



# TEST REPORT

No. : XMCCM130400365

Date : May.10, 2013

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SHANGHAI KANGER FURNITURE MATERIAL CO., LTD  
NO.77 MINXING ROAD HUAXIN TOWN QINGPU DISTRICT SHANGHAI CITY CHINA

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

Sample Name : ARTIFICIAL MARBLE  
 SGS refer No. : GZMR130404820 / SHMR130403146 / GZCPCH130400266E  
 Type of sample : COMPOSITE ACRYLIC TEXTURE ARTIFICIAL MARBLE SERIES  
 Place of origin : SHANGHAI  
 Manufacturer : SHANGHAI KANGER  
 Test Performed : Selected test(s) as requested by applicant  
 Date of Receipt : Apr.08, 2013  
 Test Period : Apr.08, 2013 to May.09, 2013

Test result(s) : For further details, please refer to the following page(s)

\*\*\*\*\* To be continued\*\*\*\*\*

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: CN.Doccheck@sgs.com

Signed for and on behalf of  
SGS-CSTC Ltd.

Civi Huang  
Xiamen Materials Lab Technical Supervisor

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**XMCCM 000726**

SGS-CSTC Standards Technical Services Co., Ltd.  
Xiamen Branch

No.31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn  
中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编:361101 t. (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

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### Summary of test results:

Test items	Test methods	Sample information	Test results
Water absorption	GB/T 9966.3-2001	50mm×50mm×12mm, 5pcs	0.16%
Bulk density			1.87 g/cm <sup>3</sup>
Stain resistance	JC 908-2002	100mm×100mm, 10pcs	Total value: 48 Maximum individual depth of staining:0.04mm
Glossy(60°)	GB/T 13891-2008	300mm×300mm, 5pcs	35.5
Flatness	JC 908-2002	300mm×300mm, 8pcs	The maximum deviation: 0.31mm
Barcol hardness	GB/T 3854-2005	100mm×100mm×11.54mm, 3pcs	62
Impact toughness	JC 908-2002	117mm×12mm×10mm, 10pcs	4.2kJ/m <sup>2</sup>
Water resistance	JC 908-2002	300mm×300mm, 2pcs	After the test, without any rupture, fissure, bubbling, rumble, knocking sound dumb or stratification on the surface of specimen.
Oxygen index Ignition: method A	GB/T 2406.1-2008 GB/T 2406.2-2009	150mm×12mm×10mm, 30pcs	62.2%
Radionuclides	GB 6566-2010	2kg	Class A, see the Annex A
Acute oral toxicity test	Technical standard for Disinfection, Ministry of Health, PRC, 2002 edition	a bottle of powder samples	The test substance is classified as practical non-toxic, see the Annex B

Note: 1. Water resistance and radionuclides were carried out by external laboratory assessed as competent.  
2. Oxygen index, barcol hardness, impact toughness and acute oral toxicity were carried out by a SGS laboratory.

\*\*\*\*\* To be continued \*\*\*\*\*

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### Annex A

#### Radionuclides

#### Test Method:

GB 6566-2010 Limit of radionuclides in building materials

Specimen: Artificial marble

#### Test Result:

Test items	Requirement in Standard (Class A)	Test Results
Internal exposure index $I_{Ra}$	$I_{Ra} \leq 1.0$	<0.1
External exposure index $I_{\gamma}$	$I_{\gamma} \leq 1.3$	<0.1

#### Specific activity of the nuclides

Nuclides	Units	Specific activity
Ra-226	Bq/kg	4.24
Th-232		2.39
K-40		20.16

Note: The sample complies with requirements of GB 6566-2010 Class A decorative materials, it's unlimited in manufacture, selling and using.

\*\*\*\*\* To be continued\*\*\*\*\*

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### Annex B

Acute oral toxicity test

**Test method:** Technical Standard For disinfection, Ministry of Health, PRC, 2002 edition.

**Test environment:** SPF animals house, certificate No.SYXK 2008-0086, Guangdong, Room temperature 22±1°C, Relative humidity 60±5%.

