

## Test Report (SVHC)

No. SHAEC1003957306 A01

Date: 22 Apr 2010

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ZHEJIANG RONGTAI ELECTRIC MATERIAL CO.,LTD  
YONGHONG VILLAGE, FENGQIAO TOWN, JIAXING, ZHEJIANG, CHINA

**THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAEC1003957303 DATE: 2010/04/16**

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

SGS Job No. : SP10-010969 - SH  
Composition : MICA PAPER BINDER, REINFORCE MATERIAL  
Model No. : R-5461  
Date of Sample Received : 08 Apr 2010  
Testing Period : 08 Apr 2010 - 16 Apr 2010  
Test Requested : As requested by client, SVHC screening is performed according to:  
(i) Thirty (30) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) by March 30, 2010 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 $\leq 0.1\%$ (w/w) in the submitted sample.	PASS
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Signed for and on behalf of  
SGS-CSTC Ltd.



Fan Jingjie, JJ  
Report Reviewer

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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:
  - (A) [http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)
  - (B) [http://echa.europa.eu/consultations/authorisation/svhc/svhc\\_cons\\_en.asp](http://echa.europa.eu/consultations/authorisation/svhc/svhc_cons_en.asp)
  - (C) [http://echa.europa.eu/chem\\_data/reg\\_int\\_tables/reg\\_int\\_curr\\_int\\_en.asp#current\\_svhc](http://echa.europa.eu/chem_data/reg_int_tables/reg_int_curr_int_en.asp#current_svhc)
 These lists are under evaluation by ECHA and may subject to change in the future.
  
- (2) 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).
  
- (3) 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.
  
- (4) 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	SHA10-039573.002	White tape

**Test Method :**

SGS In-House method- RSTS-EE-SVHC-002, analyzed by ICP-OES, GC-MS, GC-ECD, IC, and UV-VIS

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

Substance Name	CAS No.	EC No.	002 Concentration (%)	RL (%)
2,4-Dinitrotoluene	121-14-2	204-450-0	ND	0.005
4,4-Diaminodiphenylmethane(MDA)	101-77-9	202-974-4	ND	0.005
Acrylamide	79-06-01	201-173-7	ND	0.005
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	ND	0.01
Aluminosilicate, Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	-	ND	0.005
Anthracene (ANT)	120-12-7	204-371-1	ND	0.005
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	ND	0.005
Bis (2-ethylhexylphthalate) (DEHP)	117-81-7	204-211-0	ND	0.005
Bis(tributyltin)oxide*	56-35-9	200-268-0	ND	0.005
Coal tar pitch, high temperature**	65996-93-2	266-028-2	ND	0.050
Cobalt dichloride*	7646-79-9	231-589-4	ND	0.005
Diarsenic pentaoxide*	1303-28-2	215-116-9	0.033	0.005
Diarsenic trioxide*	1327-53-3	215-481-4	0.029	0.005
Dibutyl phthalate (DBP)	84-74-2	201-557-4	ND	0.005
Diisobutyl phthalate	84-69-5	201-553-2	ND	0.005
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) $\Delta$	25637-99-4 and 3194- 55-6	247-148-4 and 221-695-9	ND	0.005
Lead chromate*	7758-97-6	231-846-0	ND	0.005
Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	ND	0.005
Lead hydrogen arsenate*	7784-40-9	232-064-2	ND	0.005

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Substance Name	CAS No.	EC No.	002 Concentration (%)	RL (%)
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	ND	0.005
Sodium dichromate*	10588-01-9	234-190-3	ND	0.005
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	ND	0.005
Triethyl arsenate*	15606-95-8	427-700-2	0.066	0.005
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	ND	0.005
Zirconia Aluminosilicate, Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	-	ND	0.005
Anthracene oil**	90640-80-5	292-602-7	ND	0.050
Anthracene oil, anthracene paste; distn. lights**	91995-17-4	295-278-5		
Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	295-275-9		
Anthracene oil, anthracene-low**	90640-82-7	292-604-8		
Anthracene oil, anthracene paste**	90640-81-6	292-603-2		

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### Note:

- (1) RL = Reporting Limit. All RL are based on homogenous material
- (2) ND = Not detected (lower than Reporting Limit)
- (3)  $\Delta$ CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
- (4) \*Calculated concentration of cobalt dichloride is based on the identified cobalt by ICP-OES and the identified chloride by IC method.

