



CONSUMER PRODUCTS SERVICES DIVISION

TECHNO SOURCE

Technical Report: (5211)208-0821

August 04, 2011

Date Received: July 27, 2011

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Sample Description: 20Q ASSORTMENT SPECIALTY

1.) RED
2.) BLUE
3.) PINK

Vendor: N/A

Sample Size: 36

Manufacturer: On File..

Style No(s): 1096, 1097, 1098

Buyer: N/A

SKN/SKU No.: N/A

Labeled Age Grade: 6+

PO No.: N/A

Appropriate Age Grade: OVER 6 YEARS OF AGE

Ref #: N/A

Client Specified Age Grade: NOT SPECIFIED

Country of Origin: CHINA

Grade:

Tested Age Grade: OVER 6 YEARS OF AGE

Assortment No.: (1095)

UPC Code: 801561010961, 801561010978,
801561010985

EXECUTIVE SUMMARY:

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

- ~~The mechanical hazards requirements of 16 CFR 1500, "Federal Hazardous Substances Act Regulations".~~
- The flammability requirements of 16 CFR 1500.3(c)(6)(vi), "Flammable solid" (FHSA regulations).
- The labeling requirements of ASTM F963-08, "Standard consumer safety specification for toy safety".
- The mechanical hazards requirements of ASTM F963-08, "Standard consumer safety specification for toy safety".
- The soluble heavy metals content requirements of ASTM F963-08, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2.
- The heavy metals content in packaging requirements of Model Toxics Legislation of the Coalition of Northeastern Governors (CONEG).
- The BBP, DBP & DEHP content requirements by composite testing of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) Prohibition On Sale of Certain Products Containing Specified Phthalates.
- The DNOP, DIDP & DINP content requirements by composite testing of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(b)(1) Prohibition On Sale of Certain Products Containing Specified Phthalates.

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EXECUTIVE SUMMARY:

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

- The total lead content of 300ppm requirements by composite testing in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).
- The total lead content of 90ppm requirements of 16 CFR 1303, "Ban of lead-containing paint and certain consumer products bearing lead-containing paint" as mandated by Congress in section 101(f) of the Consumer Products Safety Improvement Act (CPSIA) of 2008, Public Law 110-314.
- The DnHP content requirement of the client's specification.
- The total lead content of surface coating requirements of Illinois Lead Poisoning Prevention Act, Public Act 095-1019.

Note: The sample(s) was not evaluated to the Normal Use testing requirements specified in ASTM F963-08, Section 8.5. It is the responsibility of the manufacturer, vendor or distributor to conduct tests that will simulate normal use conditions. These tests shall ensure that hazards are not generated through normal wear and deterioration of the sample(s). These tests shall also simulate the normal play mode of the toy and to simulate the expected mode of use of the particular toy. The tests shall be conducted in an expected use environment. These normal use tests shall simulate the intended use of the toy based on its estimated lifetime.

Note: The received sample(s) contained scrapable surface coating material(s) of less than 10 milligrams by weight on one single sample, therefore such coating material(s) was not subject to the soluble heavy metals analysis of ASTM F963-08, "Standard consumer safety specification on toy safety", Section 4.3.5.2, as specified in Section 8.3.3.1(2).

BUREAU VERITAS HONG KONG LIMITED

Lai Ka Ming, Kent
Director
Toys and Juvenile Products Department

KL/km



RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-08, "Standard Consumer Safety Specification on Toy Safety". Annex A1

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

USE AND ABUSE TESTS

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable

Test	Test Parameters	Standard Reference
Impact Test	4 x 3 ft	1500.53(b)
Torque Test	4 in-lbs	1500.53(e)
Tension Test	15 lbs	1500.53(f)
Compression Test	30 lbs	1500.53(g)



RESULTS:

PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-08)

Section	Requirement	Result
4.1	Material Quality	M
4.3.7	Stuffing Materials – Visual Inspection	N/A
4.5	Sound-Producing Toys	M
4.6	Small Objects	N/A
4.7	Accessible Edges	M
4.8	Projections	N/A
4.9	Accessible Points	M
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	M
4.12	Packaging Film	N/A
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes Clearances, and Accessibility of Mechanisms	M
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys (exclude section 4.25.10 Battery-powered ride-on toys)	M
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.30	Toy Gun Marking	N/A
4.32	Certain Toys with Spherical Ends	N/A
4.34	Small Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section



RESULTS:

LABELING AND INSTRUCTIONAL REQUIREMENT (ASTM F963-08)

