



**TEST REPORT**

NUMBER: SHAH0019627615

APPLICANT: HANGZHOU SUNSHINE CHEMICALS CO.,  
LTD.  
PENG GONG, YUHANG DISTRICT,  
HANGZHOU, ZHEJIANG, CHINA  
ATTN: XU XIAO HONG

DATE: JUN 02, 2010

**SAMPLE DESCRIPTION:**

TWO(2) SUBMITTED SAMPLES SAID TO BE :

**DYESTUFF**

**(1A) YELLOW BROWN POWDER (LEVAT YELLOW PA) ;**

**FABRIC IN**

**(1B) YELLOW (DYED WITH LEVAT YELLOW PA, O.W.F.: 3%) .**

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**TESTS CONDUCTED:**

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

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TO BE CONTINUED

PREPARED AND CHECKED BY:  
FOR INTERTEK TESTING SERVICES  
LTD., SHANGHAI

MYRA LV  
CHEMICAL DIVISION MANAGER

AUTHORIZED BY:  
FOR INTERTEK TESTING SERVICES  
LTD., SHANGHAI

STEPHEN TSANG  
GENERAL MANAGER

**TEST REPORT**

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TESTS CONDUCTED

1 DETECTION OF AMINES IN DYESTUFF (AZO)

WITH REFERENCE TO AZOCOLLOURANTS CONTENT REQUIREMENT IN ANNEX XVII  
 ITEM 43 OF THE REACH REGULATION (EC) NO. 1907/2006 & AMENDMENT  
 NO. 552/2009 (FORMERLY KNOWN AS DIRECTIVE 2002/61/EC), DETECTED BY  
 GAS CHROMATOGRAPHIC-MASS SPECTROMETRIC (GC-MS) AND HIGH PERFORMANCE  
 LIQUID CHROMATOGRAPHIC (HPLC-DAD) ANALYSIS.

|     | <u>FORBIDDEN AMINE</u>                        | <u>CAS NO.</u> | <u>RESULT</u><br>(1A) |
|-----|-----------------------------------------------|----------------|-----------------------|
| 1.  | 4-AMINODIPHENYL                               | 92-67-1        | N                     |
| 2.  | BENZIDINE                                     | 92-87-5        | N                     |
| 3.  | 4-CHLORO-O-TOLUIDINE                          | 95-69-2        | N                     |
| 4.  | 2-NAPHTHYLAMINE                               | 91-59-8        | N                     |
| 5.  | O-AMINOAZOTOLUENE                             | 97-56-3        | N                     |
| 6.  | 2-AMINO-4-NITROTOLUENE                        | 99-55-8        | N                     |
| 7.  | P-CHLOROANILINE                               | 106-47-8       | N                     |
| 8.  | 2,4-DIAMINOANISOLE                            | 615-05-4       | N                     |
| 9.  | 4,4'-DIAMINODIPHENYLMETHANE                   | 101-77-9       | N                     |
| 10. | 3,3'-DICHLOOROBENZIDINE                       | 91-94-1        | N                     |
| 11. | 3,3'-DIMETHOXYBENZIDINE                       | 119-90-4       | N                     |
| 12. | 3,3'-DIMETHYLBENZIDINE                        | 119-93-7       | N                     |
| 13. | 3,3'-DIMETHYL-<br>4,4'-DIAMINODIPHENYLMETHANE | 838-88-0       | N                     |
| 14. | P-CRESIDINE                                   | 120-71-8       | N                     |
| 15. | 4,4'-METHYLENE-BIS (2-CHLOROANILINE)          | 101-14-4       | N                     |
| 16. | 4,4'-OXYDIANILINE                             | 101-80-4       | N                     |
| 17. | 4,4'-THIODIANILINE                            | 139-65-1       | N                     |
| 18. | O-TOLUIDINE                                   | 95-53-4        | N                     |
| 19. | 2,4-TOLUYLENEDIAMINE                          | 95-80-7        | N                     |
| 20. | 2,4,5-TRIMETHYLANILINE                        | 137-17-7       | N                     |
| 21. | O-ANISIDINE                                   | 90-04-0        | N                     |
| 22. | 4-AMINOAZOBENZENE                             | 60-09-3        | N                     |
| 23. | 2,4-XYLIDINE                                  | 95-68-1        | N                     |
| 24. | 2,6-XYLIDINE                                  | 87-62-7        | N                     |

REMARK : N = NOT DETECTED

DETECTION LIMIT = 10 ppm

ppm = PARTS PER MILLION = mg/kg

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TO BE CONTINUED

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TESTS CONDUCTED

2 EXTRACTABLE HEAVY METALS

WITH REFERENCE TO (ISO 105-E04), BY INDUCTIVELY COUPLED ARGON PLASMA (ICP) AND UV-VISIBLE SPECTROPHOTOMETRY ANALYSIS.

| <u>ELEMENT</u>           | <u>RESULT (ppm)</u> |
|--------------------------|---------------------|
|                          | (1B)                |
| SOL. ANTIMONY (Sb)       | <1.0                |
| SOL. ARSENIC (As)        | <0.1                |
| SOL. LEAD (Pb)           | <0.1                |
| SOL. CADMIUM (Cd)        | <0.03               |
| SOL. MERCURY (Hg)        | <0.01               |
| SOL. COPPER (Cu)         | <1.0                |
| SOL. CHROMIUM (Cr-TOTAL) | <0.5                |
| SOL. CHROMIUM VI (CrVI)  | ND (<0.5)           |
| SOL. COBALT (Co)         | <0.3                |
| SOL. NICKEL (Ni)         | <0.3                |

REMARK : SOL. = SOLUBLE

< = LESS THAN

ND = NOT DETECTED

ppm = PARTS PER MILLION = mg/kg

DETECTION LIMIT FOR Cr(VI) = 0.5 ppm

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TO BE CONTINUED



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TESTS CONDUCTED

3 FORMALDEHYDE CONTENT

WITH WATER EXTRACTION. BY HIGH PERFORMANCE LIQUID  
CHROMATOGRAPHIC (HPLC) ANALYSIS.

TESTED SAMPLE  
(1A)

RESULT (ppm)  
< 5.0

REMARK: ppm = PARTS PER MILLION = mg/kg  
< = LESS THAN  
DETECTION LIMIT = 5 ppm

DATE SAMPLE RECEIVED: MAY 21, 2010

TESTING PERIOD : MAY 21, 2010 TO MAY 26, 2010

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END OF REPORT