Calculated concentration of diarsenic pentoxide, diarsenic trioxide, lead hydrogen arsenate and triethyl arsenate are based on the identified arsenic and lead

Calculated concentrations of sodium dichromate are based on the identified sodium by ICP-OES and the identified chromium(VI) by UV-Vis.

Calculated concentration of bis(tributyltin)oxide TBTO is based on the identified tin by ICP-OES and TLC.

Calculated concentration of lead chromate, lead chromate molybdate sulfate red and lead sulfochromate yellow are based on the identified lead, chromium and molybdenum by ICP-OES.

Calculated concentration of Aluminosilicate Refractory Ceramic Fibres and Zirconia Aluminosilicate Refractory Ceramic Fibres are based on the identified silicon, aluminum and zirconium by ICP-OES and confirmation by microscope.

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.005% is evaluated for element (i.e. tin, cobalt, chloride, arsenic, lead, sodium, chromium, chromium (VI), silicon, aluminum and zirconium respectively), except molybdenum RL= 0.0005%

- (5) \*\* The SVHC consists of a diverse combination of chemical compounds fulfilling the definition of UVCB (substances of Unknown or Variable composition, Complex reaction products or Biological materials) under REACH regulation. Test result is calculated as per selected identifiers of the SVHC. The values are determined based on a reference anthracene oil. Calculation is based on the worst-case scenario. Due to the UVCB nature the reported values may be regarded as semi-quantitative.

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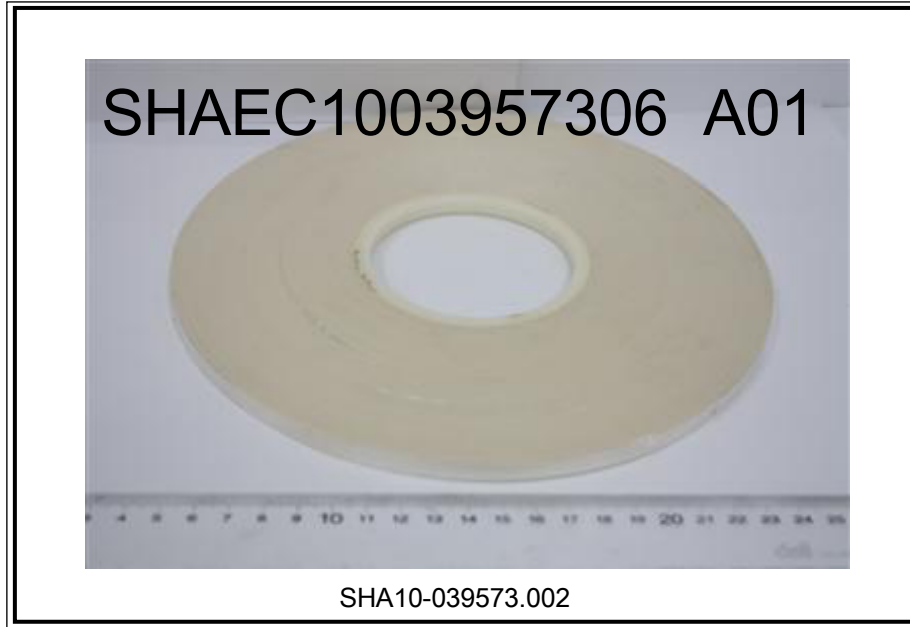
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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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