Section	Requirement	Result
Safety Labeling Requirements		
5.4 & 5.3	Aquatic Toys	N/A
5.5 & 5.3	Crib and Playpen Toys	N/A
5.6 & 5.3	Mobiles	N/A
5.7 & 5.3	Stroller and Carriage Toys	N/A
5.8 & 5.3	Toys Intended to be Assembled by an Adult	N/A
5.9 & 5.3	Simulated Protective Devices	N/A
5.10 & 5.3	Toys with Functional Sharp Edges and Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19)	N/A
5.12	Toy Caps (16 CFR 1500.86 for Required Labeling)	N/A
5.13	Art Materials (16 CFR 1500.14(b)(8))	N/A
5.15	Battery-Operated Toys	N/A
5.15.1 & 5.3	Battery-Powered Ride-On Toys	N/A
5.16	Promotional Materials	M
5.17 & 5.3	Magnets	N/A
Instructional Literature		
6.1	Definition and Description	M
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4 & 5.3	Toys Intended to be Assembled by an Adult	N/A
6.5.1-2	Battery-Operated Toys	M
6.5.3	Battery-Powered Ride-On Toys	N/A
6.6	Toys in Contact with Food	N/A
Producer's Markings		
7.1	Producer's Name and Address	M
7.2	Battery-Powered Ride-on Toys	N/A

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section

FLAMMABILITY (16 CFR SECTION 1500.3(c)(6)(vi))

Requirement	Test Method Reference	Findings
Burn rate no greater than 0.1 of an inch per second	16 CFR 1500.44	Did not ignite.



RESULTS:

TOTAL LEAD CONTENT IN SURFACE COATING ("Ban of Lead-containing paint and certain consumer products bearing Lead-containing paint", Consumer Product Safety Improvement Act (CPSIA) of 2008)

Analyte	Lead
Requirement: Maximum allowable limit:	90 mg/kg

Analyte			Lead (Pb)	Conclusion
Sample Description			Result (mg/kg)	
Color / Component	Location	Style		
(A) black/ lacquer	switch & body	1-3	LT 10	Pass
(B) light red/ dark red coating	logo & date code	1	LT 10	Pass
(C) sky blue/ deep blue coating	logo & date code	2	LT 10	Pass
(D) hot pink/ deep pink coating	logo & date code	3	LT 10	Pass

LT = Less Than

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

* = Average of duplicate analyses

Remark:

In some cases, the tested component cannot be tested individually due to overlapped coatings.

TOTAL LEAD CONTENT IN SURFACE COATING (Illinois General Assembly, Public Act 095-1019)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry

Analyte	Lead
Requirement: Maximum allowable limit:	40 mg/kg

Analyte			Lead (Pb)	Conclusion
Sample Description			Result (mg/kg)	
Color / Component	Location	Style		
(A) black/ lacquer	switch & body	1-3	LT 10	Pass
(B) light red/ dark red coating	logo & date code	1	LT 10	Pass
(C) sky blue/ deep blue coating	logo & date code	2	LT 10	Pass
(D) hot pink/ deep pink coating	logo & date code	3	LT 10	Pass

LT = Less Than

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

* = Average of duplicate analyses



RESULTS:

SOLUBLE HEAVY METALS CONTENT (ASTM F963-08, Section 4.3.5.2)

Test Method: Soluble heavy metals content analysis was determined by Inductively Coupled Plasma Spectrometry.

Sample Identity	Color	Location	Style
A.	lacquer	body	1-3

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Maximum Limit (mg/kg)	25	1000	75	60	60	90	60	500
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Sample	Result (mg/kg)								(g)	
A.	LT 2	2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0765	Pass

LT = Less Than

CR = adjusted analytical result

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

* = Average of duplicate analysis

As = Arsenic, Ba = Barium, Cd = Cadmium,

Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium



RESULTS:

TOTAL LEAD CONTENT IN SUBSTRATE BY COMPOSITE TESTING (300PPM) (Consumer Product Safety Improvement Act (CPSIA) of 2008)

Analyte	Lead	
Requirement: Maximum allowable limit:	300 mg/kg	

Analyte			Lead (Pb)	Conclusion
Sample Description			Result (mg/kg)	
	Color / Component	Location	Style	
(A)	translucent red plastic	body	1	LT 10
	translucent blue plastic	body	2	
	translucent pink plastic	body	3	
(B)	translucent plastic	rim of screen	1-3	LT 10
	clear black plastic	screen	1-3	

LT = Less Than

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

* = Average of duplicate analyses

HEAVY METALS CONTENT IN PACKAGING (Model Toxics Legislation of the Coalition of Northeastern Governors (CONEG))

Analyte	Sum of Pb, Cd, Hg & Cr VI	
Requirement: Maximum allowable limit:	100 mg/kg	

Analyte			Sum of Pb, Cd, Hg & Cr VI	Conclusion
Sample Description			Result (mg/kg)	
	Color / Component	Location	Style	
(A)	clear PVC	blister	1-3	LT 20
(B)	clear adhesive tape	base	1-3	LT 20
(C)	black printed white paper	instruction	1-3	LT 20
(D)	white/ grey paper card	base	1-3	LT 20
(E)	dull white/ grey paper board	inserts	1-3	LT 20
(F)	all coating	base	1-3	LT 20
(G)	all coating	inserts	1-3	LT 20

