

Chemical Laboratory - Kao.,SGS Taiwan Ltd.

## TEST REPORT

PT. INDAH KIAT PULP & PAPER TBK.

JL. RAYA SERANG KM. 76, SERANG 42184 BANTEN-INDONESIA

REPORT NO.KE/2011/63249

DATE: 2011/07/11

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THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CLIENT AS :

|                            |                             |
|----------------------------|-----------------------------|
| <b>SAMPLE DESCRIPTION</b>  | : PAPER BOARD.              |
| <b>COLOR</b>               | : BROWN.                    |
| <b>PART NO.</b>            | : FLUTTING MEDIUM.          |
| <b>JOB NO.</b>             | : JKT-ML/HL/06/11/906.      |
| <b>ID NO.</b>              | : ML0611906-4289.           |
| <b>SAMPLE RECEIVED</b>     | : 2011/06/24.               |
| <b>TESTING PERIOD</b>      | : 2011/06/24 TO 2011/07/11. |
| <b>SAMPLE SUBMITTED BY</b> | : P.T. SGS INDONESIA.       |

--- PLEASE SEE THE NEXT PAGE FOR TEST RESULT(S) ---



*Jerry*

Jerry Tung / Supervisor  
Signed for and on behalf of  
SGS Taiwan Limited

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## TEST RESULT(S) :

| TEST ITEM(S)  | UNIT               | METHOD  | MDL | SPEC  | RESULT | CONCL. |
|---|--------------------|---|-----|-------|--------|--------|
| BIS(2-ETHYLHEXYL)<br>PHTHALATE(DEHP)                | ppm                | ASTM-D3421  | 30  | ---   | n.d.   | ---    |
| MONO-2-ETHYLHEXYL<br>PHTHALATE(MEHP)                | ppm                | ASTM-D3421  | 30  | ---   | n.d.   | ---    |
| BUTYL BENZYL PHTHALATE(BBP)                         | ppm                | ASTM-D3421  | 30  | ---   | n.d.   | ---    |
| DIMETHYL PHTHALATE(DMP)                             | ppm                | ASTM-D3421  | 30  | ---   | n.d.   | ---    |
| DIBUTYL PHTHALATE(DBP)                              | ppm                | ASTM-D3421  | 30  | ---   | n.d.   | ---    |
| <b>PERFLUOROOCETANESULFONATE<br/>(PFOS) CONTENT</b> | ---                | ---   | --- | ---   | ---    | ---    |
| PFOS - ACID<br>PFOS - METAL SALT                    | µg/m <sup>2</sup>  | SOLVENT EXTRACTION<br>ANALYSIS WAS PERFORMED<br>BY LC/MS  | 1   | ---   | n.d.   | ---    |
| PFOS - AMIDE  | µg/m <sup>2</sup>  | SOLVENT EXTRACTION<br>ANALYSIS WAS PERFORMED<br>BY LC/MS  | 1   | ---   | n.d.   | ---    |
| <b>SUM OF PFOS DERIVATIVES</b>                      | µg/m <sup>2</sup>  | ---   | --- | <1.00 | 0      | PASS   |
| PERFLUOROOCETANOIC ACID<br>(PFOA)                   | µg/m <sup>2</sup>  | SOLVENT EXTRACTION<br>ANALYSIS WAS PERFORMED<br>BY LC/MS  | 1   | ---   | n.d.   | ---    |
| EXTRACTABLE FORMALDEHYDE                            | mg/dm <sup>2</sup> | WITH REFERENCE TO EN<br>645:1993 (COLD WATER<br>EXTRACTION), FOLLOWED<br>BY ANALYSIS WITH<br>REFERENCE TO EN<br>1541:2001 | 0.1 | ---   | n.d.   | ---    |
| DIMETHYL FUMARATE                                   | ppm                | SOLVENT EXTRACTION<br>GC/MS ANALYSIS  | 0.1 | ---   | n.d.   | ---    |
| POLYVINYL CHLORIDE(PVC)                             | ---                | BEILSTEIN TEST  | --- | ---   | n.d.   | ---    |
| <b>AZO DYES</b>                                     | ---                | ---   | --- | ---   | ---    | ---    |
| 1):4-AMINOBIHENYL<br>(CAS NO.92-67-1)               | ppm                | BS EN 14362-1   | 3   | <30.0 | n.d.   | PASS   |

