

Test Report

No. SHATY1313149701

Date: 12 Jul 2013

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The following sample(s) was/were submitted and identified on behalf of the clients as :
FLUORESCENT MARKER INK

SGS Job No. : SHTY130700011560 - SH
Manufacturer :
Country of Origin :
Date of Sample Received : 05 Jul 2013
Testing Period : 05 Jul 2013 - 12 Jul 2013
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
EN71-3:2013 under European Directive 2009/48/EC-Migration of certain elements(for liquid or sticky toy material)	PASS

Signed for and on behalf of
SGS-CSTC Ltd.



Serena Wang
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA13-131497.001	Orange ink
2	SHA13-131497.002	Blue ink
3	SHA13-131497.003	Green ink
4	SHA13-131497.004	Yellow ink
5	SHA13-131497.005	Purple ink
6	SHA13-131497.006	Pink ink

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EN71-3:2013 under European Directive 2009/48/EC-Migration of certain elements(for liquid or sticky toy material)

Test Method : With reference to EN 71 Part 3:2013, analysis was performed by ICP-MS
Soluble Chromium (VI) was analyzed by IC-UV.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	3.4	mg/kg	0.5	ND	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.3	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	65	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Aluminum (Al)	1406	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
Soluble Organic Tin (expressed as Tin)	0.2	mg/kg	0.08	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Chromium (VI)	0.005	mg/kg	0.005	ND	ND	ND
Soluble Lead (Pb)	3.4	mg/kg	0.5	ND	ND	ND
Soluble Antimony (Sb)	11.3	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	0.9	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	375	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	0.3	mg/kg	0.3	ND	ND	ND
Soluble Chromium (III) (Cr III)	9.4	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	1.9	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	9.4	mg/kg	5	ND	ND	ND
Soluble Boron (B)	300	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	2.6	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	300	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	1125	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	3750	mg/kg	0.08	ND	ND	ND
Soluble Zinc (Zn)	938	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	156	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	1406	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	18.8	mg/kg	10	ND	ND	ND
Soluble Organic Tin (expressed as Tin)	0.2	mg/kg	0.08	ND	ND	ND

Notes :

- (1) For sample 001~006, additional test on soluble chromium (III) & chromium (VI) was performed since soluble Cr result exceeded the limit of chromium (III) & chromium (VI)
- (2) Results shown are of the total weights of wet samples.

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Sample photo:



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