



CONSUMER PRODUCTS SERVICES DIVISION

## TECHNO SOURCE

**Technical Report:** (5211)172-0934  
Date Received: June 21, 2011

June 28, 2011  
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Sample Description: 20Q ASSORTMENT  
1. ) RED  
2. ) BLUE  
3. ) PINK

Vendor: N/A  
Manufacturer: On File

Sample Size: 9  
Style No(s): (1060) 1061, (1060)  
1062, (1060) 1063

Buyer: N/A  
Labeled Age Grade: 6+  
Appropriate Age Grade: NOT REQUESTED  
Client Specified Age Grade: 6+

SKN/SKU No.: N/A  
PO No.: N/A  
Ref #: N/A  
Country of Origin: CHINA

Tested Age Grade: OVER 6 YEARS OF AGE  
UPC Code: 801561010619, 801561010626,  
801561010633

Assortment No.: (1061 / 1062 / 1063)



**EXECUTIVE SUMMARY:**

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

- The heavy metals requirements of the European "Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste."

The tested component sample(s) MEET the following requirement(s):

- The BBP, DBP and DEHP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 51.\*
- The DNOP, DINP and DIDP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 52.\*

BUREAU VERITAS HONG KONG LIMITED

Lai Ka Yan, Margaret  
Manager  
Chemical Department

ML/bh

\* Regulation (EC) No. 1907/2006 replaces Directive 76/769/EEC (including the 22nd amendment for Phthalates - 2005/84/EC). Directive 76/769/EEC was therefore repealed with effect from 1 June 2009. All the restrictions developed under Directive 76/769/EEC should be incorporated into Regulation (EC) No. 1907/2006.



**RESULTS:**

HEAVY METALS PRESENT IN PACKAGING (European Council Directive 94/62/EC on Packaging and Packaging Waste)

Parameter:		The sum of lead, cadmium, mercury and hexavalent chromium			
Maximum Allowable Limit:		- 600 ppm by weight after June 30, 1998 - 250 ppm by weight after June 30, 1999 - 100 ppm by weight after June 30, 2001			
Sample Description				Result (mg/kg (ppm))	Conclusion
	Color/Component	Location	Style		
(A)	multi colour printed white / grey paper card	paper card	1-3	LT 21	Pass
(B)	black printed dull white paper	instruction sheet	1-3	LT 19	Pass
(C)	clear adhesive tape / black printed white paper sticker	on paper card	1-3	LT 19	Pass
(D)	clear PVC	blister	1-3	LT 19	Pass

LT = Less Than

\* = Average of duplicate analyses

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



**RESULTS:**

**BBP/DBP/DEHP CONTENTS IN TOYS AND CHILDCARE ARTICLES (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 51)**

Test Method: Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer / Gas Chromatograph Mass Spectrometer.

Sample Identity	Test Component	Location	Style
A.	brown / red coating with	pattern on body	1
	deep blue / blue coating	pattern on body	2
	deep pink / pink coating and	pattern on body	3
	black coating	"on / off " on switch	1-3
B.	red plastic	buttons, switch and body	1
	blue plastic	buttons, switch and body	2
	pink plastic	buttons, switch and body	3
C.	clear red plastic	body	1
	clear blue plastic	body	2
	clear pink plastic	body	3
D.	black printed yellow PVC	sheath of wires form speaker	1-3
	black printed green PVC	sheath of wire from switch	1-3
	black printed orange PVC	sheath of wire from switch	1-3
E.	black printed red PVC	sheath of wire form battery case	1-3
	white printed black PVC	sheath of wire form battery case	1-3
F.	transparent plastic	screen holder and back of screen	1-3
	black plastic with	inner switch	1-3
	bright clear plastic	screw ring at battery case cover	1-3
G.	dark green plastic / clear plastic	speaker	1-3
	grey soft plastic / black soft plastic	side of screen	1-3



**RESULTS:**

**BBP/DBP/DEHP CONTENTS IN TOYS AND CHILDCARE ARTICLES (European Regulation (EC)  
No. 1907/2006 REACH Annex XVII, Item no. 51)**

Test Method: Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer / Gas Chromatograph Mass Spectrometer.

Test Parameter:	BBP	DBP	DEHP	Sum of three phthalates	
Limit (%):	0.1	0.1	0.1	0.1	
Sample	Result (%)				Conclusion
A.	LT 0.005	LT 0.005	0.01	LT 0.015	Pass
B.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
C.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
D.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
E.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
F.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
G.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass

*Detection Limit :*

*BBP = Butyl benzyl phthalate (0.005%)*  
*DBP = Dibutyl phthalate (0.005%)*  
*DEHP = Di(2-ethylhexyl) phthalate (0.005%)*

*Results reported in percentage*  
*LT = Less than*  
*ND = None detected*



**RESULTS:**

**DNOP/DINP/DIDP CONTENTS IN TOYS AND CHILDCARE ARTICLES WHICH CAN BE PLACED IN MOUTH BY THE CHILDREN (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 52)**

Test Method: Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer / Gas Chromatograph Mass Spectrometer.

Sample Identity	Test Component	Location	Style
A.	brown / red coating with	pattern on body	1
	deep blue / blue coating	pattern on body	2
	deep pink / pink coating and	pattern on body	3
	black coating	"on / off " on switch	1-3

Test Parameter:	DNOP	DINP	DIDP	Sum of three phthalates	
Limit (%):	0.1	0.1	0.1	0.1	
Sample	Result (%)				Conclusion
A.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass

*Detection Limit :*

*DNOP = Di-n-octyl phthalate (0.005%)*  
*DINP = Di-iso-nonyl phthalate (0.005%)*  
*DIDP = Di-iso-decyl phthalate (0.005%)*

*Results reported in percentage*  
*LT = Less than*  
*ND = None detected*

**RESULTS:**



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