



Bureau Veritas Consumer Products Services UK Ltd

TEST REPORT

REPORT REF: TR4441/182806

SAMPLE RECEIVED: 19 October 2016

REPORT ISSUED: 17 November 2016

SAMPLE DESCRIPTION: Play Sand Moist, Play Sand Dried, Sports Sand,
Play Sands Pink, Blue, Orange, Yellow, Black, Purple, Green and Red

ORDER NO:

APPLICANT:

REPORT SUMMARY:

TEST	METHOD	PASS	FAIL
Fastness to Washing	BS EN ISO 105-C06:2010	See test results in main body of report	
Fastness to Water	BS EN ISO 105-E01:2013		
MECHANICAL AND PHYSICAL PROPERTIES	BS EN 71-1:2014	X	
FLAMMABILITY	BS EN 71-2 : 2011 + A1:2014	X	
MIGRATION OF CERTAIN ELEMENTS	BS EN71-3:2013, +A1 2014	X	

CONCLUSION: The sample complies with the requirements of EN71-1/2/3.
Please refer to main body of test report for colour fastness results.

Simon Stokes - Technical Consultant

AUTHORISED SIGNATORY



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SAMPLE IMAGE:





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INTRODUCTION:

An examination was requested to ascertain compliance with the requirements as detailed on page one of this report. The following clauses were considered applicable and our findings were as follows:

TEST RESULTS:

Colours Assessed: A=Orange, B=All Other Colours									
TEST	Colour	C.I.S.	RESULTS						REQUIREMENTS
			STAINING						
			Acetate	Cotton	Nylon	Polyester	Acrylic	Wool	
Fastness to Washing	A	4/5	4/5	2/3	4/5	4/5	4/5	4/5	None Specified *
	B	4/5	4/5	4/5	4/5	4/5	4/5	4/5	
Fastness to Water	A	4/5	4/5	3	3	4	4/5	4/5	None Specified *
	B	4/5	4/5	4/5	4/5	4/5	4/5	4/5	

* No acceptance criteria were specified by the client.

It should be noted that in general terms the usual industry acceptance criteria is a minimum of 3/4. It can be seen from the above results that the orange sand produced several results below this minimum.



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TEST RESULTS:

Product Age Grade:

Labelled age grade:	Not stated
Client specified age grade:	Not stated
Appropriate age grade:	Over 12 months
Tested age grade:	Over 12 months

BS EN 71-1:2014

Summary of Examination:

Clause	Description	Result	Comments
4	GENERAL REQUIREMENTS :	-	-
4.1	Material cleanliness	PASS	
5	TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS :	-	-
5.1	General	N/A	See Note 1
7	WARNINGS, MARKINGS AND INSTRUCTIONS FOR USE	N/A	

Notes

1	The requirements of this clause do not apply to sand.
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BS EN 71-2:2011, +A1:2014

Summary of Examination:

Clause	Description	Result	Comments
4.1	GENERAL REQUIREMENTS :	PASS	



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TEST RESULTS:

BS EN71-3:2013, +A1 2014

Clause	Description	Result	Comments
4.2	Specific requirements	PASS	See results tables for specific details

Method Details: Samples are extracted under standard method conditions (0.07N HCL) and analysed using an ICP mass spectrometer.
Limit : See attached results.

Date of the test : 28/10/2016

Description of test portion and additional information (where applicable):

No	Description
1	Wet natural coloured sand
2	Dry natural coloured sand
3	Pink sand
4	Blue sand
5	Orange sand
6	Yellow sand
7	Black sand
8	Purple sand
9	Green sand
10	Red sand



