



**BUREAU
VERITAS**

CONSUMER PRODUCTS SERVICES DIVISION

THAICOLOR CLAY CO., LTD.

Technical Report: (1215)114-0006
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THAICOLOR CLAY CO., LTD.
MS NASINANDA
175/1 MOO.1, KAERAI, KRATHUMBAN,
SAMUTSAKORN 74110 THAILAND

Sample Description:	FLOATING CLAY	Sample Size:	/
Vendor:	/	VPN:	/
Manufacturer:	/	SKN/SKU No.:	FLOATING CLAY
Buyer:	/	PO No.:	/
Labeled Age Grade:	/	Ref #:	/
Appropriate Age Grade:	/	Country of Origin:	/
Client Specified Age Grade:	/	Assortment No.:	/
Tested Age Grade:	/	Department No.:	/
UPC Code:	/	Item #:	/
Phase of Production:	/	Date of Production:	/
Color:	/	Model/Style#:	/
Program:	/	Country of Destination:	/
Previous No:	/		

EXECUTIVE SUMMARY:

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

- The Migration of Certain Elements – European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 12 with Amendments up to European Commission Directive 2012/7/EU.


BUREAU VERITAS CPS SDN BHD

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TEST RESULT(S):

Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with Amendments up to European Commission Directive 2012/7/EU

Test Method : European Standard EN 71 Part 3: 2013, Section 8.

Test Item(s)	Item / Component Description(s)	Location(s)
I001	Red + White + Yellow Clay	-
I002	Blue + Black Clay	-

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Dry, brittle, powder-like or pliable toy material
	Type II	Liquid or sticky toy material
	Type III	Scraped-off toy material

-	Unit	Req.	Result	
Test Item(s)	-	-	I001	I002
Type	-	I	I	I
Parameter	-	-	-	-
Mass of Trace Amount	g	-	-	-
Aluminium (Al)	mg/kg	5625	ND	ND
Antimony (Sb)	mg/kg	45	ND	ND
Arsenic (As)	mg/kg	3.8	ND	ND
Barium (Ba)	mg/kg	1000	ND	ND
Boron (B)	mg/kg	1200	ND	ND
Cadmium (Cd)	mg/kg	1.3	ND	ND
Chromium III (Cr III)	mg/kg	37.5	ND	ND
Chromium VI (Cr VI)	mg/kg	0.02	ND	ND
Cobalt (Co)	mg/kg	10.5	ND	ND
Copper (Cu)	mg/kg	622.5	ND	ND
Lead (Pb)	mg/kg	13.5	ND	ND
Manganese (Mn)	mg/kg	1200	ND	ND
Mercury (Hg)	mg/kg	7.5	ND	ND
Nickel (Ni)	mg/kg	75	ND	ND
Selenium (Se)	mg/kg	37.5	ND	ND
Strontium (Sr)	mg/kg	4500	ND	ND
Tin (Sn)	mg/kg	15000	ND	ND
Organic tin	mg/kg	0.9	ND	ND
Zinc (Zn)	mg/kg	3750	ND	ND
Conclusion	-	-	PASS	PASS

Note / Key :

ND = Not detected ">" = Greater than Req. = Requirement
 NR = Not requested g = gram(s) INCON. = Inconclusive
 mg/kg = milligram(s) per kilogram = ppm = part(s) per million
 [] = Detection Limit by Ion Chromatography Analysis
 { } = Detection Limit by prEN 71 Part 3: 2012, Annex F.3

Detection Limit (mg/kg) :

For Type I - Al : 562.5; Sb : 4.5; As : 0.38; Ba : 150; B : 120; Cd : 0.13; Cr III : 3.75; Cr VI : 0.002 [0.001];
 Co : 1.05; Cu : 62.25; Pb : 0.2; Mn : 120; Hg : 0.75; Ni : 7.5; Se : 3.75; Sr : 450; Sn : 1 500;
 Organic tin : 0.09 {0.04}; Zn : 37.5
 For Type II - Al : 140.6; Sb : 11.3; As : 0.09; Ba : 37.5; B : 30; Cd : 0.03; Cr III : 0.94; Cr VI : 0.0005 [0.001];
 Co : 0.26; Cu : 15.6; Pb : 0.1; Mn : 30; Hg : 0.19; Ni : 1.88; Se : 0.94; Sr : 112.5; Sn : 375;
 Organic tin : 0.02 {0.04}; Zn : 93.8
 For Type III - Al : 7 000; Sb : 56; As : 4.7; Ba : 1 875; B : 1 500; Cd : 1.7; Cr III : 46; Cr VI : 0.02 [0.001]; Co : 13; Cu : 770; Pb : 4.7; Mn : 1 500; Hg : 9.4; Ni : 93; Se : 46; Sr : 5 600; Sn : 18 000;
 Organic tin : 1.2 {2};
 Zn : 4 600

Remark :

- 1 Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further specified.
- 2 Result(s) of organic tin was (were) reported by soluble tin content unless further specified.
- 3 The Experts group of Notified Bodies under the Safety of Toy Directive (NB-Toys) proposed to amend the maximum allowable limit of lead of European Parliament and Council Directive 2009/48/EC in particular regarding to Annex II, Part III, Point 13. See details in Comment.
- 4 Draft European Commission Regulation notified through World Trade Organization (WTO) dated on January 3, 2013 (With Notification Number G/TBT/N/EU/83) proposed to amend the maximum allowable limit of barium of European Parliament and Council Directive 2009/48/EC in particular regarding to Annex II, Part III, Point 13. See details in Comment.

Comment :

Proposals to amendment of European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 :			
-	Type I	Type II	Type III
Element(s)	Lead (Pb)		
Current	13.5 mg/kg	3.4 mg/kg	160 mg/kg
Proposed ^[a]	2mg/kg	0.5mg/kg	23mg/kg

^[a] denotes as this (these) maximum allowable limit(s) is (are) referenced from the draft European Commission Directive amending European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13, notified through World Trade Organization (WTO) dated on September 25, 2014 (With Notification Number G/TBT/N/EU/243).

