



PROLUME LIMITED AND BIOTOY LLC

Technical Report: (8814)346-0011

Jan 6, 2015

Date Received: Dec 12, 2014

Page 1 of 8

PROLUME LIMITED AND BIOTOY LLC
SUITE 1404, TUNG WAI COMMERCIAL BUILDING,
109-111 GLOUCESTER ROAD, WAN CHAI, HK

Sample Description: SPLASHLIGHT TOY

- (1.) RED
- (2.) BLUE
- (3.) FUCHSIA

Vendor: PROLUME ASIA LIMITED

Sample Size: N/A

Manufacturer: PROLUME ASIA LIMITED

Style No(s): N/A

Buyer: N/A

SKN/SKU No.: 5148931301

Labeled Age Grade: SUITABLE FOR AGES 8+

PO No.: N/A

Appropriate Age Grade: NOT REQUESTED

Ref #: N/A

Client Specified Age Grade: 8+

Country of Origin: 中国广东省

Tested Age Grade: OVER 8 YEARS OF AGE

Country of Destination: 北美, 欧洲, 澳大利亚&
新西兰, 中国, 日本

UPC Code: N/A

Assortment No.: N/A

Test Starting Date: DEC 12, 2014

Test Finished Date: JAN 6, 2015

EXECUTIVE SUMMARY:

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

- The labeling requirements of the tested subclauses of the AS/NZS ISO Standard, "Safety of toys", AS/NZS ISO 8124: Part 1: 2013.
- The mechanical and physical properties requirements of the tested subclauses of the AS/NZS ISO Standard, "Safety of toys", AS/NZS ISO 8124: Part 1: 2013.
- The flammability requirements of the AS/NZS ISO Standard, "Safety of toys", AS/NZS ISO 8124: Part 2: 2009.
- The migration of certain elements requirements of the AS/NZS ISO Standard, "Safety of toys", AS/NZS ISO 8124: Part 3: 2012.

Note: At the request of the client, the sample(s) was evaluated for use by children 8+.

BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

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REMARK

If there are questions or concerns on this report, please contact the following persons:

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PROLUME LIMITED AND BIOTOY LLC
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Jan 6, 2015

Page 2 of 8

RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age-grading guidelines of the Annex A of the AS/NZS ISO Standard, "Safety of toys", ISO 8124: Part 1: 2010.

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.



RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
 (AS/NZS ISO 8124-1: 2013)**

Subclause	Requirement	Result
4.1	Normal use	M
4.2	Reasonably foreseeable abuse	N/A
4.3	Material	-
4.3.1	Material quality	M
4.3.2	Expanding materials	N/A
4.4	Small parts	-
4.4.1	Small parts (under 36 months)	N/A
4.4.2	Small parts warning (36 months and over but under 72 months)	N/A
4.5	Shape, size and strength of certain toys	-
4.5.1	Squeeze toys, rattles and certain other toys	N/A
4.5.2a	Small ball (under 36 months)	N/A
4.5.2b	Small ball warning (36 months and over but under 96 months)	N/A
4.5.3	Pompoms	N/A
4.5.4	Pre-school play figures	N/A
4.5.5	Toy pacifiers	N/A
4.5.6	Balloons Warning	N/A
4.5.7	Marbles Warning	N/A
4.5.8	Hemispheric-shaped toys	N/A
4.6	Edges	-
4.6.1	Accessible sharp edges of glass or metal	N/A
4.6.2	Functional sharp edges warning	N/A
4.6.3	Edges on metal toys	N/A
4.6.4	Edges on moulded toys	N/A
4.6.5	Edges on exposed bolts or threaded rods	N/A
4.7	Points	-
4.7.1	Accessible sharp points	N/A
4.7.2	Functional sharp points warning	N/A
4.7.3	Wooden toys	N/A
4.8	Projections	-
4.8.1	Projections	N/A
4.8.2	Handlebars and other tubes	N/A
4.9	Metal wires and rods	-
4.9a	Metal wires and rods intended to be bent	N/A
4.9b	Metal wires and rods likely to be bent	N/A
4.9c	End of spokes	N/A



RESULTS:

