



Bureau Veritas Consumer Products Services UK Ltd

TEST REPORT

REPORT REF: ALC K : 161284 : 0814B **SAMPLE RECEIVED:** 26/08/2014
REPORT ISSUED: 23/09/2014

SAMPLE DESCRIPTION: Trunki BoostApak Pink
Item No: 0046-GB01

APPLICANT: Magmatic Ltd (T/A Trunki)
The Mothership
Shaftesbury Chapel
Union Road
Bristol
BS2 0LP

EVALUATION TO: Regulation (EC) No 1907/2006 REACH Annex XVII:-
- Total Cadmium, Substance 23 - Specified components only
- Phthalates content, Substances 51 & 52 - Specified components only
- Azo colourants and Azo dyes contents, Substance 43 - Specified components only

#BS EN 71-2:2011, +A1:2014
BS EN 71-3:2013 – 17 elements only. Specified components only.

CONCLUSION: The components tested complied with the above.
Refer to report notes for details.

CLAIRE FRANCIS
MANAGER - TOYS AND JUVENILE PRODUCTS
AUTHORISED SIGNATORY





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SUMMARY OF EXAMINATION:

INTRODUCTION:

An examination was requested to ascertain compliance with the requirements as detailed on page one of this report. Our findings were as follows:

REGULATION (EC) No 1907/2006 REACH ANNEX XVII

SUBSTANCE	DESCRIPTION	RESULT	* COMMENTS
23	Total Cadmium to Regulation (EC) No 1907/2006 REACH Annex XVII - Specified components only	Pass	See note 1
51 & 52	Phthalates content to Regulation (EC) No 1907/2006 REACH Annex XVII - Specified components only	Pass	See note 2
43	Azo colourants and Azo dyes contents to (EC) No 1907/2006 REACH Annex XVII - Specified components only	Pass	See note 3

BS EN 71-2:2011, +A1:2014

CLAUSE	DESCRIPTION	RESULT	* COMMENTS
4.1	General requirements	Pass	

BS EN 71-3:2013 17 ELEMENTS ONLY

CLAUSE	DESCRIPTION	RESULT	* COMMENTS
4.2	Specific requirements - Specified components only	Pass	See note 4

* See Annex I : Notes

ANNEX I: NOTES

- 1 Only components specified by client were tested.

Registration, Evaluation, Authorisation and Restriction of Chemicals.
Regulation (EC) No 1907/2006 Annex XVII as amended by Regulation (EC) No 835/2012
Cadmium. Designated Substance number 23.

Results

<u>Components</u>	<u>Total Cadmium (mg/kg)</u>
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Pink print	< 10
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Pink plastic zip teeth	< 10
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Specification	100 maximum
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The total cadmium content was determined by ICP-OES, after wet digestion, using documented in-house procedures.

It was assumed that components of a similar type and colour were of identical chemical composition.

Conclusion

It can be seen from the above results that the components tested had a Total Cadmium content below the specified limit and consequently comply with the requirements of the Annex of the Regulation.



2 Only components specified by client were tested.

Registration, Evaluation, Authorisation and Restriction of Chemicals.
Regulation (EC) No 1907/2006 Annex XVII as amended by Regulation (EC) No 552/2009
Phthalates. Designated Substances numbers 51 & 52.

Banned phthalates - all toys and childcare articles (in a summed concentration greater than 0.1% by mass [1000 mg/kg] of the plasticised material):

- (a) bis (2-ethylhexyl)phthalates (DEHP)
- (b) dibutyl phthalate (DBP)
- (c) benzyl butyl phthalate (BBP)

Restricted phthalates - toys and childcare articles which can be placed in the mouth by children (in a summed concentration greater than 0.1% by mass [1000 mg/kg] of the plasticised material):

- (d) di-"isononyl" phthalate (DINP)
- (e) di-"isodecyl" phthalate (DIDP)
- (f) di-n-octyl phthalate (DNOP)

Method used: BVCPS in-house method, extraction with THF/ACN followed by LC-MS analysis (confirmation check for DBP on GC-MS).

Sample 1 - Pink Print

All of the above phthalates were below the detection limit of 50 mg/kg.

Sample 2 - Pink plastic teeth

All of the above phthalates were below the detection limit of 50 mg/kg.

