



CONSUMER PRODUCTS SERVICES DIVISION

## NINGBO VIGA INTERNATIONAL CO.,LTD

**Technical Report:** (9018)016-0155  
**Date Received:** JAN 16, 2018

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TERRY HE  
NINGBO VIGA INTERNATIONAL CO.,LTD  
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Sample Description:	CREATIVE PUZZLE-INSECT	Sample Size:	1 STYLE × 3 SETS
Vendor:	N/A	Style No(s):	50150
Manufacturer:	N/A	SKN/SKU No.:	N/A
Buyer:	N/A	PO No.:	AI701
Labeled Age Grade:	N/A	Ref #:	N/A
Appropriate Age Grade:	N/A	Assortment No.:	N/A
Client Specified Age Grade:	18M+		
Tested Age Grade:	OVER 18 MOUTHS OF AGE	Country of Destination:	ZIMBABWE
Country of Origin:	CHINA	Color:	N/A
UPC Code:	6934510501501		

### EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The migration of certain elements in Category III - Scraped off toy material requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2013+A1:2014.

Note:

1. As per client's request, the results of certain elements requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2013+A1:2014 for the sample identity < Brown square wood > was referred to Technical Report No. (9018)016-0161, dated JAN 23, 2018.

### BVCPS (SHANGHAI)-QINGDAO BRANCH CONTACT INFORMATION FOR THIS REPORT

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**RESULTS:**

**MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013 + A1: 2014 )**

Test Method : European Standard EN 71 Part 3: 2013 + A: 2014, Annex E.

Class: **Category III - Scraped off toy material**

Sample Identity	Description	Location	Style
A.	White coating on wood	Label	/
B.	Colourful coating on paper	Puzzle	/
C.	Brown square wood	The frame/puzzle	/
D.	White paper with glue without coating	Puzzle	/



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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)					
		Sample ID					
		A.	B.	C.	D.		
Aluminium (Al)	70000	LT 7000	LT 7000	LT 7000	LT 7000		
Arsenic (As)	47	LT 4.7	LT 4.7	LT 4.7	LT 4.7		
Boron (B)	15000	LT 1500	LT 1500	LT 1500	LT 1500		
Barium (Ba)	18750	LT 1875	LT 1875	LT 1875	LT 1875		
Cadmium (Cd)	17	LT 1.7	LT 1.7	LT 1.7	LT 1.7		
Cobalt (Co)	130	LT 13	LT 13	LT 13	LT 13		
Chromium III (Cr III)	460	LT 0.2	LT 0.2	LT 0.2	LT 0.2		
Chromium VI (Cr VI)	0.2						
Copper (Cu)	7700	LT 770	LT 770	LT 770	LT 770		
Mercury (Hg)	94	LT 9.4	LT 9.4	LT 9.4	LT 9.4		
Manganese (Mn)	15000	LT 1500	LT 1500	LT 1500	LT 1500		
Nickel (Ni)	930	LT 93	LT 93	LT 93	LT 93		
Lead (Pb)	160	LT2.3	LT2.3	LT2.3	LT2.3		
Antimony (Sb)	560	LT 56	LT 56	LT 56	LT 56		
Selenium (Se)	460	LT 46	LT 46	LT 46	LT 46		
Tin (Sn)	180000	LT 18000	LT 18000	LT 18000	LT 18000		
Organic tin	12	LT 12	LT 12	LT 12	LT 12		
Strontium (Sr)	56000	LT 5600	LT 5600	LT 5600	LT 5600		
Zinc (Zn)	46000	LT 4600	LT 4600	LT 4600	LT 4600		
Mass of trace amount (gram)		-	-		-		
Conclusion		Pass	Pass	Pass	Pass		

mg/kg = milligrams per kilogram (ppm=parts per million) LT = Less Than

\* = Average of duplicate analysis

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

# = Verified results (see note)

**Remark:**

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

**Note:**

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: In house Ion-chromatography analysis
- Organic tin: EN71 part 3: 2013 + A: 2014, Annex G by Gas Chromatography – Mass Spectroscopy analysis.



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**RESULTS:**

**EXHIBIT # 1**



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End of report