LT = Less Than

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

* = Average of duplicate analysis

Pb = Lead, Cd = Cadmium, Hg = Mercury, Cr VI = Hexavalent chromium



RESULTS:

**PHTHALATES CONTENT IN CHILDREN'S TOYS AND CHILDCARE ARTICLES BY COMPOSITE TESTING
 (Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) Prohibition On Sale of Certain
 Products Containing Specified Phthalates - BBP / DBP / DEHP CONTENT)**

Sample Identity	Test Component	Location	Style
A.	matt black plastic with	switch	1-3
	bright clear plastic	loop on battery compartment	1-3
	green plastic	sound module	1-3
	clear plastic	sound module	1-3
B.	white foam	sound module	1-3
	clear adhesive tape	inner body	1-3
	grey/ black soft plastic	screen	1-3
C.	black printed red PVC	wires	1-3
	black printed yellow PVC	wires	1-3
	black printed orange PVC	wires	1-3
D.	black printed green PVC	wires	1-3
	white printed black PVC	wires	1-3
E.	translucent red plastic	body	1
	translucent blue plastic	body	2
F.	translucent pink plastic	body	3
	translucent plastic	rim of screen	1-3
G.	black/ lacquer	switch & body	1-3
	light red/ dark red coating	logo & date code	1
H.	sky blue/ deep blue coating	logo & date code	2
	hot pink/ deep pink coating	logo & date code	3
I.	white coating	inner body	1-3



RESULTS:

**PHTHALATES CONTENT IN CHILDREN'S TOYS AND CHILDCARE ARTICLES BY COMPOSITE TESTING
 (Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) Prohibition On Sale of Certain
 Products Containing Specified Phthalates - BBP / DBP / DEHP CONTENT)**

Test Parameter:	BBP	DBP	DEHP	
Limit (%):	0.1	0.1	0.1	
Sample	Result (%)			Conclusion
A.	LT 0.005	LT 0.005	LT 0.005	Pass
B.	LT 0.005	LT 0.005	LT 0.005	Pass
C.	LT 0.005	LT 0.005	LT 0.005	Pass
D.	LT 0.005	LT 0.005	LT 0.005	Pass
E.	LT 0.005	LT 0.005	LT 0.005	Pass
F.	LT 0.005	LT 0.005	LT 0.005	Pass
G.	LT 0.005	LT 0.005	LT 0.005	Pass
H.	LT 0.005	LT 0.005	LT 0.005	Pass
I.	LT 0.005	LT 0.005	LT 0.005	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:

**PHTHALATES CONTENT IN CHILDREN'S TOYS AND CHILDCARE ARTICLES BY COMPOSITE TESTING
 (Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(b)(1) Prohibition On Sale of Certain
 Products Containing Specified Phthalates - DNOP / DINP / DIDP CONTENT)**

Sample Identity	Test Component	Location	Style
A.	black/ lacquer	switch & body	1-3
	light red/ dark red coating	logo & date code	1
B.	sky blue/ deep blue coating	logo & date code	2
	hot pink/ deep pink coating	logo & date code	3

Test Parameter:	DNOP	DINP	DIDP	
Limit (%):	0.1	0.1	0.1	
Sample	Result (%)			Conclusion
A.	LT 0.005	LT 0.005	LT 0.005	Pass
B.	LT 0.005	LT 0.005	LT 0.005	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:

CLIENT'S DnHP PHTHALATE CONTENT REQUIREMENT

Test Parameter:				DnHP	
Limit (%):				0.1	
	Color / Component	Location	Style	Result (%)	Conclusion
A.	Composite of matt black plastic with bright clear plastic	switch	1-3	LT 0.005	Pass
		loop on battery compartment	1-3		
	green plastic	sound module	1-3		
	clear plastic	sound module	1-3		
B.	white foam	sound module	1-3	LT 0.005	Pass
	clear adhesive tape	inner body	1-3		
	grey/ black soft plastic	screen	1-3		
C.	black printed red PVC	wires	1-3	LT 0.005	Pass
	black printed yellow PVC	wires	1-3		
	black printed orange PVC	wires	1-3		
D.	black printed green PVC	wires	1-3	LT 0.005	Pass
	white printed black PVC	wires	1-3		
E.	translucent red plastic	body	1	LT 0.005	Pass
	translucent blue plastic	body	2		
F.	translucent pink plastic	body	3	LT 0.005	Pass
	translucent plastic	rim of screen	1-3		
G.	black/ lacquer	switch & body	1-3	LT 0.005	Pass
	light red/ dark red coating	logo & date code	1		
H.	sky blue/ deep blue coating	logo & date code	2	LT 0.005	Pass
	hot pink/ deep pink coating	logo & date code	3		
I.	white coating	inner body	1-3	LT 0.005	Pass

Detection Limit :
 DnHP = Dihexyl phthalate (0.005%)

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

RESULTS:

