

Test Report

No: SHFDN130301596FDE

Date: Mar 20 2013

Client name: HUZHOUCHEM CHEMICAL CO., LTD
Client address: #688 XIFENG ROAD, HUZHOUCHEM, 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: PU RESIN/ POLYURETHANE TWO-COMPONENT RESINS/ TWO-COMPONENT POLYURETHANE ADHESIVE
Manufacturer: HUZHOUCHEM CHEMICAL CO., LTD

Code	A	B
Batch No./Date	2013768/ 02.28.2013	7509745/ 03.03.2013

SGS reference No.: SHAFD1303259201
SGS job No.: SHFDN130301596FD
Date of receipt: Mar 07 2013
Testing period: Mar 07 2013 ~ Mar 20 2013

TEST(S) REQUESTED:

Selected test(s) as requested by applicant:
Sample A: Sample B=5:1 after mixing the two samples to test
As requested by client, SVHC screening is performed according to:
(i) One hundred and thirty eight (138) substances in the Candidate List of Substances of Very High Concern (SVHC) authorization published by European Chemicals Agency (ECHA) on and before Jun 18, 2012 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, HPLC-DAD/MS and Colorimetric Method.

TEST RESULT(S):

Please refer to next page

CONCLUSION:

According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	PASS
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Remark: This test report is in English and maybe translated into other languages, The English version shall prevail.



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TEST RESULT(S):

Substances in the Candidate List of SVHC

Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
[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	0.05
[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	0.05
[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	ND	0.005
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	ND	0.05
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	ND	0.05
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	ND	0.05
1,2-Dichloroethane	107-06-2	203-458-1	ND	0.05
1,2-Diethoxyethane	629-14-1	211-076-1	ND	0.05
1,2,3-trichloropropane	96-18-4	202-486-1	ND	0.05
1-Bromopropane	106-94-5	203-445-0	ND	0.05
1-methyl-2-pyrrolidone	872-50-4	212-828-1	ND	0.05
2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	ND	0.05
2,4-Dinitrotoluene	121-14-2	204-450-0	ND	0.05
2-Ethoxyethanol	110-80-5	203-804-1	ND	0.05
2-ethoxyethyl acetate	111-15-9	203-839-2	ND	0.05
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	ND	0.05
2-Methoxyethanol	109-86-4	203-713-7	ND	0.05
3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	ND	0.05
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	ND	0.05
4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	202-027-5	ND	0.05
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol §	561-41-1	209-218-2	ND	0.05
4,4-Diaminodiphenylmethane(MDA)	101-77-9	202-974-4	ND	0.05
4,4'-Methylenedi-o-toluidine	838-88-0	212-658-8	ND	0.05
4,4'-Oxydianiline and its salts	101-80-4	202-977-0	ND	0.05
4-Aminoazobenzene	60-09-3	200-453-6	ND	0.05
4-Methyl-m-phenylenediamine	95-80-7	202-453-1	ND	0.05
4-Nonylphenol, branched and linear	-	-	ND	0.05
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	ND	0.05

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Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	ND	0.05
6-Methoxy-m-toluidine	120-71-8	204-419-1	ND	0.05
Acetic acid, lead salt, basic*	51404-69-4	257-175-3	ND	0.005
Acrylamide	79-06-1	201-173-7	ND	0.05
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	ND	0.05
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	0.05
Anthracene oil*	90640-80-5	292-602-7	ND	0.05
Anthracene oil, anthracene paste*	90640-81-6	292-603-2	ND	0.05
Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	295-275-9	ND	0.05
Anthracene oil, anthracene paste, distn. lights*	91995-17-4	295-278-5	ND	0.05
Anthracene oil, anthracene-low*	90640-82-7	292-604-8	ND	0.05
Arsenic acid*	7778-39-4	231-901-9	ND	0.005
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	ND	0.05
Biphenyl-4-ylamine	92-67-1	202-177-1	ND	0.05
Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	ND	0.05
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	ND	0.05
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	ND	0.05
Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	ND	0.05
Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	ND	0.05
Boric acid*	10043-35-3,1 1113-50-1	233-139-2 234-343-4	ND	0.005
Calcium arsenate*	7778-44-1	231-904-5	ND	0.005
Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5,13 530-68-2	231-801-5 236-881-5	ND	0.005
Chromium trioxide*	1333-82-0	215-607-8	ND	0.005
Cobalt carbonate*	513-79-1	208-169-4	ND	0.005
Cobalt diacetate*	71-48-7	200-755-8	ND	0.005
Cobalt dichloride*	7646-79-9	231-589-4	ND	0.005
Cobalt dinitrate*	10141-05-6	233-402-1	ND	0.005
Cobalt 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
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	ND	0.05
Diboron trioxide*	1303-86-2	215-125-8	ND	0.005
Dibutyl phthalate (DBP)	84-74-2	201-557-4	ND	0.05
Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	ND	0.05
Dichromium tris(chromate) *	24613-89-6	246-356-2	ND	0.005