Subclause	Requirement	Result
4.10	Plastic film or plastic bags in packaging and in toys	N/A
4.11	Cords and elastics	-
4.11.1	Cords and elastics (under 18 months)	N/A
4.11.2	Self-retracting pull cords (under 18 months)	N/A
4.11.3	Cords for pull toys (under 36 months)	N/A
4.11.4	Cords on toy bags	N/A
4.11.5	Crib or playpen toys and mobiles warning & instruction for use	N/A
4.11.6	Crib gyms and similar toys warning & instruction for use	N/A
4.11.7	Cords, strings and lines for flying toys	N/A
	Warning - Toy kites and other flying toys with cord	N/A
4.12	Folding mechanisms	-
4.12.1	Toy pushchairs, perambulators and similar toys	N/A
4.12.2	Other toys with folding mechanisms	N/A
4.12.3	Hinge-line clearance	N/A
4.13	Holes, clearances and accessibility of mechanisms	-
4.13.1	Circular holes in rigid materials (under 60 months)	N/A
4.13.2	Accessible clearances for movable segments (under 96 months)	N/A
4.13.3	Chains or belts in ride-on toys	N/A
4.13.4	Other driving mechanisms	N/A
4.13.5	Winding keys (under 36 months)	N/A
4.14	Springs	N/A
4.15	Stability and overload requirements	-
4.15.1	Stability of ride-on toys and seats (under 60 months)	-
4.15.1.1	Sideways stability, feet available for stabilization	N/A
4.15.1.2	Sideways stability, feet unavailable for stabilization	N/A
4.15.1.3	Fore and aft stability	N/A
4.15.2	Overload requirements for ride-on toys and seats	N/A
4.15.3	Stability of stationary floor toys	N/A
4.16	Enclosures	-
4.16.1	Ventilation	N/A
4.16.2	Closures	-
4.16.2.1	Lids, doors and similar devices	N/A
4.16.2.2	Lid support for toy chests and similar toys	N/A
	Instruction for assembly	N/A
4.16.3	Toys that enclose the head	N/A
4.17	Simulated protective equipment	N/A
	Warning	N/A



RESULTS:

Subclause	Requirement	Result
4.18	Projectile toys	-
4.18.1	Projectile toys -General	N/A
4.18.2	Projectile toys with stored energy	N/A
	Instruction for use	N/A
4.18.3	Projectile toys without stored energy	N/A
	Instruction for use	N/A
4.19	Aquatic toys	N/A
	Warning	N/A
4.20	Braking	N/A
4.21	Toy bicycles	-
4.21.1	Toy bicycles – Instruction for use	N/A
4.21.2	Toy bicycles – Maximum saddle height	N/A
4.21.3	Toy bicycles – Braking requirements	N/A
4.22	Speed limitation of electrically driven ride-on toys	N/A
4.23	Toys containing a heat source	N/A
4.24	Liquid-filled toys	N/A
	Warning	N/A
4.25	Mouth-actuated toys	N/A
4.26	Toy roller skates, toy inline skates and toy skateboards	N/A
	Warning	N/A
4.27	Percussion caps	N/A
	Warning	N/A
4.28	Acoustic requirement	N/A
	Warning	N/A
4.29	Toy scooters	N/A
4.30	Magnets and magnetic components	-
4.30.1	Magnetic/electrical experimental sets (for children 8 years and over)	N/A
	Warning	N/A
4.30.2	All other toys with magnets and magnetic components (under 8 years)	-
4.30.2 a	Loose-as-received magnet(s) and magnetic component(s)	N/A
4.30.2 b	Wooden toys, toys intended in water and mouth pieces of mouth-actuated toys with magnets or magnetic components	N/A
4.30.2 c	Magnet(s) and magnetic component(s) liberated from toy	N/A

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



RESULTS:

FLAMMABILITY (AS/NZS ISO 8124-2: 2009)

Subclause	Requirement	Result
4.1	Celluloid (cellulose nitrate)	NP
4.1	Dangerous flammable gases, liquids and solids	NP
4.1	Materials with a pile surface which produces a flash effect on the approach of a flame	NA
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by child on play	NA
4.3	Toy disguise costumes and toys intended to be worn by child on play with warning	NA
4.4	Toys intended to be entered by a child	NA
4.4	Toys intended to be entered by a child with warning	NA
4.5	Filled soft toys with a pile or textile surface	NA

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



Tested Component(s) Description List:

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Red coating	Body	1
I002	Blue coating	Body	2
I003	Fuchsia coating	Body	3

RESULTS:

Migration of Certain Elements – Australian/New Zealand Standard AS/NZS ISO 8124 Part 3: 2012

Test Method : Australian/New Zealand Standard AS/NZS ISO 8124 Part 3: 2012, Section 8.

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit All except Type VIII (mg/kg)	25	1000	75	60	60	90	60	500
Max. Limit Type VIII (mg/kg)	25	250	50	25	25	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
Test Item(s)	Result (mg/kg)								(g)	
Type I: Coatings										
I001	ND	ND	ND	ND	ND	ND	ND	ND	0.0118	PASS
I002	ND	ND	ND	ND	ND	ND	ND	ND	0.0165	PASS
I003	ND	ND	ND	ND	ND	ND	ND	ND	0.0176	PASS

Note / key:

As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium
 Hg = Mercury Pb = Lead Sb = Antimony Se = Selenium
 ND = Not detected g = gram(s) % = percent
 mg/kg = milligram(s) per kilogram
 Detection Limit (mg/kg) :
 For Type I to VII, IX & X - As 2.5; Ba 100; Cd 7.5; Each (Cr, Hg, & Sb) 6.0; Pb 9.0; Se 50
 For Type VIII - Each (As, Cr & Hg) 2.5; Ba 25; Cd 5.0; Sb 6.0; Pb 9.0; Se 50



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Page 8 of 8

RESULTS:



END OF REPORT