*** (CAS No.: 69011-06-9)	n.d.	-	TRC1
Dioxobis(stearato) trilead*** (CAS No.: 12578-12-0)	n.d.	-	TRC1
Fatty acids, C16-18, lead salts*** (CAS No.: 91031-62-8)	n.d.	-	TRC1
Lead cyanamidate*** (CAS No.: 20837-86-9)	n.d.	-	TRC1
Lead dinitrate*** (CAS No.: 10099-74-8)	n.d.	-	TRC1
Lead oxide (lead monoxide)*** (CAS No.: 1317-36-8)	n.d.	-	TRC1
Lead tetroxide (orange lead)*** (CAS No.: 1314-41-6)	n.d.	-	TRC1
Pentalead tetraoxide sulphate*** (CAS No.: 12065-90-6)	n.d.	-	TRC1
Silicic acid, lead salt*** (CAS No.: 11120-22-2)	n.d.	-	TRC1
Sulfurous acid, lead salt, dibasic*** (CAS No.: 62229-08-7)	n.d.	-	TRC1
Tetraethyllead*** (CAS No.: 78-00-2)	n.d.	-	TRC1
Tetralead trioxide sulphate*** (CAS No.: 12202-17-4)	n.d.	-	TRC1
Lead bis(tetrafluoroborate)*** (CAS No.: 13814-96-5)	n.d.	-	TRC1
Lead titanium trioxide*** (CAS No.: 12060-00-3)	n.d.	-	TRC1
Lead Titanium Zirconium Oxide*** (CAS No.: 12626-81-2)	n.d.	-	TRC1
Pyrochlore, antimony lead yellow*** (CAS No.: 8012-00-8)	n.d.	-	TRC1
Trilead dioxide phosphonate*** (CAS No.: 12141-20-7)	n.d.	-	TRC1
Silicic acid, barium salt, lead-doped (※4) (CAS No.: 68784-75-8)	n.d.	0.05	TRC1
Furan (CAS No.: 110-00-9)	n.d.	0.05	CC2

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# Test Report (SVHC)

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CHERN SHIANQ ENTERPRISE CO., LTD.  
NO.57, FU CHIANG RD., GUAN TIAN INDUSTRIAL PARK, 720 TAINAN CITY, TAIWAN.



Substance Name	Concentration of Article (%)	RL (%)	Classification [Appendix A]
Propylene oxide; 1,2-epoxypropane; methyloxirane (CAS No.: 75-56-9)	n.d.	0.05	CC2; MC2
Diethyl sulphate (CAS No.: 64-67-5)	n.d.	0.05	CC2; MC2
Dimethyl sulphate (CAS No.: 77-78-1)	n.d.	0.05	CC2
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (CAS No.: 143860-04-2)	n.d.	0.05	TRC2
Dinoseb (CAS No.: 88-85-7)	n.d.	0.05	TRC2
4,4'-methylenedi-o-toluidine (CAS No.: 838-88-0)	n.d.	0.05	CC2
4,4'-oxydianiline and its salts (CAS No.: 101-80-4)	n.d.	0.05	CC2; MC2
4-Aminoazobenzene; 4-Phenylazoaniline (CAS No.: 60-09-3)	n.d.	0.05	CC2
4-methyl-m-phenylenediamine (2,4-toluenediamine) (CAS No.: 95-80-7)	n.d.	0.05	CC2
6-methoxy-m-toluidine (p-cresidine) (CAS No.: 120-71-8)	n.d.	0.05	CC2
Biphenyl-4-ylamine (CAS No.: 92-67-1)	n.d.	0.05	CC1
o-aminoazotoluene (CAS No.: 97-56-3)	n.d.	0.05	CC2
o-Toluidine; 2-Aminotoluene (CAS No.: 95-53-4)	n.d.	0.05	CC2
N-methylacetamide (CAS No.: 79-16-3)	n.d.	0.05	TRC2
1-bromopropane (CAS No.: 106-94-5)	n.d.	0.05	TRC2

**Note :**

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. n.d.= not detected = below Reporting Limit
3. RL = Reporting Limit
4. Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006.
5. " - " = Not Regulated
6. (\*): conc. of Sodium dichromate dihydrate (CAS No.: 7789-12-0) = conc. of sodium dichromate × 1.1374
7. (\*\*): The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
8. (\* 1): Oligomers of chromic acid and dichromic acid : since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.
9. (\* 2): Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).