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Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
Diethyl sulphate	64-67-5	200-589-6	ND	0.05
Diisobutyl phthalate	84-69-5	201-553-2	ND	0.05
Diisopentylphthalate	605-50-5	210-088-4	ND	0.05
Dimethyl sulphate	77-78-1	201-058-1	ND	0.05
Dinoseb	88-85-7	201-861-7	ND	0.05
Dioxobis(stearato)trilead*	12578-12-0	235-702-8	ND	0.005
Disodium tetraborate, anhydrous*	1303-96-4,13 30-43-4,1217 9-04-3	215-540-4	ND	0.005
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	ND	0.05
Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	ND	0.005
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	ND	0.05
Formamide	75-12-7	200-842-0	ND	0.05
Furan	110-00-9	203-727-3	ND	0.05
Henicosfluoroundecanoic acid	2058-94-8	218-165-4	ND	0.05
Heptacosfluorotetradecanoic acid	376-06-7	206-803-4	ND	0.05
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) Δ	25637-99-4,3 194-55-6	247-148-4 and 221-695-9	ND	0.05
Cyclohexane-1,2-dicarboxylic anhydride,cis-cyclohexane-1,2-dicarboxylic anhydride,trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,1314 9-00-3,14166 -21-3	201-604-9,236 -086-3,238-00 9-9	ND	0.05
Hexahydromethylphthalic anhydride,Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride,Hexahydro-3-methylphthalic anhydride	☆	☆	ND	0.05
Hydrazine	7803-57-8,30 2-01-2	206-114-9	ND	0.05
Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	ND	0.005
Lead chromate*	7758-97-6	231-846-0	ND	0.005
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	ND	0.005
Lead cyanamidate*	20837-86-9	244-073-9	ND	0.005
Lead diazide, Lead azide*	13424-46-9	236-542-1	ND	0.005
Lead dinitrate*	10099-74-8	233-245-9	ND	0.005
Lead dipicrate*	6477-64-1	229-335-2	ND	0.005
Lead hydrogen arsenate*	7784-40-9	232-064-2	ND	0.005
Lead monoxide*	1317-36-8	215-267-0	ND	0.005
Lead oxide sulfate*	12036-76-9	234-853-7	ND	0.005

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Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
Lead styphnate*	15245-44-0	239-290-0	ND	0.005
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	ND	0.005
Lead tetroxide (orange lead)*	1314-41-6	215-235-6	ND	0.005
Lead titanium trioxide*	12060-00-3	235-038-9	ND	0.005
Lead titanium zirconium oxide*	12626-81-2	235-727-4	ND	0.005
Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	ND	0.005
Methoxyacetic acid	625-45-6	210-894-6	ND	0.05
Methyloxirane (Propylene oxide)	75-56-9	200-879-2	ND	0.05
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	ND	0.05
N,N-dimethylacetamide	127-19-5	204-826-4	ND	0.05
N,N-Dimethylformamide	68-12-2	200-679-5	ND	0.05
N-Methylacetamide	79-16-3	201-182-6	ND	0.05
N-Pentyl-isopentylphthalate	776297-69-9	-	ND	0.05
o-Aminoazotoluene	97-56-3	202-591-2	ND	0.05
o-Toluidine	95-53-4	202-429-0	ND	0.05
Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	ND	0.05
Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	ND	0.005
Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	ND	0.005
Phenolphthalein	77-09-8	201-004-7	ND	0.05
Pitch, coal tar, high temp.*	65996-93-2	266-028-2	ND	0.05
Potassium chromate*	7789-00-6	232-140-5	ND	0.005
Potassium dichromate*	7778-50-9	231-906-6	ND	0.005
Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	ND	0.005
Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	ND	0.005
Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	ND	0.005
Silicic acid, lead salt*	11120-22-2	234-363-3	ND	0.005
Sodium chromate*	7775-11-3	231-889-5	ND	0.005
Sodium dichromate*	7789-12-0,10 588-01-9	234-190-3	ND	0.005
Strontium chromate*	7789-06-2	232-142-6	ND	0.005
Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	ND	0.005
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	ND	0.05
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	ND	0.005
Tetraethyllead*	78-00-2	201-075-4	ND	0.005
Tetrolead trioxide sulphate*	12202-17-4	235-380-9	ND	0.005
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	ND	0.05
Trichloroethylene	79-01-6	201-167-4	ND	0.05
Tricosafuorododecanoic acid	307-55-1	206-203-2	ND	0.05

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Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
Triethyl arsenate*	15606-95-8	427-700-2	ND	0.005
Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	ND	0.005
Trilead diarsenate*	3687-31-8	222-979-5	ND	0.005
Trilead dioxide phosphonate*	12141-20-7	235-252-2	ND	0.005
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	ND	0.05
Zirconia Aluminosilicate Refractory Ceramic Fibres*▲	650-017-00-8 (Index no.)	-	ND	0.005
α, α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	229-851-8	ND	0.05
β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3 H,5H)-trione)	59653-74-6	423-400-0	ND	0.05

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) △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 diboron trioxide, 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%
- (4) § 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).
- (5) ▲ 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.

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):

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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 $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by

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- 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: A Yellow liquid in bottle B Transparent liquid in bottle



*** End of Report***

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