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Test Results

Component	1	2	3	4	5	All results in mg/kg		
Category	I	I	I	I	I			
Element						Limit I	Limit II	Limit III
Aluminium	<100	<100	<100	<100	<100	5625	1406	70000
Antimony	<1	<1	<1	<1	<1	45	11.30	560
Arsenic	0.12	0.14	0.13	0.13	0.11	3.80	0.90	47
Barium	<100	<100	<100	<100	<100	1500	375	18750
Boron	<30	<30	<30	<30	<30	1200	300	15000
Cadmium	<0.05	<0.05	<0.05	<0.05	<0.05	1.30	0.30	17
Chromium	0.03 [^]	0.05 [^]	0.02 [^]	0.02 [^]	0.01	37.50	9.40	460
Chromium VI	<0.02	<0.02	<0.02	<0.02	N/R	0.02	0.005	0.20
Cobalt	<0.2	<0.2	<0.2	<0.2	<0.2	10.50	2.60	130
Copper	<15	<15	<15	<15	<15	622.50	156	7700
Lead	<0.3	<0.3	<0.3	<0.3	<0.3	13.50	3.40	160
Manganese	<30	<30	<30	<30	<30	1200	300	15000
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	7.50	1.90	94
Nickel	<1	<1	<1	<1	<1	75	18.80	930
Selenium	<0.9	<0.9	<0.9	<0.9	<0.9	37.50	9.40	460
Strontium	<100	<100	<100	<100	<100	4500	1125	56000
Tin	0.25 ^{^^}	0.40 ^{^^}	0.23 ^{^^}	0.22	0.60 ^{^^}	15000	3750	180000
Organic Tin	<0.9	<0.9	<0.9	N/R	<0.9	0.90	0.20	12
Zinc	<90	<90	<90	<90	<90	3750	938	46000

[^] Combined Chromium exceeds Cr VI Limits. Additional testing is required (including UOM calculation).
^{^^} Sample exceeds Threshold for Organic tin (In terms of Tributyltin, I - 0.37mg/kg, II - 0.08mg/kg, III - 4.92mg/kg . Additional testing is required (including UOM calculation).
 N/R Testing not required
[▲] Sample exceeds Limit
^x Sample falls within the test uncertainty of measurement
 N/T Not Tested



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Test Results

Component	6	7	8	9	10	All results in mg/kg		
Category	I	I	I	I	I			
Element						Limit I	Limit II	Limit III
Aluminium	<100	<100	<100	<100	<100	5625	1406	70000
Antimony	<1	<1	<1	<1	<1	45	11.30	560
Arsenic	0.12	0.13	0.16	0.14	0.12	3.80	0.90	47
Barium	<100	<100	<100	<100	<100	1500	375	18750
Boron	<30	<30	<30	<30	<30	1200	300	15000
Cadmium	<0.05	<0.05	<0.05	<0.05	<0.05	1.30	0.30	17
Chromium	0.04 [^]	0.03 [^]	0.06 [^]	0.04 [^]	0.04 [^]	37.50	9.40	460
Chromium VI	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.005	0.20
Cobalt	<0.2	<0.2	<0.2	<0.2	<0.2	10.50	2.60	130
Copper	<15	<15	<15	<15	<15	622.50	156	7700
Lead	<0.3	<0.3	<0.3	<0.3	<0.3	13.50	3.40	160
Manganese	<30	<30	<30	<30	<30	1200	300	15000
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	7.50	1.90	94
Nickel	<1	<1	<1	<1	<1	75	18.80	930
Selenium	<0.9	<0.9	<0.9	<0.9	<0.9	37.50	9.40	460
Strontium	<100	<100	<100	<100	<100	4500	1125	56000
Tin	0.20	0.19	0.27 ^{^^}	0.31 ^{^^}	0.27 ^{^^}	15000	3750	180000
Organic Tin	N/R	N/R	<0.9	<0.9	<0.9	0.90	0.20	12
Zinc	<90	<90	<90	<90	<90	3750	938	46000

[^] Combined Chromium exceeds Cr VI Limits. Additional testing is required (including UOM calculation).
^{^^} Sample exceeds Threshold for Organic tin (In terms of Tributyltin, I - 0.37mg/kg, II - 0.08mg/kg, III - 4.92mg/kg . Additional testing is required (including UOM calculation).
 N/R Testing not required
[▲] Sample exceeds Limit
^x Sample falls within the test uncertainty of measurement
 N/T Not Tested



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Bureau Veritas GmbH Germany Report Number: (25416)15-327297

The Tin content detected in components marked "^^" in the above results tables exceeded the "threshold of tin content in terms of Tributyltin (0.37mg/kg) or fell within our uncertainty of measurement. A test for organic tin is therefore required. Bureau Veritas GmbH Germany (DAKKS accredited test) determined the organic tin contents of these component(s) and their results are incorporated in the table above.

Bureau Veritas GmbH Germany Report Number: (25416)15-327298

The results for (combined) chromium detected in components marked "^" in the above results tables were above the limit for chromium VI. Bureau Veritas GmbH Germany (DAKKS accredited test) determined the chromium VI contents of these component(s) and their results are incorporated in the tables above.

Conclusion

It can be seen from the attached results that the components tested had extractable metal contents below the limits specified. The sample therefore complies with the requirements of BS EN 71-3.