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|---|------|---------------|-----|-------|--------|--------|
| 2):BENZIDINE<br>(CAS NO.92-87-5)                                  | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 3):4-CHLORO-O-TOLUIDINE<br>(CAS NO.95-69-2)                       | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 4):2-NAPHTHYLAMINE<br>(CAS NO.91-59-8)                            | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 5):O-AMINOAZOTOLUENE<br>(CAS NO.97-56-3)                          | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 6):5-NITRO-O-TOLUIDINE<br>(CAS NO.99-55-8)                        | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 7):4-CHLOROANILINE<br>(CAS NO.106-47-8)                           | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 8):4-METHOXY-M-<br>PHENYLENEDIAMINE<br>(CAS NO.615-05-4)          | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 9):4,4'-<br>DIAMINODIPHENYLMETHANE<br>(CAS NO.101-77-9)           | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 10):3,3'-DICHLOROBENZIDINE<br>(CAS NO.91-94-1)                    | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 11):3,3'-DIMETHOXYBENZIDINE<br>(CAS NO.119-90-4)                  | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 12):3,3'-DIMETHYLBENZIDINE<br>(CAS NO.119-93-7)                   | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 13):4,4'-METHYLENEDI-O-<br>TOLUIDINE<br>(CAS NO.838-88-0)         | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 14):P-CRESIDINE<br>(CAS NO.120-71-8)                              | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 15):4,4'-METHYLENE-BIS-<br>(2-CHLOROANILINE)<br>(CAS NO.101-14-4) | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |
| 16):4,4'-OXYDIANILINE<br>(CAS NO.101-80-4)                        | ppm  | BS EN 14362-1 | 3   | <30.0 | n.d.   | PASS   |

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|---|------|------------------------|-----|-------|--------|--------|
| 17):4,4'-THIODIANILINE<br>(CAS NO.139-65-1)             | ppm  | BS EN 14362-1          | 3   | <30.0 | n.d.   | PASS   |
| 18):O-TOLUIDINE<br>(CAS NO.95-53-4)                     | ppm  | BS EN 14362-1          | 3   | <30.0 | n.d.   | PASS   |
| 19):4-METHYL-M-<br>PHENYLENEDIAMINE<br>(CAS NO.95-80-7) | ppm  | BS EN 14362-1          | 3   | <30.0 | n.d.   | PASS   |
| 20):2,4,5-TRIMETHYLANILINE<br>(CAS NO.137-17-7)         | ppm  | BS EN 14362-1          | 3   | <30.0 | n.d.   | PASS   |
| 21):O-ANISIDINE<br>(CAS NO.90-04-0)                     | ppm  | BS EN 14362-1          | 3   | <30.0 | n.d.   | PASS   |
| 22):4-AMINOAZOBENZENE<br>(CAS NO.60-09-3)               | ppm  | LFGB §64 BVL B 82.02-9 | 3   | <30.0 | n.d.   | PASS   |
| 23):2,4-XYLIDINE<br>(CAS NO.95-68-1)                    | ppm  | BS EN 14362-1          | 3   | <30.0 | n.d.   | PASS   |
| 24):2,6-XYLIDINE<br>(CAS NO.87-62-7)                    | ppm  | BS EN 14362-1          | 3   | <30.0 | n.d.   | PASS   |

NOTE 1 : mg/kg=ppm

NOTE 2 : MDL = METHOD DETECTION LIMIT.

NOTE 3 : n.d. = Not Detected.

NOTE 4 : THE TEST(S) WAS/WERE SUBCONTRACTED TO SGS TAIWAN.

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### SAMPLE PHOTO KE/2011/63249



**\*\* END OF REPORT \*\***

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