Test Report **No: SHFDO120404156FDE** **Date: Apr 23 2012**

Client name: Huzhou Ochem Chemical Co., Ltd
Client address: #688 Xifeng Road, Huzhou, Zhejiang, China

The following sample(s) was/were submitted by/ on behalf of the client as (except SGS reference No. & SGS job No. & Date of receipt & Testing period):

Sample name: Two-component Polyurethane Adhesive
Batch No./Date: A: 292682/12.04.05
B: 7509028/12.04.08
Manufacturer: Huzhou Ochem Chemical Co., Ltd
SGS reference No.: SHAFD1205419401
SGS job No.: SHFDO120404156FD
Date of receipt: Apr 14 2012
Testing period: Apr 14 2012 ~ Apr 20 2012

TEST(S) REQUESTED:
Selected test(s) as requested by applicant:
Mixed the samples as 5:1, then test the following test
SVHC screening is performed according to:
(i) 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 Dec 19, 2011 regarding Regulation (EC) No 1907/2006 concerning the REACH.

TEST METHOD(S):
SGS In-House method-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T. Analyzed by ICP-OES, GC-MS, and UV-VIS,Colorimetric Method/HPLC.

TEST RESULT(S):
Please refer to next page

CONCLUSION:

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

SGS-CSTC CONSUMER TESTING SERVICES SGS FOOD SHANGHAI

.....
Authorized Signature

SGS-CSTC Standards Technical Services (Shanghai) Co.,Ltd. Testing Center
3rd Building,No.889,Yishan Road,Shanghai,China 200233 t (86-21)61402666*2785 f (86-21)54500454 www.cn.sgs.com
中国・上海・宜山路889号3号楼 邮编:200233 t (86-21)61402666*2785 f (86-21)54500454 e sgs.china@sgs.com
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TEST RESULT(S):

Substances in the Candidate List of SVHC

Substance Name	CAS No.	EC No.	Concentration(%)	RL (%)
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	Not detected	0.050
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	Not detected	0.050
1,2-Dichloroethane	107-06-2	203-458-1	Not detected	0.050
1,2,3-trichloropropane	96-18-4	202-486-1	Not detected	0.050
1-methyl-2-pyrrolidone	872-50-4	212-828-1	Not detected	0.050
2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	Not detected	0.050
2,4-Dinitrotoluene	121-14-2	204-450-0	Not detected	0.050
2-Ethoxyethanol	110-80-5	203-804-1	Not detected	0.050
2-ethoxyethyl acetate	111-15-9	203-839-2	Not detected	0.050
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	Not detected	0.050
2-Methoxyethanol	109-86-4	203-713-7	Not detected	0.050
4,4-Diaminodiphenylmethane(MDA)	101-77-9	202-974-4	Not detected	0.050
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	Not detected	0.050
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	Not detected	0.050
Acrylamide	79-06-01	201-173-7	Not detected	0.050
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	Not detected	0.050
Aluminosilicate Refractory Ceramic Fibres [with Al_2O_3 and SiO_2 present in certain concentration ranges (Al_2O_3: 43.5 - 47 % w/w, and SiO_2: 49.5 - 53.5 % w/w, or Al_2O_3:45.5 - 50.5 % w/w, and SiO_2: 48.5 - 54 % w/w)]*	650-017-00-8 (Index no.)		Not detected	0.005
Aluminosilicate Refractory Ceramic Fibres (with oxides of aluminium and silicon as the main components present in variable concentration ranges)*	650-017-00-8 (Index no.)		Not detected	0.005
Ammonium dichromate*	7789-09-5	232-143-1	Not detected	0.005
Anthracene	120-12-7	204-371-1	Not detected	0.050
Anthracene oil*	90640-80-5	292-602-7	Not detected	0.050
Anthracene oil, anthracene paste*	90640-81-6	292-603-2	Not detected	0.050
Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	295-275-9	Not detected	0.050