It was assumed that components of a similar type and colour were of identical chemical composition.

Conclusion

It can be seen from the above results that the components tested had a Phthalate content below the specified limit and consequently comply with the requirements of the Annex of the Regulation.



3 Only components specified by client were tested.

Registration, Evaluation, Authorisation and Restriction of Chemicals.
Regulation (EC) No 1907/2006 Annex XVII as amended by Regulation (EC) No 126/2013
Azo colourants and Azo dyes. Designated Substance number 43.
Quantification analysis by GC-MS and confirmation by LC-MS.

Standard method: EN 14362-1:2012

Sample 1 - Pink mesh fabric, pink woven fabric and pink fabric zip tape.

All the MAK Amines were below the detection limit of 10 mg/kg.

Sample 2 - Bright pink small mesh fabric.

All the MAK Amines were below the detection limit of 10 mg/kg.

Specification limit: < 30 mg/kg

The analysis of composites of different materials was carried out at the client's special request.

It was assumed that components of a similar type and colour were of identical chemical composition.

Conclusion

It can be seen from the above results that the components tested had an Azo colourants and Azo dyes content below the specified limits and consequently comply with the requirements of the Annex of the Regulation.

4 Only components specified by client were tested.

Date of test: 02/09/2014

An ICP mass spectrometer was used for the analyses. For results refer to Annex II.
It was assumed that components of a similar type and colour were of identical chemical composition.

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

- A Pink print with grey backing
- B Pink plastic zip teeth including pink fabric tape
- C Bright pink small mesh fabric

The result for (combined) chromium detected in component A and B were above the limit for chromium VI (category III toy material 0.2mg/kg) or fell within our uncertainty of measurement. These components therefore require testing for chromium VI to ascertain if they comply with the requirements of BS EN 71-3:2013.

Conclusion

It can be seen from the attached results that the components tested had extractable metal contents below the limits specified for the 17 elements.



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ANNEX II : TECHNICAL DATA

Job Number		K.161284.0814																		
SOLUBLE MIGRATED ELEMENT IN MILLIGRAMS PER KILOGRAM																				
Component Number	CAT	Al	Sb	As	Ba	B	Cd	Cr	CrVI	Co	Cu	Pb	Mn	Hg	Ni	Se	Sr	Sn	OrSn	Zn
A	3	179.14	<1	15.44	<100	<30	0.33	0.26	^	<0.2	<15	<0.3	<30	<0.1	<1	<0.9	<100	0.16	N/R	<90
B	3	<100	<1	5.49	<100	<30	0.06	0.19	^	<0.2	<15	<0.3	<30	<0.1	<1	<0.9	<100	<0.04	N/R	<90
C	3	<100	1.28	5.59	<100	<30	<0.05	0.03	N/R	<0.2	<15	<0.3	<30	<0.1	<1	<0.9	<100	0.06	N/R	<90
	CAT	Al	Sb	As	Ba	B	Cd	Cr	CrVI	Co	Cu	Pb	Mn	Hg	Ni	Se	Sr	Sn	OrSn	Zn
Limit - Powder	1	5625	45	3.8	1500	1200	1.3	37.5	0.02	10.5	622.5	13.5	1200	7.5	75	37.5	4500	15000	0.9	3750
Limit -Liquid	2	1406	11.3	0.9	375	300	0.3	9.4	0.005	2.6	156	3.4	300	1.9	18.8	9.4	1125	3750	0.2	938
Limit - Scrape	3	70000	560	47	18750	15000	17	460	0.2	130	7700	160	15000	94	930	460	56000	180000	12	46000
Cr^	All results are reported as combined Cr (Cr III and Cr VI). If the result exceeds Cr VI limits further testing is required.																			
Sn^^	Cr VI Limits -Powder like materials 0.02mg/kg / Liquid 0.005 mg/kg / Scrape 0.2 mg/kg.																			
	All results are reported as Tin. If the sample exceeds "Threshold of Tin content in terms of Tributyltin (TBT)" a test for Organotin is required. (Threshold limit) - Powder like materials 0.37mg/kg / Liquid 0.08mg/kg / Scrape 4.92mg/kg.																			
N/R - Not required																				

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PHOTOGRAPH

