



THE LABORATORY  
AT THE BIRMINGHAM  
ASSAY OFFICE

P.O. BOX 151 NEWHALL STREET  
BIRMINGHAM B3 1SB ENGLAND

TELEPHONE: +44 (0)121 236 6951

FACSIMILE: +44 (0)121 236 3228

[www.theassayoffice.co.uk](http://www.theassayoffice.co.uk)

[testing@theassayoffice.co.uk](mailto:testing@theassayoffice.co.uk)

Bob Emptage  
Ecos Paints, Inc.  
2994 Fairforest  
Clevedale Road  
Spartanburg  
South Carolina  
SC 29301

### Test Report

Ref: 58085	Date work reported: 25 January 2012
Page: 1 of 3	Date work received: 16 January 2012

Method:	The procedures described in BS EN 71-3: 1995 incorporating Amendment No. 1 and Corrigendum No. 1, EN 71-3: 1994 inc. Amendment A1 – Specification for migration of certain metals
---------	---

#### Sample Description:

Sr No.	Test	Results
1	Sample 1	PASS
2	Sample 2	PASS
3	Sample 3	PASS
4	Sample 4	PASS
5	Sample 5	PASS
6	Sample 6	PASS
7	Sample 7	PASS
8	Sample 8	PASS
9	Sample 9	PASS
10	Sample 10	PASS
11	Sample 11	PASS
12	Sample 12	PASS
13	Sample 13	PASS
14	Sample 14	PASS
15	Sample 15	PASS
16	Sample 16	PASS

Measurement of migration of certain elements by ICP-OES analysis



FS 24058



0667

<b>Ref: 58085</b>	<b>Date work reported: 25 January 2012</b>
<b>Page: 2 of 3</b>	<b>Date work received: 16 January 2012</b>

<b>Clause</b>	<b>Test</b>
8.1	Coating of paints, varnish and similar coatings
8.2	Polymeric and similar materials, whether textile reinforced or not, but excluding other textile
8.3	Paper and paper board
8.4	Textile, whether natural or synthetic
8.5	Glass/Ceramic/Metallic Material
8.6	Other materials whether mass coloured or not
8.7	Material intended to leave trace
8.8	Pliable modelling materials, including modelling clays and gels
8.9	Paints, including finger paints and similar materials in solid or liquid form appearing as such in the toys

- All samples were adjusted to 1mol/l if kept for more than the working day.

**Materials Sampled (and sample weight if less than 100mg)**

<b>Sample No.</b>	<b>Description</b>	<b>Weight (mg)</b>
1	Sample 1 - Paint (Clause 8.1)	
2	Sample 2 - Paint (Clause 8.1)	
3	Sample 3 - Paint (Clause 8.1)	
4	Sample 4 - Paint (Clause 8.1)	
5	Sample 5 - Paint (Clause 8.1)	
6	Sample 6 - Paint (Clause 8.1)	
7	Sample 7 - Paint (Clause 8.1)	
8	Sample 8 - Paint (Clause 8.1)	
9	Sample 9 - Paint (Clause 8.1)	
10	Sample 10 - Paint (Clause 8.1)	27.220mg
11	Sample 11 - Paint (Clause 8.1)	
12	Sample 12 - Paint (Clause 8.1)	
13	Sample 13 - Paint (Clause 8.1)	
14	Sample 14 - Paint (Clause 8.1)	
15	Sample 15 - Paint (Clause 8.1)	
16	Sample 16 - Paint (Clause 8.1)	

<b>Ref: 58085</b>	<b>Date work reported: 25 January 2012</b>
<b>Page: 3 of 3</b>	<b>Date work received: 16 January 2012</b>

**Results:**

Element	Results (mg/kg) Corrected in accordance with clause 4.2										Limits mg/kg	Method
	1	2	3	4	5	6	7	8	9	~10		
Arsenic	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	25	ICP Technique
Mercury	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	60	ICP Technique
Selenium	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	500	ICP Technique
Barium	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1000	ICP Technique
Lead	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	90	ICP Technique
Antimony	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	60	ICP Technique
Chromium	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	60	ICP Technique
Cadmium	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	75	ICP Technique

**Results:**

Element	Results (mg/kg) Corrected in accordance with clause 4.2						Limits mg/kg	Method
	11	12	13	14	15	16		
Arsenic	<10	<10	<10	<10	<10	<10	25	ICP Technique
Mercury	<10	<10	<10	<10	<10	<10	60	ICP Technique
Selenium	<10	<10	<10	<10	<10	<10	500	ICP Technique
Barium	<20	<20	<20	<20	<20	<20	1000	ICP Technique
Lead	<10	<10	<10	<10	<10	<10	90	ICP Technique
Antimony	<10	<10	<10	<10	<10	<10	60	ICP Technique
Chromium	<10	<10	<10	<10	<10	<10	60	ICP Technique
Cadmium	<10	<10	<10	<10	<10	<10	75	ICP Technique

Remarks: Sample weight of items marked with a ~ were less than 100mg. The toxic metal content has been calculated as though the sample weight were 100mg in accordance with Clause 8.1.1.

**Conclusion:** The results of the test carried out MEET the requirements of the requested standard.

**S. Deverell BSc**  
Lab Assistant

**H. Singh BSc, C.CHEM, MRSC**  
Senior Analytical Chemist