Test Report Number: GZHT90589288

Applicant: DONGGUAN JIAN PLASTIC & METAL PRODUCTS LTD.
NO.3-1, SOUTH GAOBU BLVD
GAOBU, DONGGUAN, CHINA
ZIP CODE: 523278
Attn: EMMY

Date: Mar 16, 2016

Sample Description:
One (1) piece of submitted sample said to be Dark Green mixture ink

Standard	:	--
Ref. No.	:	--
P.O. No.	:	--
Buyer's Name	:	World Wide
Vendor	:	World Wide
Supplier	:	CHINA
Manufacturer	:	CHINA
Ref.	:	MIXTURE INK FOR SILICONE PAINT AND PRINTING AGE RANGE: 3+
Country Of Origin	:	MADE IN CHINA
Goods Exported To	:	World Wide
Date Received/Date Test Started	:	Mar 01, 2016
Date Final Information Confirmed	:	Mar 15, 2016

Conclusion:

Index	Test Item	Result
1.	Soluble Lead Content Test on Metal Toy Accessories	Pass
2.	Heavy Elements Analysis	Pass
3.	Toxic Element Migration Test (19)	Pass

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

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

Huang Ning, Andy
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1 Soluble Lead Content Test on Metal Toy Accessories

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.

Result (mg/kg)	Requirement (mg/kg)
< 5	90

Remark: mg/kg = milligram per kilogram

Tested Component: Dark Green Mixture Ink.

2 Heavy Elements Analysis

With reference to Section 4.3.5.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11, acid extraction method was used and heavy elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

	Result in ppm	Limit ppm
Sol. Barium (Ba)	< 5	1000
Sol. Lead (Pb)	< 5	90
Sol. Cadmium (Cd)	< 5	75
Sol. Antimony (Sb)	< 5	60
Sol. Selenium (Se)	< 5	500
Sol. Chromium (Cr)	< 5	60
Sol. Mercury (Hg)	< 5	60
Sol. Arsenic (As)	< 2.5	25

Sol. = Soluble
ppm = parts per million
Tested Component: Dark Green Mixture Ink.

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3 Toxic Element Migration Test (19)

With Reference To EN71-3:2013 And Followed By Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES) and/or Inductively Coupled Plasma Mass Spectrometry (ICP/MS).

Category (III): Scraped-off toy material

Element	Result (mg/kg)	Applicant's Limit (mg/kg)
Aluminium (Al)	< 300	70000
Antimony (Sb)	< 10	560
Arsenic (As)	< 10	47
Barium (Ba)	< 10	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.
	- As per General Court of the European Union Judgment in Case T-198/12 dated 14 May 2014, the General Court confirmed that Germany could maintain its limit value for Lead(Pb)(90mg/kg) in toys but not for Antimony (Sb), Arsenic (As), Mercury (Hg) and Barium (Ba).

Tested Component: Dark Green Mixture Ink.

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