



**Test Report  
(SVHC)**

No. GZ1104044116/CHEM Date: APR 20, 2011

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HAINAN JINHAI PULP & PAPER CO., LTD  
D12, YANGPU ECONOMIC DEVELOPMENT ZONE, HAINAN, CHINA

The following sample(s) was/were submitted and identified by/on behalf of the client as:  
C2S ART PAPER GLOSS GRADE

SGS Job No. : SZ13068767  
 SGS Internal Reference No. : 16.15  
 Tested sample information : C2S ART PAPER GLOSS GRADE  
 Client Reference Information : C2S ART PAPER MATT GRADE  
 Date of Sample Received : APR 14, 2011  
 Testing Period : APR 14, 2011 TO APR 20, 2011

Test Requested : As requested by client, SVHC screening is performed according to:  
Forty six (46) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Dec 15, 2010 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Result(s) : 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 |
|--|------|

Signed for and on behalf of  
SGS-CSTC Ltd.

David Zhou  
Approved Signatory

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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:  
[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)  
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 :

| <b>Specimen No.</b> | <b>Description</b> |
|---------------------|--------------------|
| 001                 | White paper sheet  |

**Test Method :**

SGS In-House method-GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, GC-MS and UV-VIS.

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

| Substance Name  | CAS No.                      | EC No.                      | Concentration(%) | RL(%) |
|---|------------------------------|-----------------------------|------------------|-------|
|   |                              |                             | 001              |       |
| 2,4-Dinitrotoluene  | 121-14-2                     | 204-450-0                   | N.D.             | 0.050 |
| 2-Ethoxyethanol   | 110-80-5                     | 203-804-1                   | N.D.             | 0.050 |
| 2-Methoxyethanol  | 109-86-4                     | 203-713-7                   | N.D.             | 0.050 |
| 4,4'-Diaminodiphenylmethane(MDA)  | 101-77-9                     | 202-974-4                   | N.D.             | 0.050 |
| 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)                                | 81-15-2                      | 201-329-4                   | N.D.             | 0.050 |
| Acrylamide  | 79-06-01                     | 201-173-7                   | N.D.             | 0.050 |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)                       | 85535-84-8                   | 287-476-5                   | N.D.             | 0.050 |
| Aluminosilicate Refractory Ceramic Fibres*  | 650-017-00-8<br>(Index no.)  | -                           | N.D.             | 0.005 |
| Ammonium dichromate*  | 7789-09-5                    | 232-143-1                   | N.D.             | 0.005 |
| Anthracene  | 120-12-7                     | 204-371-1                   | N.D.             | 0.050 |
| Anthracene oil*   | 90640-80-5                   | 292-602-7                   | N.D.             | 0.050 |
| Anthracene oil, anthracene paste*   | 90640-81-6                   | 292-603-2                   | N.D.             | 0.050 |
| Anthracene oil, anthracene paste, anthracene fraction*                            | 91995-15-2                   | 295-275-9                   | N.D.             | 0.050 |
| Anthracene oil, anthracene paste, distn. Lights*                                  | 91995-17-4                   | 295-278-5                   | N.D.             | 0.050 |
| Anthracene oil, anthracene-low*   | 90640-82-7                   | 292-604-8                   | N.D.             | 0.050 |
| Benzyl butyl phthalate (BBP)  | 85-68-7                      | 201-622-7                   | N.D.             | 0.050 |
| Bis(2-ethylhexyl)phthalate (DEHP)   | 117-81-7                     | 204-211-0                   | N.D.             | 0.050 |
| Bis(tributyltin)oxide (TBTO)  | 56-35-9                      | 200-268-0                   | N.D.             | 0.050 |
| Boric acid*   | 10043-35-3<br>11113-50-1     | 233-139-2<br>234-343-4      | N.D.             | 0.005 |
| Chromic acid,<br>Oligomers of chromic acid and dichromic acid,<br>Dichromic acid* | 7738-94-5<br>-<br>13530-68-2 | 231-801-5<br>-<br>236-881-5 | N.D.             | 0.005 |
| Chromium trioxide*  | 1333-82-0                    | 215-607-8                   | N.D.             | 0.005 |