**Experimental animals and feed:** 20 Healthy SPF Kunming mice were randomly selected, in half respectively male and female, each weighing 19~ 23g. Experimental animals and feed were supplied by Guangdong Medical Experiment Animal Center, certificate No.SCXK 2008-0002, Guangdong. Animal certificate NO. 44007200000386. To adapt the environment before doing experiment the test animals stay in test environment for 3 days.

Preparation of Sample and Design Dose:

Dose: According to The preliminary test, there is no obvious toxic signs and death, so take the once maximum Limite experiment as formal experiment, the dose was 5000 mg/kg·bw.

Confect: Took 25.0 g of sample powder and added peanut oil to 100 mL as test substances.

**Test procedure:**

Administration of Doses: The test substance was administered in a single dose by gavage using a stomach tube, 0.2mL/10g·bw. Fasted for 12 hours prior to dosing, water was available any time, after this fasted for 3 hours, then ordinary diet.

Observation: Experimental observation had lasted for 14 days, recorded signs of toxicity and death of animals every day. Record necropsy findings and calculated LD<sub>50</sub>.

**TEST RESULT(S):**

Acute oral toxicity test\*

Results: After dosing, no obvious toxic signs and death were found, and the LD<sub>50</sub> is greater than 5000 mg/kg·bw.

Table1 the result of acute oral toxicity test

Dose (mg/kg·bw)	Test animals(n)	Death animals(n)	Mortality rate (%)
5000	20	0	0.0

Conclusion: The LD<sub>50</sub> of the sample is greater than 5000 mg/kg·bw, practical non-toxic

\*\*\*\*\* To be continued\*\*\*\*\*

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### Annexed information:

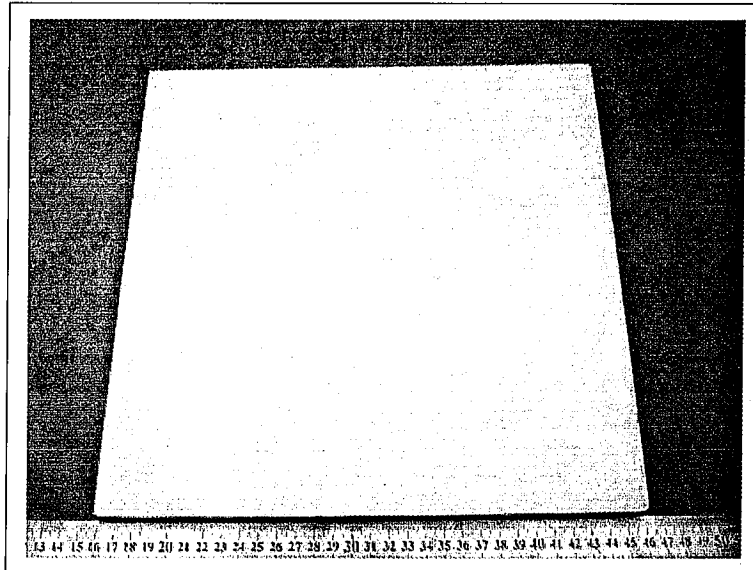
Technical Standard For disinfection, Ministry of Health, PRC, 2002 edition

#### Disinfectant Dose Grade:

LD <sub>50</sub> > 5000 mg/kg·bw	Practical non-toxic.
LD <sub>50</sub> 501~5000 mg/kg·bw	Low toxic
LD <sub>50</sub> 51~500 mg/kg·bw	Moderate toxic
LD <sub>50</sub> 1~50 mg/kg·bw	High toxic
LD <sub>50</sub> < 1 mg/kg·bw	Severe toxic

Note: To evaluate the safety of Disinfection Reagents in actual use, when LD<sub>50</sub> ≤ 5000mg/kg weight, maximum 5X applied solution need to be carried out the acute oral toxicity test

### Specimen photograph:



SGS authenticate the photo on original report only

Note: The testing report in English is the translation of Report No. XMCCM130400297. In the event of any dispute or misunderstanding as to the interpretation of this report, the Chinese version shall control.

\*\*\*\*\*End of report\*\*\*\*\*

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