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CHERN SHIANQ ENTERPRISE CO., LTD.  
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10. \*\*\*: The substance was calculated by the test results of Tributyl Tin or element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt, Barium respectively).

$$AX = A \times F$$

AX	A	F
Diarsenic pentaoxide	Arsenic	1.5339
Diarsenic trioxide		1.3203
Triethyl arsenate		3.0179
Lead hydrogen arsenate		4.6332
Lead dipicrate	Lead	1.6753
Lead styphnate		3.2017
Lead diazide, Lead azide		2.1732
Trilead diarsenate		1.4056
Arsenic acid	Arsenic	1.447
Calcium arsenate		6.0025
Sodium dichromate	Hexavalent Chromium Cr(VI)	1.8946
Sodium chromate		2.6566
Ammonium dichromate		2.5192
Potassium dichromate		3.1151
Potassium chromate		2.4239
Chromium trioxide		2.8289
Chromic acid		3.7347
Dichromic acid		1.9231
Strontium chromate		2.2696
Pentazinc chromate octahydroxide		2.0963
Potassium hydroxyoctaoxodizincatedi-chromate		3.9159
Dichromium tris (chromate)	11.1345	
Bis(tributyltin)oxide	Tributyl Tin (TBT)	4.0277
Cobalt(II) sulphate	Cobalt	2.8975
Cobalt(II) dinitrate		1.0276
Cobalt(II) carbonate		2.63
Cobalt(II) diacetate		3.1042
		2.0183
		3.0038

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$$AX = A \times F$$

AX	A	F
Diboron trioxide	Boron	3.2199
Boric acid		5.7195
Disodium tetraborate, anhydrous		4.6531
Disodium tetraborate, pentahydrate		6.7361
Disodium tetraborate, decahydrate		8.8191
Lead(II) bis(methanesulfonate)	Lead	1.9179
Acetic acid, lead salt, basic		1.367
Trilead bis(carbonate) dihydroxide (basic lead carbonate)		1.2478
Lead oxide sulfate		1.2704
[Phthalato(2-)] dioxotrilead		1.3155
Dioxobis(stearato) trilead		1.9635
Fatty acids, C16-18, lead salts		3.7362
Lead cyanamidate		1.2029
Lead dinitrate		1.5985
Lead oxide (lead monoxide)		1.0772
Lead tetroxide (orange lead)		1.103
Pentalead tetraoxide sulphate		1.1545
Silicic acid, lead salt		1.3672
Sulfurous acid, lead salt, dibasic		1.2753
Tetraethyllead		1.561
Tetralead trioxide sulphate		1.1738
Lead bis(tetrafluoroborate)		1.8379
Lead titanium trioxide		1.4627
Lead Titanium Zirconium Oxide		1.9029
Pyrochlore, antimony lead yellow		1.8579
Trilead dioxide phosphonate	1.1801	
Silicic acid, barium salt, lead-doped	Barium	1.9916

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CHERN SHIANQ ENTERPRISE CO., LTD.  
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**The test result is given as:**

Substance Name	Concentration of Article (%)	RL (%)
Tributyl Tin (TBT)	n.d.	0.05
Arsenic (As) (※2)	n.d.	0.005
Lead (Pb)	n.d.	0.005
Hexavalent Chromium Cr(VI)	n.d.	0.005
Boron (B) (※2)	n.d.	0.005
Cobalt (Co)	n.d.	0.005

11. (※1): Regarding the compound containing arsenic and lead, lead and arsenic are tested and respectively used for the calculation of the independent concentration of the compound containing arsenic and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.
12. (※2): The extracted soluble Boron / Arsenic are detected by ICP-AES.
13. (※3): TGIC is a mixture and also contains β-TGIC. According to the ECHA's technical dossier the ratio of β-TGIC to TGIC is around 1 to 10. Therefore β-TGIC is issued based on the above-mentioned ratio.
14. (※4): Only if both qualitative results of lead and silicon are positive, the test result of the compound will be calculated based on the concentration of barium.