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| Substance Name  | CAS No.                              | EC No.                        | Concentration(%) | RL(%) |
|---|--------------------------------------|-------------------------------|------------------|-------|
|   |                                      |                               | 001              |       |
| Cobalt dichloride*  | 7646-79-9                            | 231-589-4                     | N.D.             | 0.005 |
| Cobalt(II) carbonate*   | 513-79-1                             | 208-169-4                     | N.D.             | 0.005 |
| Cobalt(II) diacetate*   | 71-48-7                              | 200-755-8                     | N.D.             | 0.005 |
| Cobalt(II) dinitrate*   | 10141-05-6                           | 233-402-1                     | N.D.             | 0.005 |
| Cobalt(II) sulphate*  | 10124-43-3                           | 233-334-2                     | N.D.             | 0.005 |
| Diarsenic pentaoxide*   | 1303-28-2                            | 215-116-9                     | N.D.             | 0.005 |
| Diarsenic trioxide*   | 1327-53-3                            | 215-481-4                     | N.D.             | 0.005 |
| Dibutyl phthalate (DBP)   | 84-74-2                              | 201-557-4                     | N.D.             | 0.050 |
| Diisobutyl phthalate  | 84-69-5                              | 201-553-2                     | N.D.             | 0.050 |
| Disodium tetraborate, anhydrous*  | 1303-96-4<br>1330-43-4<br>12179-04-3 | 215-540-4                     | N.D.             | 0.005 |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) $\Delta$ | 25637-99-4<br>and<br>3194-55-6       | 247-148-4<br>and<br>221-695-9 | N.D.             | 0.050 |
| Lead chromate*  | 7758-97-6                            | 231-846-0                     | N.D.             | 0.005 |
| Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*  | 12656-85-8                           | 235-759-9                     | N.D.             | 0.005 |
| Lead hydrogen arsenate*   | 7784-40-9                            | 232-064-2                     | N.D.             | 0.005 |
| Lead sulfochromate yellow (C.I. Pigment Yellow 34)*   | 1344-37-2                            | 215-693-7                     | N.D.             | 0.005 |
| Pitch, coal tar, high temp.*  | 65996-93-2                           | 266-028-2                     | N.D.             | 0.050 |
| Potassium chromate*   | 7789-00-6                            | 232-140-5                     | N.D.             | 0.005 |
| Potassium dichromate*   | 7778-50-9                            | 231-906-6                     | N.D.             | 0.005 |
| Sodium chromate*  | 7775-11-3                            | 231-889-5                     | N.D.             | 0.005 |
| Sodium dichromate*  | 7789-12-0<br>and<br>10588-01-9       | 234-190-3                     | N.D.             | 0.005 |
| Tetraboron disodium heptaoxide, hydrate*  | 12267-73-1                           | 235-541-3                     | N.D.             | 0.005 |
| Trichloroethylene   | 79-01-6                              | 201-167-4                     | N.D.             | 0.050 |
| Triethyl arsenate*  | 15606-95-8                           | 427-700-2                     | N.D.             | 0.005 |
| Tris(2-chloroethyl)phosphate  | 115-96-8                             | 204-118-5                     | N.D.             | 0.050 |
| Zirconia Aluminosilicate Refractory Ceramic Fibres*   | 650-017-00-8<br>(Index no.)          | -                             | N.D.             | 0.005 |

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## Notes:

- (1). RL = Reporting Limit. All RL are based on homogenous material.  
N.D. = Not detected (lower than RL), N.D. is denoted on the target compound.
- (2). <sup>Δ</sup> CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -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](http://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 and potassium respectively), except molybdenum  
RL=0.0005%

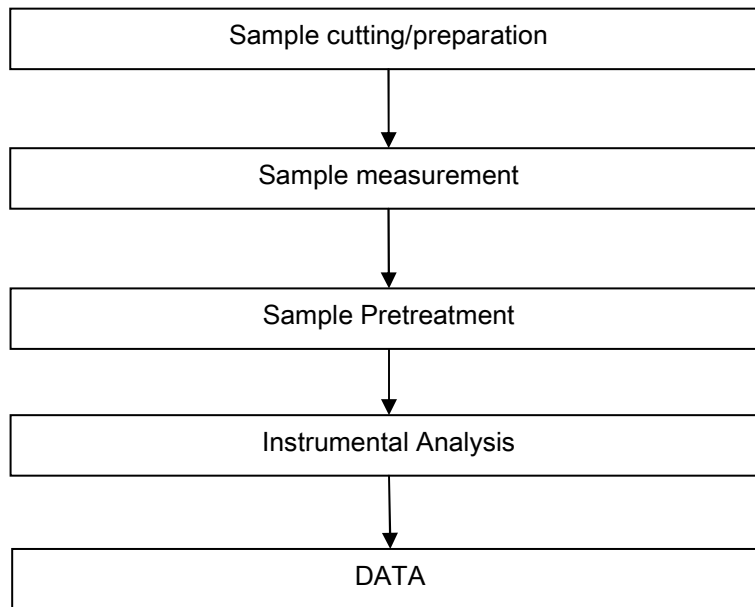
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## ATTACHMENTS

### SVHC Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang / Tina Zhao
- 2) Name of the person in charge of testing: Adams Yu / Ryan Yang



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