Test Report (SVHC)

GUANG ZHOU SHIN DORN PLASTIC TOY CO., LTD.
NO.2 COALMINE,HUANGBIAN,XINSHI TOWN,GUANGZHOU,GUANGDONG
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Vinyl Repair Glue

SGS Job No. :	CP13-040548 - GZ
Date of Sample Received :	01 Aug 2013
Testing Period :	01 Aug 2013 - 09 Aug 2013
Test Requested :	As requested by client, SVHC screening is performed according to: (i) One hundred and forty four (144) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 20, 2013 regarding Regulation (EC) No 1907/2006 concerning the REACH.
Test Results :	Please refer to next page(s).

Summary :

According to the specified scope and analytical techniques, concentrations of tested SVHC are ≤ 0.1% (w/w) in the submitted sample.	PASS

Signed for and on behalf of
SGS-CSTC Ltd.

Zmguan

Zm guan
Approved Signatory

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Remark :

(1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
http://echa.europa.eu/web/guest/candidate-list-table
These lists are under evaluation by ECHA and may subject to change in the future.

(2) Concerning article(s):
In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

SGS adopts the interpretation of ECHA for SVHC in article unless indicated otherwise. Detail explanation is available at the following link:
http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf

(3) Concerning material(s):
Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) Concerning substance and preparation:
If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC)

No 1907/2006, in which:
- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

- a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or

- a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:
(a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
(b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
(d) a substance for which there are Europe-wide workplace exposure limits.

(5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

Specimen No.	SGS Sample ID	Description
1	CAN13-120600.001	Transparent paste

Test Method :
SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.

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

NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
1	[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	219-943-6	ND	0.050
2	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	208-953-6	ND	0.050
3	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	ND	0.005
4	1,2,3-trichloropropane	96-18-4	202-486-1	ND	0.050
5	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	ND	0.050
6	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	ND	0.050
7	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	ND	0.050
8	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	ND	0.050
9	1,2-Dichloroethane	107-06-2	203-458-1	ND	0.050
10	1,2-Diethoxyethane	629-14-1	211-076-1	ND	0.050
11	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	ND	0.050
12	1-Bromopropane	106-94-5	203-445-0	ND	0.050
13	1-methyl-2-pyrrolidone	872-50-4	212-828-1	ND	0.050
14	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	ND	0.050
15	2,4-Dinitrotoluene	121-14-2	204-450-0	ND	0.050

NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
16	2-Ethoxyethanol	110-80-5	203-804-1	ND	0.050
17	2-ethoxyethyl acetate	111-15-9	203-839-2	ND	0.050
18	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	ND	0.050
19	2-Methoxyethanol	109-86-4	203-713-7	ND	0.050
20	3-Ethyl-2-methyl-2-(3-methylbutyl) -1,3-oxazolidine	143860-04-2	421-150-7	ND	0.050
21	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	ND	0.050
22	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	ND	0.050
23	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	202-974-4	ND	0.050
24	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	202-027-5	ND	0.050
25	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	209-218-2	ND	0.050
26	4,4'-Methylenedi-o-toluidine	838-88-0	212-658-8	ND	0.050
27	4,4'-Oxydianiline and its salts	101-80-4	202-977-0	ND	0.050
28	4-Aminoazobenzene	60-09-3	200-453-6	ND	0.050
29	4-Methyl-m-phenylenediamine	95-80-7	202-453-1	ND	0.050
30	4-Nonylphenol, branched and linear	-	-	ND	0.050
31	4-Nonylphenol, branched and linear, ethoxylated	-	-	ND	0.050
32	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	ND	0.050
33	6-Methoxy-m-toluidine	120-71-8	204-419-1	ND	0.050
34	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	ND	0.005
35	Acrylamide	79-06-1	201-173-7	ND	0.050

NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
36	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	ND	0.050
37	Aluminosilicate Refractory Ceramic Fibres *▲	650-017-00-8 (Index no.)	-	ND	0.005
38	Ammonium dichromate*	7789-09-5	232-143-1	ND	0.005
39	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	ND	0.050
40	Anthracene	120-12-7	204-371-1	ND	0.050
41	Anthracene oil*	90640-80-5	292-602-7	ND	0.050
42	Anthracene oil, anthracene paste*	90640-81-6	292-603-2	ND	0.050
43	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	295-275-9	ND	0.050
44	Anthracene oil, anthracene paste, distn. lights*	91995-17-4	295-278-5	ND	0.050
45	Anthracene oil, anthracene-low*	90640-82-7	292-604-8	ND	0.050
46	Arsenic acid*	7778-39-4	231-901-9	ND	0.005
47	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	ND	0.050
48	Biphenyl-4-ylamine	92-67-1	202-177-1	ND	0.050
49	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	ND	0.050
50	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	ND	0.050
51	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	ND	0.050
52	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	ND	0.050
53	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	ND	0.050
54	Boric acid*	10043-35-3, 11113-50-1	233-139-2, 234-343-4	ND	0.005
55	Cadmium oxide*	1306-19-0	215-146-2	ND	0.005

NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
56	Cadmium*	7440-43-9	231-152-8	ND	0.005
57	Calcium arsenate*	7778-44-1	231-904-5	ND	0.005
58	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5 - 13530-68-2	231-801-5 - 236-881-5	ND	0.005
59	Chromium trioxide*	1333-82-0	215-607-8	ND	0.005
60	Cobalt dichloride*	7646-79-9	231-589-4	ND	0.005
61	Cobalt(II) carbonate*	513-79-1	208-169-4	ND	0.005
62	Cobalt(II) diacetate*	71-48-7	200-755-8	ND	0.005
63	Cobalt(II) dinitrate*	10141-05-6	233-402-1	ND	0.005
64	Cobalt(II) sulphate*	10124-43-3	233-334-2	ND	0.005
65	Diarsenic pentaoxide*	1303-28-2	215-116-9	ND	0.005
66	Diarsenic trioxide*	1327-53-3	215-481-4	ND	0.005
67	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	ND	0.050
68	Diboron trioxide*	1303-86-2	215-125-8	ND	0.005
69	Dibutyl phthalate (DBP)	84-74-2	201-557-4	ND	0.050
70	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	ND	0.050
71	Dichromium tris(chromate) *	24613-89-6	246-356-2	ND	0.005
72	Diethyl sulphate	64-67-5	200-589-6	ND	0.050
73	Diisobutyl phthalate	84-69-5	201-553-2	ND	0.050
74	Diisopentylphthalate	605-50-5	210-088-4	ND	0.050
75	Dimethyl sulphate	77-78-1	201-058-1	ND	0.050
76	Dinoseb	88-85-7	201-861-7	ND	0.050

NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
77	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	ND	0.005
78	Dipentyl phthalate (DPP)	131-18-0	205-017-9	ND	0.050
79	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	215-540-4	ND	0.005
80	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	ND	0.005
81	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	ND	0.050
82	Formamide	75-12-7	200-842-0	ND	0.050
83	Furan	110-00-9	203-727-3	ND	0.050
84	Henicosafluoroundecanoic acid	2058-94-8	218-165-4	ND	0.050
85	Heptacosafluorotetradecanoic acid	376-06-7	206-803-4	ND	0.050
86	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)△	25637-99-4, 3194- 55-6	247-148-4, 221-695-9	ND	0.050
87	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	ND	0.050
88	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	☆	☆	ND	0.050
89	Hydrazine	7803-57-8, 302-01-2	206-114-9	ND	0.050
90	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	ND	0.005
91	Lead chromate*	7758-97-6	231-846-0	ND	0.005
92	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	ND	0.005

NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
93	Lead cyanamidate*	20837-86-9	244-073-9	ND	0.005
94	Lead diazide, Lead azide*	13424-46-9	236-542-1	ND	0.005
95	Lead dinitrate*	10099-74-8	233-245-9	ND	0.005
96	Lead dipicrate*	6477-64-1	229-335-2	ND	0.005
97	Lead hydrogen arsenate*	7784-40-9	232-064-2	ND	0.005
98	Lead monoxide*	1317-36-8	215-267-0	ND	0.005
99	Lead oxide sulfate*	12036-76-9	234-853-7	ND	0.005
100	Lead styphnate*	15245-44-0	239-290-0	ND	0.005
101	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	ND	0.005
102	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	ND	0.005
103	Lead titanium trioxide*	12060-00-3	235-038-9	ND	0.005
104	Lead titanium zirconium oxide*	12626-81-2	235-727-4	ND	0.005
105	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	ND	0.005
106	Methoxyacetic acid	625-45-6	210-894-6	ND	0.050
107	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	ND	0.050
108	N,N-dimethylacetamide	127-19-5	204-826-4	ND	0.050
109	N,N-dimethylformamide	68-12-2	200-679-5	ND	0.050
110	N-Methylacetamide	79-16-3	201-182-6	ND	0.050
111	N-Pentyl-isopentylphthalate	776297-69-9	-	ND	0.050
112	o-Aminoazotoluene	97-56-3	202-591-2	ND	0.050
113	o-Toluidine	95-53-4	202-429-0	ND	0.050
114	Pentacosafluorotridecanoic acid	72629-94-8	276-745-2	ND	0.050

NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
115	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	ND	0.050
116	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	ND	0.005
117	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	ND	0.005
118	Phenolphthalein	77-09-8	201-004-7	ND	0.050
119	Pitch, coal tar, high temp.*	65996-93-2	266-028-2	ND	0.050
120	Potassium chromate*	7789-00-6	232-140-5	ND	0.005
121	Potassium dichromate*	7778-50-9	231-906-6	ND	0.005
122	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	ND	0.005
123	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	ND	0.050
124	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	ND	0.005
125	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	ND	0.005
126	Silicic acid, lead salt*	11120-22-2	234-363-3	ND	0.005
127	Sodium chromate*	7775-11-3	231-889-5	ND	0.005
128	Sodium dichromate*	7789-12-0, 10588-01-9	234-190-3	ND	0.005
129	Strontium chromate*	7789-06-2	232-142-6	ND	0.005
130	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	ND	0.005
131	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	ND	0.005
132	Tetraethyllead*	78-00-2	201-075-4	ND	0.005
133	Tetralead trioxide sulphate*	12202-17-4	235-380-9	ND	0.005
134	TGIC (1,3,5-tris(oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	ND	0.050
135	Trichloroethylene	79-01-6	201-167-4	ND	0.050

NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
136	Tricosafluorododecanoic acid	307-55-1	206-203-2	ND	0.050
137	Triethyl arsenate*	15606-95-8	427-700-2	ND	0.005
138	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	ND	0.005
139	Trilead diarsenate*	3687-31-8	222-979-5	ND	0.005
140	Trilead dioxide phosphonate*	12141-20-7	235-252-2	ND	0.005
141	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	ND	0.050
142	Zirconia Aluminosilicate Refractory Ceramic Fibres*▲	650-017-00-8 (Index no.)	-	ND	0.005
143	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	229-851-8	ND	0.050
144	β-TGIC (1,3,5-tris[(2S and 2R) -2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	ND	0.050

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: www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm.

3. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

4.▲ On Jun 18, 2012, ECHA consolidated two entries of aluminosilicate refractory ceramic fibres and two of zirconia aluminosilicate refractory ceramic fibres in the Candidate List of SVHC for authorization published in Jan 2010 and Dec 2011 into one entry for aluminosilicate refractory ceramic fibres and one for zirconia aluminosilicate refractory ceramic fibres.

5. Calculated concentration of boric compounds are based on the total boron by ICP-OES.

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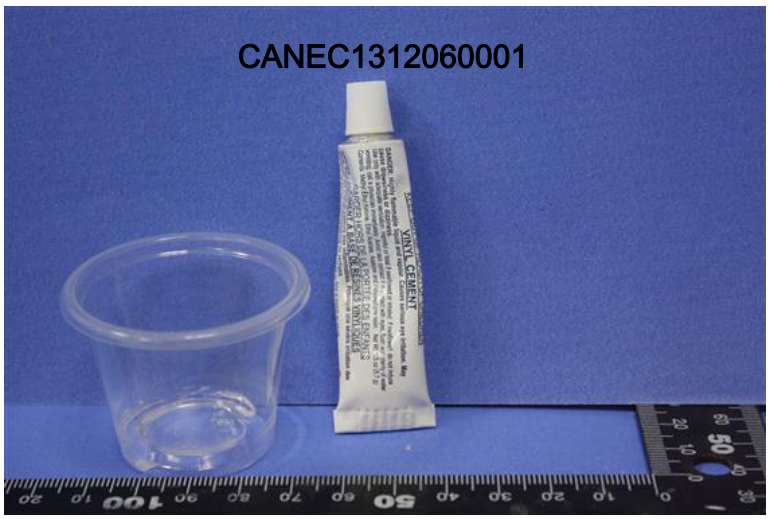
6. Δ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.
7. ☆ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
9.The result(s) shown is/are of the total weight of wet sample.

Sample photo:



CAN13-120600.001

SGS authenticate the photo on original report only

*** End of Report ***

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