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American National Standards Institute
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British Standards Institute

Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report

Number: HKGH0198177502

Applicant: NEAT-OH! INTERNATIONAL, LLC
790 FRONTAGE ROAD SUITE 303
NORTHFIELD
IL 60093
USA
Attn: ALEX YIU

Date: Jun 24, 2016

Submitted sample said to be :
Item Name : (1) A2201XX - Neat-Oh!® Dinosaur Iridescent 5 Piece Gift Set In Color Box
(2) A2201X1 - Neat-Oh!® Dinosaur Iridescent 5 Piece In Brown Box
Quantity : 6 sets
Labelled Age Group : "3+"
Packaging Provided : Yes
Country of Origin : China



For and on behalf of :
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung
Vice President





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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) EN71-1: 2014 - Mechanical and Physical Properties	Pass
(2) EN71-2 : 2011 + A1 : 2014 - Flammability Test	Pass
(3) EN71-3 : 2013 + A1:2014 - Migration of certain elements	Pass
(4) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 23 & amendment No. 2016/217 - Cadmium content requirement	Pass
(5) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 - Phthalates content	Pass



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(1) Physical and Mechanical Tests

Test Standard : European Standard on Safety of Toys EN71-1:2014

Age group for testing : For Ages Over 3 Years

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	P
4.8	Points and Metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put into mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non -electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA



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Clause	Requirement	Assessment
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic / electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA

Abbreviation : P = Pass NA = Not Applicable

Below are additional information according to the Toy Safety Directive 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements and not accredited:

Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking. After checking, it was found that

	Toy	Packaging
Manufacturer's name	Present	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Present
Importer's address	Absent	Present
Product identification code	Absent	Present
CE-marking	Absent	Present

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(2) Flammability Test

Test Standard : European Standard on Safety of Toys EN71-2 : 2011 + A1 : 2014

Clause	Requirement	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Jun 16, 2016
Test Period : Jun 16, 2016 to Jun 23, 2016

(3) 19 Toxic Element Migration Test

Test Standard : EN71-3:2013 + A1:2014

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III) ++	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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	Result (mg/kg)			Limit (mg/kg)
	(4)	(5)	(6)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III) ++	<10	<10	<10	460
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Soluble Lead (Pb)	<10	<10	<10	160
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

	Result (mg/kg)			Limit (mg/kg)
	(7)	(8)	(9)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III) ++	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test results were marked with "^" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.



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Organic tin test result was expressed as tributyl tin.

Tested Components:

- (1) Coatings (orange, black, white, light brown) on plastic (Velociraptor).
- (2) Coatings (shiny orange, light blue, sky blue, black) on plastic (Stegosaurus).
- (3) Coatings (shiny aqua, shiny dark blue) on plastic (Tyrannosarus Rex).
- (4) Coatings (shiny dark purple, shiny purple, light purple, dull orange, black) on plastic (Brachiosaurus).
- (5) Coatings (shiny green, shiny blue) on plastic (Triceratops).
- (6) Light brown plastic (Velociraptor).
- (7) Dark grey plastic (Stegosaurus & Triceratops).
- (8) Light grey plastic (Tyrannosarus Rex).
- (9) Pale brown plastic (Brachiosaurus).

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(4) Cadmium (Cd) Content

Test Method : Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.1
(2)	ND	0.1
(3)	ND	0.1
(4)	ND	0.1
(5)	ND	0.1
(6/7)	ND	0.01
(8/9)	ND	0.01

ND : Not detected (< 0.0005%)

Tested Components:

- (1) Coatings (orange, black, white, light brown) on plastic (Velociraptor).
- (2) Coatings (shiny orange, light blue, sky blue, black) on plastic (Stegosaurus).
- (3) Coatings (shiny aqua, shiny dark blue) on plastic (Tyrannosarus Rex).
- (4) Coatings (shiny dark purple, shiny purple, light purple, dull orange, black) on plastic (Brachiosaurus).
- (5) Coatings (shiny green, shiny blue) on plastic (Triceratops).
- (6) Light brown plastic (Velociraptor).
- (7) Dark grey plastic (Stegosaurus & Triceratops).
- (8) Light grey plastic (Tyrannosarus Rex).
- (9) Pale brown plastic (Brachiosaurus).

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(5) Phthalate Content Test

Test Method : EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compounds	Result (% , w/w)			Limit (% , w/w) (max.)
	(1)	(2/3)	(4/5)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	0.1
Di-iso-nonyl phthalate (DINP)	<0.01	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	--
Di-iso-decyl phthalate (DIDP)	<0.01	<0.01	<0.01	--
Sum of DINP,DnOP & DIDP	<0.01	<0.01	<0.01	0.1

Remark : The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 for phthalate content in toys and childcare articles.

Tested components :

- (1) Coatings on plastic (Velociraptor, Stegosaurus, Tyrannosarus Rex, Brachiosaurus, Triceratops) .
- (2) Light brown plastic (Velociraptor) .
- (3) Dark grey plastic (Stegosaurus & Triceratops) .
- (4) Light grey plastic (Tyrannosarus Rex) .
- (5) Pale brown plastic (Brachiosaurus) .

Date sample received : Jun 16, 2016
Testing period : Jun 16, 2016 to Jun 20, 2016

End of report

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