

Test Report

No. SH9223881/CHEM

Date: Nov. 24, 2009

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HUANGSHAN HUASU NEW MATERIAL SCIENCE & TECHNOLOGY CO. LTD
CHENGBEI INDUSTRIAL ZONE, HUIZHOU DISTRICT, HUANGSHAN CITY, ANHUI, CHINA

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

Sample Name : WOOD PLASTIC COMPOSITE DECK BOARD
SGS Ref No. : 10078267
Part No : 71*11
Main Substance : WOOD FIBER RESIN ADDITIVES PIGMENT

Sample Receiving Date : Nov.18, 2009
Testing Period : Nov.18 – 23, 2009

Test Requested : (1) To determine the Pentachlorophenol (PCP) content and 2,3,5,6-Tetrachlorophenol Content (2,3,5,6-TeCP Content) of the submitted sample in accordance with the German Regulation to the protection from dangerous materials Gefahrstoff-Verordnung (26 October 1993).
(2) As per client's request, to determination DBP, BBP, DEHP, DINP, DNOP and DIDP content of the submitted sample.
(3) To determine the Organostannic compounds content of the submitted sample.
(4) *As specified by client, detection and determination of certain listed aromatic amines derived from Azo Colorants

Test Method : (1) With reference to LFGB § 64 BVL B 82.02.8 - 2001. Analysis was performed by Gas Chromatograph / Electron Capture Detector (GC/ECD).
(2) With reference to EN 14372: 2004. Analysis was performed by Gas Chromatograph / Mass Spectrometer (GC/MS).
(3) With reference to ISO 17353: 2004 with Carbamate, Analysis was performed by Gas Chromatograph / Mass Spectrometer (GC/MS).
(4) * Ref. EN 14362-1:2003– Analysis was conducted with GC-MS/HPLC-DAD.

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

Conclusion : (1) The Pentachlorophenol (PCP) content of the submitted sample complies with German Regulation to the protection from dangerous materials Gefahrstoff-Verordnung (26 October 1993).

Signed for and on behalf of
SGS-CSTC Chemical Laboratory


Sandy Hao
Lab Manager

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Test results by chemical method

(1) Pentachlorophenol (PCP) content and 2,3,5,6-Tetrachlorophenol Content(2,3,5,6-TeCP Content) (Unit: mg/kg)

Test Item(s):	Method (refer to)	1	MDL	German Maximum Limit
Pentachlorophenol (PCP) content	(1)	ND	0.5	5
2,3,5,6-TeCP Content		ND	0.5	-

(2) Phthalates Content (Unit: %)

Item	Method (refer to)	1	MDL
Dibutyl Phthalate (DBP) Content	(2)	ND	0.003
Benzylbutyl Phthalate (BBP) Content		ND	0.003
Bis-(2-ethylhexyl) Phthalate (DEHP) Content		0.005	0.003
Diisononyl Phthalate (DINP) Content		ND	0.010
Di-n-octyl Phthalate (DNOP) Content		ND	0.003
Diisodecyl Phthalate (DIDP) Content		ND	0.010

DBP, BBP, DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):

- i) Shall not be used as substances or in mixtures, in concentrations greater than 0,1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

(3) Organic-Tin compounds Content (Unit: mg/kg)

Test Item(s):	Method (refer to)	1	MDL
Organic-Tin compounds content	(3)	-	-
Dibutyl tin (DBT)		ND	0.5
Tributyl tin (TBT)		ND	0.5

Organostannic compounds Reference Information: Entry 20 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/62/EC)

- (a) Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as biocide in free association paint.
- (b) Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide to prevent the fouling by micro-organisms, plants or animals of:

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(b-1) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes;

(b-2) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming;

(b-3) any totally or partly submerged appliance or equipment.

(c) Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.

Please refer to Regulation (EC) No 552/2009 to get more detail information

(4) *Detection and determination of certain listed aromatic amines derived from Azo Colorants(unit:mg/kg).

Amines	CAS-No.	Result (mg/kg)
		1
4-Aminobiphenyl	92-67-1	ND
Benzidine	92-87-5	ND
4-Chlor-o-toluidine	95-69-2	ND
2-Naphthylamine	91-59-8	ND
o-Aminoazotoluene	97-56-3	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	ND
4-Chloroaniline	106-47-8	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	ND
4,4'-Diaminodiphenylmethane	101-77-9	ND
3,3'-Dichlorobenzidine	91-94-1	ND
3,3'-Dimethoxybenzidine	119-90-4	ND
n.d.3,3'-Dimethylbenzidine	119-93-7	ND
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	ND
p-Cresidine	120-71-8	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND
4,4'-Oxydianiline	101-80-4	ND
4,4'-Thiodianiline	139-65-1	ND
o-Toluidine	95-53-4	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	ND
2,4,5-Trimethylaniline	137-17-7	ND
4-aminoazobenzene	60-09-3	ND
O-Anisidine	90-04-0	ND
Conclusion		#

Note: ND = not detected
Detection Limit = 5 mg/kg (for individual compound)

Remark: For textiles no relevant amine exceeding 30 ppm (mg/kg) is required, the test method is only applicable for textile and the result is only for client's information.

Remark: Test result for 4-aminoazobenzene (CAS no.: 60-09-3) is considered as "not detected" (i.e. <5mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5mg/kg) by mentioned test method

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Test Part Description:

1. Grey-green solid block

Note :

- (1) mg/kg=ppm
- (2) ND = Not detected
- (3) MDL = Method Detection Limit
- (4) % = percentage by weight
- (5) "-" = Not Regulated
- (6) *These tests were subcontracted to SGS-SHSL TEXTILE LAB (Date of testing: 2009/11/19-11/23).

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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