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SHFD
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中国・上海・宜山路889号3号楼 邮编:200233 t (86-21)61402666*2785 f (86-21)54500454 e sgs.china@sgs.com
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Substance Name	CAS No.	EC No.	Concentration(%)	RL (%)
Anthracene oil, anthracene paste, distn. lights*	91995-17-4	295-278-5	Not detected	0.050
Anthracene oil, anthracene-low*	90640-82-7	292-604-8	Not detected	0.050
Arsenic acid*	7778-39-4	231-901-9	Not detected	0.005
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	Not detected	0.050
Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	Not detected	0.050
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	Not detected	0.050
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	Not detected	0.050
Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	Not detected	0.050
Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	Not detected	0.005
Calcium arsenate*	7778-44-1	231-904-5	Not detected	0.005
Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	231-801-5 236-881-5	Not detected	0.005
Chromium trioxide*	1333-82-0	215-607-8	Not detected	0.005
Cobalt carbonate*	513-79-1	208-169-4	Not detected	0.005
Cobalt diacetate*	71-48-7	200-755-8	Not detected	0.005
Cobalt dichloride*	7646-79-9	231-589-4	Not detected	0.005
Cobalt dinitrate*	10141-05-6	233-402-1	Not detected	0.005
Cobalt sulphate*	10124-43-3	233-334-2	Not detected	0.005
Diarsenic pentaoxide*	1303-28-2	215-116-9	Not detected	0.005
Diarsenic trioxide*	1327-53-3	215-481-4	Not detected	0.005
Dibutyl phthalate (DBP)	84-74-2	201-557-4	Not detected	0.050
Dichromium tris(chromate) *	24613-89-6	246-356-2	Not detected	0.005
Diisobutyl phthalate	84-69-5	201-553-2	Not detected	0.050
Disodium tetraborate, anhydrous*	1303-96-4 12179-04-3	215-540-4 1330-43-4	Not detected	0.005
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	Not detected	0.050
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified(α -HBCDD, β -HBCDD, γ -HBCDD)△	25637-99-4 and 3194- 55-6	247-148-4 and 221-695-9	Not detected	0.050
Hydrazine	7803-57-8 and 302-01-2	206-114-9	Not detected	0.050
Lead chromate*	7758-97-6	231-846-0	Not detected	0.005
Lead chromate molybdate sulphate	12656-85-8	235-759-9	Not detected	0.005

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Substance Name	CAS No.	EC No.	Concentration(%)	RL (%)
red (C.I. Pigment Red 104)*				
Lead diazide, Lead azide*	13424-46-9	236-542-1	Not detected	0.005
Lead dipicrate*	6477-64-1	229-335-2	Not detected	0.005
Lead hydrogen arsenate*	7784-40-9	232-064-2	Not detected	0.005
Lead styphnate*	15245-44-0	239-290-0	Not detected	0.005
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	Not detected	0.005
N,N-dimethylacetamide	127-19-5	204-826-4	Not detected	0.050
Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	Not detected	0.005
Phenolphthalein	77-09-8	201-004-7	Not detected	0.050
Pitch, coal tar, high temp.*	65996-93-2	266-028-2	Not detected	0.050
Potassium chromate*	7789-00-6	232-140-5	Not detected	0.005
Potassium dichromate*	7778-50-9	231-906-6	Not detected	0.005
Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	Not detected	0.005
Sodium chromate*	7775-11-3	231-889-5	Not detected	0.005
Sodium dichromate*	7789-12-0 and 10588-01-9	234-190-3	Not detected	0.005
Strontium chromate*	7789-06-2	232-142-6	Not detected	0.005
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	Not detected	0.005
Trichloroethylene	79-01-6	201-167-4	Not detected	0.050
Triethyl arsenate*	15606-95-8	427-700-2	Not detected	0.005
Trilead diarsenate*	3687-31-8	222-979-5	Not detected	0.005
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	Not detected	0.050
Zirconia Aluminosilicate Refractory Ceramic Fibres [with Al_2O_3, SiO_2 and ZrO_2 present in certain concentration ranges(Al_2O_3: 35 - 36 % w/w, SiO_2: 47.5 - 50 % w/w, and ZrO_2: 15 - 17 % w/w)]*	650-017-00-8 (Index no.)		Not detected	0.005
Zirconia Aluminosilicate Refractory Ceramic Fibres (with oxides of aluminium, silicon and zirconium as the main components present in variable concentration ranges)*	650-017-00-8 (Index no.)	-	Not detected	0.005

Notes :

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SHFD
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(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) △CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
(3) * 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
Calculated concentration of boric acid, disodium tetraborate, anhydrous and tetraboron disodium heptaoxide, hydrate are based on the water extractive boron and sodium by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium (VI), silicon, aluminum, zirconium, boron, potassium, strontium, zinc and calcium respectively), except molybdenum RL=0.0005%

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.

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(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.

SAMPLE DESCRIPTION: Transparent liquid : Yellow liquid = 5:1

*** End of Report***

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