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## Test Report (SVHC)

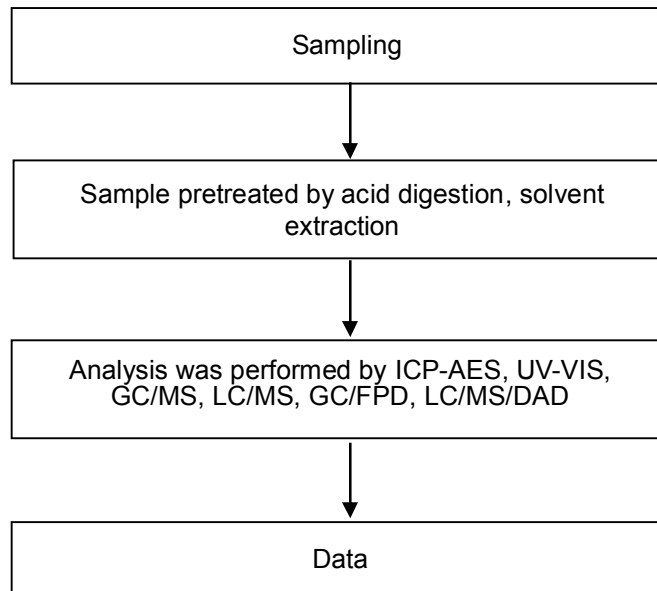
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CHERN SHIANQ ENTERPRISE CO., LTD.  
NO.57, FU CHIANG RD., GUAN TIAN INDUSTRIAL PARK, 720 TAINAN CITY, TAIWAN.



### Analytical flow chart of SVHC

- Name of the person who made measurement: Roman Wong / Stacy Chou / Climbgreat Yang
- Name of the person in charge of measurement: Chenyu Kung



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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

### CC/2012/50079



SGSC12500790101

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## 【Appendix A】

Classification	Definition under 67/548/EEC and Regulation (EC) No 1907/2006
CC1 (Carcinogen Category 1)	Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer.
CC2 (Carcinogen Category 2)	Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development of cancer. Generally on the basis of: - appropriate long-term animal studies - other relevant information.
MC1 (Mutagen Category 1)	Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage.
MC2 (Mutagen Category 2)	Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of: - appropriate animal studies, - other relevant information.
TRC1 (Toxic to Reproduction Category 1)	Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility. Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny.
TRC2 (Toxic to Reproduction Category 2)	Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of: - clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects, - other relevant information. Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of: - clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects, - other relevant information.
PBT & vPvB	Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.

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## 【Appendix B】

SVHC SURVEY FORM			
Company Name	CHERN SHIANQ ENTERPRISE CO., LTD.		
Product name	RUBBER FOAM TUBE		
Product/Sampling weight	30 g		
Report No.	CC/2012/50079B		
Substance identification			
Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
Anthracene	n.d.	N/A	No
4,4' - Diaminodiphenylmethane	n.d.	N/A	No
DBP (Dibutyl phthalate)	n.d.	N/A	No
BBP (Benzyl butyl phthalate)	n.d.	N/A	No
Bis (2-ethyl(hexyl)phthalate) (DEHP)	n.d.	N/A	No
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	N/A	No
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD)	n.d.	N/A	No
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	N/A	No
Bis(tributyltin)oxide	n.d.	N/A	No
Cobalt dichloride	n.d.	N/A	No
Diarsenic pentaoxide	n.d.	N/A	No
Diarsenic trioxide	n.d.	N/A	No
Triethyl arsenate	n.d.	N/A	No
Lead hydrogen arsenate	n.d.	N/A	No
Sodium chromate	n.d.	N/A	No
Ammonium dichromate	n.d.	N/A	No
Potassium dichromate	n.d.	N/A	No
Potassium chromate	n.d.	N/A	No
Sodium dichromate	n.d.	N/A	No
Chromium trioxide	n.d.	N/A	No

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CHERN SHIANQ ENTERPRISE CO., LTD.  
NO.57, FU CHIANG RD., GUAN TIAN INDUSTRIAL PARK, 720 TAINAN CITY, TAIWAN.



Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
Acids generated from chromium trioxide and their oligomers: Chromic acid	n.d.	N/A	No
Acids generated from chromium trioxide and their oligomers: Dichromic acid	n.d.	N/A	No
Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid	n.d.	N/A	No
Strontium chromate	n.d.	N/A	No
Anthracene oil	n.d.	N/A	No
Anthracene oil, anthracene paste, distn. Lights	n.d.	N/A	No
Anthracene oil, anthracene paste, anthracene fraction	n.d.	N/A	No
Anthracene oil, anthracene-low	n.d.	N/A	No
Anthracene oil, anthracene paste	n.d.	N/A	No
Pitch, coal tar, high-temp.	n.d.	N/A	No
DIBP (Di-isobutyl phthalate)	n.d.	N/A	No
2,4-Dinitrotoluene	n.d.	N/A	No
Tris(2-chloroethyl) phosphate (TCEP)	n.d.	N/A	No
Lead chromate	n.d.	N/A	No
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	N/A	No
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	N/A	No
Acrylamide	n.d.	N/A	No
Boric acid	n.d.	N/A	No
Disodium tetraborate, anhydrous	n.d.	N/A	No
Tetraboron disodium heptaoxide, hydrate	n.d.	N/A	No
Trichloroethylene	n.d.	N/A	No
Cobalt(II) sulphate	n.d.	N/A	No
Cobalt(II) dinitrate	n.d.	N/A	No
Cobalt(II) carbonate	n.d.	N/A	No
Cobalt(II) diacetate	n.d.	N/A	No
2-Methoxyethanol	n.d.	N/A	No
2-Ethoxyethanol	n.d.	N/A	No

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Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
2-ethoxyethyl acetate	n.d.	N/A	No
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	n.d.	N/A	No
Hydrazine	n.d.	N/A	No
1-methyl-2-pyrrolidone	n.d.	N/A	No
1,2,3-trichloropropane	n.d.	N/A	No
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	n.d.	N/A	No
Arsenic acid	n.d.	N/A	No
Calcium arsenate	n.d.	N/A	No
Trilead diarsenate	n.d.	N/A	No
Lead diazide, Lead azide	n.d.	N/A	No
Lead styphnate	n.d.	N/A	No
Lead dipicrate	n.d.	N/A	No
Dichromium tris (chromate)	n.d.	N/A	No
Potassium hydroxyoctaoxidizincatedi-chromate	n.d.	N/A	No
Pentazinc chromate octahydroxide	n.d.	N/A	No
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	n.d.	N/A	No
Bis(2-methoxyethyl) phthalate	n.d.	N/A	No
2-Methoxyaniline; o-Anisidine	n.d.	N/A	No
4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	n.d.	N/A	No
1,2-Dichloroethane	n.d.	N/A	No
Bis(2-methoxyethyl) ether	n.d.	N/A	No
N,N-dimethylacetamide (DMAC)	n.d.	N/A	No
2,2'-dichloro- 4,4'-methylenedianiline (MOCA)	n.d.	N/A	No
Phenolphthalein	n.d.	N/A	No
Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges】	n.d.	N/A	No

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CHERN SHIANQ ENTERPRISE CO., LTD.

