

Applicant: JIN SHEU ENTERPRISE CO., LTD.
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TAIWAN
Attn: HEIDI

Date: Mar 14, 2018

Sample Description:

One (1) piece of submitted sample said to be Mixture ink for lanyard printing material.

Standard : --
Buyer's Name : WORLD WIDE
Colour : --
Vendor : WORLD WIDE
Manufacturer : CHINA
Supplier : CHINA
Style No./Name : --
P.O. No. : --
Ref. : MIXTURE INK FOR LANYARD PRINTING
AGE RANGE: 3+
Country Of Origin : MADE IN CHINA
Goods Exported To : WORLD WIDE
Date Received/Date Test Started : Refer To Following Remark
Date Final Information Confirmed: --

Conclusion:

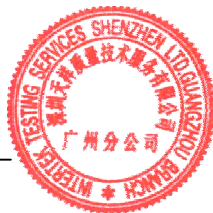
<u>Index</u>	<u>Test Item</u>	<u>Result</u>
1.	◇ 19 Toxic Element Migration Test	Meet Applicant's Requirement
2.	◇ Toxic Elements Analysis	Meet Applicant's Requirement
3.	◇ Soluble Lead Content Test	Pass

Remark: ◇ = No Sample Is Submitted For Testing, All Test Results Are Referred To Previous Report GZHT90769670 Dated Feb 08, 2018.

Should you have any query on this report, you may contact at gzfootwear@intertek.com

Authorized By:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch

Huang Ning, Andy
Assistant General Manager



1 19 Toxic Element Migration Test

With Reference To EN71-3:2013+A1:2014 And Followed By Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES)

Category (III): Scraped-Off Toy Material

Element	Result (Mg/Kg)			Limit (Mg/Kg)
Aluminium (Al)		< 300		70000
Antimony (Sb)		< 10		560
Arsenic (As)		< 10		47
Barium (Ba)		102		18750
Boron (B)		< 50		15000
Cadmium (Cd)		< 5		17
Chromium (III) (Cr III) ⁺⁺		< 10		460
Chromium (VI) (Cr VI) ⁺⁺		< 0.1		0.2
Cobalt (Co)		< 10		130
Copper (Cu)		< 10		7700
Lead (Pb)		< 10		160
Manganese (Mn)		< 10		15000
Mercury (Hg)		< 10		94
Nickel (Ni)		< 10		930
Selenium (Se)		< 10		460
Strontium (Sr)		< 100		56000
Tin (Sn)		< 10		180000
Organic Tin ⁺⁺		< 3.0		12
Zinc (Zn)		< 100		46000

Remark : Mg/Kg = Milligram Per Kilogram

⁺⁺ = Unless The Test Results Were Marked With "#" Or "Δ", Chromium (III) & Chromium (VI) And Organic Tin Contents Were Not Directly Determined And Were Derived From Migration Results Of Total Chromium And Tin Respectively.

- Organic Tin Test Result Was Expressed As Tributyl Tin.

Tested Components : Mixture Ink.

Comment:

When Tested As Specified, The Screening Cr / Tin Content Exceeded The Cr(VI) Limit / Organic Tin Limit Of The EN71-3 : 2013+A1:2014 On The Safety Of Toys. However, As Requested By The Applicant, Cr(VI) / Organic Tin Confirmation Test Was Not Conducted On The Submitted Sample.

2 Toxic Elements Analysis

With Reference To Section 4.3.5 Of The ASTM Standard Consumer Safety Specification On Toy Safety ASTM F 963-16, Acid Digestion And Extraction Methods Were Used And Toxic Elements Content Were Determined By Inductively Coupled Argon Plasma Spectrometry.

	<u>Result In ppm</u>	<u>Applicant's Limit In ppm</u>
Sol. Barium (Ba)	102	1000
Sol. Lead (Pb)	ND	90
Sol. Cadmium (Cd)	ND	75
Sol. Antimony (Sb)	ND	60
Sol. Selenium (Se)	ND	500
Sol. Chromium (Cr)	ND	60
Sol. Mercury (Hg)	ND	60
Sol. Arsenic (As)	ND	25

The Sample Weight In Bracket(S) Was/Were For Soluble Toxic Elements Analysis Only.

Remark: Sol. = Soluble
ND = Not detected
Detection limit = 10 ppm
ppm = Parts Per Million

Tested Components : Mixture Ink.

3 Soluble Lead Content Test

Test Method: Japan Toy Safety Standard 2012 Part 3 Chemical Properties Clause 2.7, 2.12, Acid Extraction Method Was Used And Soluble Lead Content Was Determined By Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Sample/ Component</u>	<u>Result (mg/kg)</u>	<u>Requirement (mg/kg)</u>
	< 5	90

Remark: mg/kg = milligram per kilogram

Tested Components: Mixture Ink.

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