



Test Report

No.T51610193006TC

Date: APR 27, 2016

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XIAMEN LIVIYA CO., LTD.
NO.153 TONGAN AREA TONGAN CENTRALIZED
INDUSTRY ZONE XIAMEN 361100 CHINA

The following samples were submitted and identified by/on behalf of the client as:
THERMOSENSITIVE ERASABLE INK IN BLUE/RED/YELLOW/GREEN/PURPLE

Supplier : XIAMEN LIVIYA CO., LTD.
Manufacturer : XIAMEN LIVIYA CO., LTD.
Country of Origin : XIAMEN CHINA
Requested Age Grading : ABOVE 3 YEARS OLD
Sample Receiving Date : MAR 28, 2016
Further Information Date : APR 26, 2016
Testing Period : MAR 28, 2016 TO APR 26, 2016

Test Requested		Conclusion
1.	EN71 Part 9:2005 + A1:2007 – Organic Chemical Compounds – Requirement (1) Colorants (2) Primary Aromatic Amines (3) Preservatives (other than Wood Preservatives) (4) Clause 4.2 Liquids in Toys	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center Hardlines

Feng Shaohong, Jessica
Lab Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center Hardlines

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Results:
1. EN71 Part 9:2005 + A1:2007 – Organic Chemical Compounds – Requirements
1) Colorants

Method: With reference to EN71-10: 2005 and EN71-11: 2005

Analysis was performed by High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
Specimen No.	--	1	2		
Alias No.	--	1	1		
Tracing No.	--	1	2		
Disperse Blue 1	2475-45-8	ND	ND	2	10
Disperse Blue 3	2475-46-9	ND	ND	2	10
Disperse Blue 106	12223-01-7	ND	ND	2	10
Disperse Blue 124	61951-51-7	ND	ND	2	10
Disperse Yellow 3	2832-40-8	ND	ND	2	10
Disperse Orange 3	730-40-5	ND	ND	2	10
Disperse Orange 37/76	12223-33-5 13301-61-6	ND	ND	2	10
Disperse Red 1	2872-52-8	ND	ND	2	10
Solvent Yellow 1	60-09-3	ND	ND	2	10
Solvent Yellow 2	60-11-7	ND	ND	2	10
Solvent Yellow 3	97-56-3	ND	ND	2	10
Basic Red 9	569-61-9	ND	ND	2	10
Basic Violet 1	8004-87-3	ND	ND	2	10
Basic Violet 3	548-62-9	ND	ND	2	10
Acid Red 26	3761-53-3	ND	ND	2	10
Acid Violet 49	1694-09-3	ND	ND	2	10

Specimen Description:

1. Red ink + Yellow ink + Purple ink
2. Dark blue ink + Cyan ink

- Note:
- mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - The result(s) is (are) calculated using the total specimen weight for composite test.



2) Primary Aromatic Amines

Method: With reference to EN71-10: 2005 and EN71-11: 2005

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
		1	2		
Specimen No.	--	1	2		
Alias No.	--	2	2		
Tracing No.	--	1	2		
Benzidine	92-87-5	ND	ND	2	5
2-Naphthylamine	91-59-8	ND	ND	2	5
4-Chloroaniline	106-47-8	ND	ND	2	5
3,3'-Dichlorobenzidine	91-94-1	ND	ND	2	5
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	2	5
3,3'-Dimethylbenzidine	119-93-7	ND	ND	2	5
o-Toluidine	95-53-4	ND	ND	2	5
2-Methoxyaniline (o-Anisidine)	90-04-0	ND	ND	2	5
Aniline	62-53-3	ND	ND	2	5

Specimen Description:

1. Red ink + Yellow ink + Purple ink
2. Dark blue ink + Cyan ink

- Note:
- mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - The result(s) is (are) calculated using the total specimen weight for composite test.



3) Preservatives (other than Wood Preservatives)

Method: With reference to EN71-10: 2005 and EN71-11: 2005

Analysis was performed by High Performance Liquid Chromatography with Diode Array Detector (HPLC-DAD)

Test Item(s)	CAS No.	Result(s) (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
		1	2	3	5	6		
Specimen No.	--	1	2	3	5	6		
Alias No.	--	3	3	3	3	3		
Tracing No.	--	1	2	3	5	6		
Phenol	108-95-2	8	ND	6	ND	ND	5	10
1,2-Benzylisothiazolin-3-one	2634-33-5	ND	ND	ND	ND	ND	5	5
2-Methyl-4-isothiazolin-3-one	2682-20-4	ND	ND	ND	ND	ND	5	10
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	ND	ND	ND	ND	ND	5	10
5-Chloro-2-methyl-4-isothiazolin-3-one + 2-methyl-4-isothiazolin-3-one	--	ND	ND	ND	ND	ND	--	15
Formaldehyde (free)	50-00-0	ND	ND	ND	ND	ND	150	500

Specimen Description:

1. Red ink
2. Yellow ink
3. Purple ink
4. Dark blue ink
5. Cyan ink

- Note:
- mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - Results shown as ND are ignored in the sum calculation



4) Liquids in Toys

Clause	Description	Result(s)		
		1	2	3
4	General requirements			
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	Pass	Pass
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	Pass	Pass

Clause	Description	Result(s)	
		4	5
4	General requirements		
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	Pass
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	Pass

Specimen Description:

1. Red ink
2. Yellow ink
3. Purple ink
4. Dark blue ink
5. Cyan ink



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Shenzhen Branch Testing Center Hardlines

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