

Test Report

No. SH8000955-1/CHEM

Date: Feb. 2, 2008

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CHANGSHU HEDIAN CULTURE AND STATIONERY MANUFACTURING CO., LTD
HEDIAN INDUSTRIAL AREA MOCHENG TOWN CHANGSHU CITY

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SH8000955/CHEM DATE: 2008/01/12

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

Sample Name : BLACK INK
SGS Ref No. : SHD2801718

Sample Receiving Date : Jan.03, 2008
Testing Period : Jan.03 – 11, 2008

Test Requested : As specified by client, the specified material

- 1) To determine Colorants in the submitted sample.
- 2) To determine Primary Aromatic Amines in the submitted sample.
- 3) To determine Preservatives (other than Wood Preservatives) in the submitted sample.
- 4) To determine pH Value in the submitted sample.
- 5) Toxicity classification in accordance with Safety of Toys, EN 71 Part 9:2005 – Organic Chemical Compounds – Requirements Clause 4.2 Liquids in Toys. In accordance with Safety of Toys, EN 71 Part 9:2005 – Organic Chemical Compounds – Requirements.

Test Method : 1)~3) Sample preparation with reference to EN71-10 followed by analysis with reference to EN71-11.
4) With reference to ISO 787/9 and EN71-9, Analysis was performed by pH meter.

Test Results : Please refer to next page

Signed for and on behalf of
SGS-CSTC Chemical Laboratory



Ella Zhang
Section Manager

Signed for and on behalf of
SGS-CSTC Chemical Laboratory



Sandy Hao
Lab Manager

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Test results by chemical method

1) Colorants (Unit: mg/kg)

Test items	CAS Number	Method (refer to)	1	DL	Limit
Disperse Blue 1	2475-45-8	(1)	ND	6	10
Disperse Blue 3	2475-46-9		ND	6	10
Disperse Blue 106	12223-01-7		ND	6	10
Disperse Blue 124	61951-51-7		ND	6	10
Disperse Yellow 3	2832-40-8		ND	6	10
Disperse Orange 3	730-40-5		ND	6	10
Disperse Orange 37/76	12223-33-5 13301-61-6		ND	6	10
Disperse Red 1	2872-52-8		ND	6	10
Solvent Yellow 1	60-09-3		ND	6	10
Solvent Yellow 2	60-11-7		ND	6	10
Solvent Yellow 3	97-56-3		ND	6	10
Basic Red 9	569-61-9		ND	6	10
Basic Violet 1	8004-87-3		ND	6	10
Basic Violet 3	548-62-9		ND	6	10
Acid Red 26	3761-53-3		ND	6	10
Acid Violet 49	1694-09-3		ND	6	10

Note: (1) ND = Not detected (<DL)
(2) mg/kg = milligram per kilogram

2) Primary Aromatic Amines (Unit: mg/kg)

Test items	CAS Number	Method (refer to)	1	DL	Limit
Benzidine	92-87-5	(2)	ND	2	5
2-Naphthylamine	91-59-8		ND	2	5
4-Chloroaniline	106-47-8		ND	2	5
3,3'-Dichlorobenzidine	91-94-1		ND	2	5
3,3'-Dimethoxybenzidine	119-90-4		ND	2	5
3,3'-Dimethylbenzidine	119-93-7		ND	2	5
o-Toluidine	95-53-4		ND	2	5
2-Methoxyaniline (o-Anisidine)	90-04-0		ND	2	5
Aniline	62-53-3		ND	2	5

Note: (1) ND = Not detected (<DL)
(2) mg/kg = milligram per kilogram

3) Preservatives (other than Wood Preservatives) (Unit: mg/kg)

Test items	CAS Number	Method (refer to)	1	Limit
Phenol	108-95-2	(3)	< 10	10
1,2-Benzylisothiazolin-3-one	2634-33-5		< 4	5
2-Methyl-4-isothiazolin-3-one	2682-20-4		< 5	10
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4		< 5	10
5-Chloro-2-methyl-4-isothiazolin-3-one + 2-methyl-4-isothiazolin-3-one	--		< 10	15
Formaldehyde (free)	50-00-0		< 400	500

Note: (1) < = less than
 (2) mg/kg = milligram per kilogram

4) pH Value

Item	Method (refer to)	1	Limit
pH Value	(4)	7.6	3.0~10.0

5) Toxicity classification

Clause	Description	Results
4	General requirements	1
4.2	Liquid in Toys	
4.2.1	Toys shall not contain accessible liquids classified in accordance with Directive 1999/45/EC as very toxic, toxic, harmful, corrosive, irritant or sensitizing; and accessible liquids shall not contain substances that are classified as carcinogenic, mutagenic or toxic to reproduction, category 1 or 2. As a derogation, liquids present as ink supplied in writing instruments may be classified 'R36 Irritating to eyes'.	Pass
4.2.2	Accessible liquids in toys shall not have a pH of less than 3.0 or greater than 10.0 when tested in accordance with EN ISO 787-9.	See pH testing result
4.2.3	Toys shall not contain liquids classified in accordance with Directive 1999/45/EC as 'R65 Harmful: may cause lung damage if swallowed'.	Pass

Test Part Description:

- Black ink

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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