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Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
Zirconia Aluminosilicate, Refractory Ceramic Fibres 【oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges】	n.d.	N/A	No
1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme)	n.d.	N/A	No
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	n.d.	N/A	No
Formamide	n.d.	N/A	No
Lead(II) bis(methanesulfonate)	n.d.	N/A	No
TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6 (1H,3H,5H)-trione)	n.d.	N/A	No
β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	n.d.	N/A	No
4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	n.d.	N/A	No
N,N,N',N'-tetramethyl- 4,4'-methylenedianiline (Michler's base)	n.d.	N/A	No
[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	N/A	No
[4-[4-anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	N/A	No
α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	N/A	No
Diboron trioxide	n.d.	N/A	No
4,4'-bis (dimethylamino)-4''-(methylamino) trityl alcohol [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	N/A	No
Bis(pentabromophenyl) ether (DecaBDE)	n.d.	N/A	No
Pentacosaflluorotridecanoic acid	n.d.	N/A	No
Tricosaflluorododecanoic acid	n.d.	N/A	No
Henicosaflluoroundecanoic acid	n.d.	N/A	No
Heptacosaflluorotetradecanoic acid	n.d.	N/A	No
4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	n.d.	N/A	No

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Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	n.d.	N/A	No
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	n.d.	N/A	No
Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	n.d.	N/A	No
Hexahydromethylphthalic anhydride 、 Hexahydro-4-methylphthalic anhydride 、 Hexahydro-1-methylphthalic anhydride 、 Hexahydro-3-methylphthalic anhydride	n.d.	N/A	No
Methoxy acetic acid	n.d.	N/A	No
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	n.d.	N/A	No
Diisopentylphthalate	n.d.	N/A	No
N-pentyl-isopentylphthalate	n.d.	N/A	No
1,2-Diethoxyethane	n.d.	N/A	No
N,N-dimethylformamide; dimethyl formamide	n.d.	N/A	No
Dibutyltin dichloride (DBTC)	n.d.	N/A	No
Acetic acid, lead salt, basic	n.d.	N/A	No
Trilead bis(carbonate) dihydroxide (basic lead carbonate)	n.d.	N/A	No
Lead oxide sulfate	n.d.	N/A	No
[Phthalato(2-)] dioxotrilead	n.d.	N/A	No
Dioxobis(stearato) trilead	n.d.	N/A	No
Fatty acids, C16-18, lead salts	n.d.	N/A	No
Lead cyanamidate	n.d.	N/A	No
Lead dinitrate	n.d.	N/A	No
Lead oxide (lead monoxide)	n.d.	N/A	No
Lead tetroxide (orange lead)	n.d.	N/A	No
Pentalead tetraoxide sulphate	n.d.	N/A	No
Silicic acid, lead salt	n.d.	N/A	No
Sulfurous acid, lead salt, dibasic	n.d.	N/A	No

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Substance name	Concentration of Article (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
Tetraethyllead	n.d.	N/A	No
Tetralead trioxide sulphate	n.d.	N/A	No
Lead bis(tetrafluoroborate)	n.d.	N/A	No
Lead titanium trioxide	n.d.	N/A	No
Lead Titanium Zirconium Oxide	n.d.	N/A	No
Pyrochlore, antimony lead yellow	n.d.	N/A	No
Trilead dioxide phosphonate	n.d.	N/A	No
Silicic acid, barium salt, lead-doped	n.d.	N/A	No
Furan	n.d.	N/A	No
Propylene oxide; 1,2-epoxypropane; methyloxirane	n.d.	N/A	No
Diethyl sulphate	n.d.	N/A	No
Dimethyl sulphate	n.d.	N/A	No
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	n.d.	N/A	No
Dinoseb	n.d.	N/A	No
4,4'-methylenedi-o-toluidine	n.d.	N/A	No
4,4'-oxydianiline and its salts	n.d.	N/A	No
4-Aminoazobenzene; 4-Phenylazoaniline	n.d.	N/A	No
4-methyl-m-phenylenediamine (2,4-toluenediamine)	n.d.	N/A	No
6-methoxy-m-toluidine (p-cresidine)	n.d.	N/A	No
Biphenyl-4-ylamine	n.d.	N/A	No
o-aminoazotoluene	n.d.	N/A	No
o-Toluidine; 2-Aminotoluene	n.d.	N/A	No
N-methylacetamide	n.d.	N/A	No
1-bromopropane	n.d.	N/A	No

**Note:**

(A) N/A = Non-Available

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

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