

Test Report

Number: H-182301
(HKGH01534015)

Applicant: ZITELNY INDUSTRIES LTD
EDUSHAPE TOY DIVISION
9 AMAL ST ROSH HA'AYIN 48091
P O BOX 11788
ISRAEL
Attn: ADRIANA/MR.N.M.SHUM

Date: Aug 21, 2013

Sample Description:

Three (3) sets of submitted sample said to be :
Item Name : **Big and Small Sensory and Senso Balls-Transparent, Glow in the Dark and Solid Colors**
Style No : 701174,701175,701176,701177,701101,701174,701179,705101,705174,705174,705175,705176,705177,705178,705179,705183,705185,705191,705194,705377,715174,715176,373020,373021,EL135738,MC705174
Labelled Age Group : Not specified
Packaging Provided : No
Vendor : Edushape
Country of Origin : China



To be continued

Prepared and checked by:
For Intertek Testing Services

Danny K.M. Ho

Approved for and on behalf of
ITS Testing Services (UK) Ltd.

Philip Bullock
Technical Manager



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Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EN71-1 : 2011 for mechanical and physical properties excluding labelling requirement of clause 7.1	Pass
	EN71-2 : 2011 for Flammability test	Pass
Tested components of submitted samples	EN71-3 : 1994 and amendment A1 : 2000 and AC : 2002 for toxic elements test	Pass
	Phthalates content requirement in Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 (formerly known as Directive 2005/84/EC)	Pass

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Tests Conducted

1 Mechanical and Physical Test

As per European Standard on Safety of toys EN71-1 : 2011.

Applicant's specified age group for testing : Ages over 6 months.

The submitted samples were undergone the following abuse tests:

Clause	Testing items
8.3	Torque test (0.34 Nm)
8.4.2.1	Tension test (90 N)
8.5	Drop test (850 mm x 5)
8.7	Impact test (1 kg)
8.8	Compression test (110 N)

Clause	Testing items	Assessment
4	General requirements	
4.1	Material	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 in the 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 children under 36 months	P



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<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
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	P
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	P
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
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	#
7.2	Toys not intended for children under 36 months	NA
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, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to 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

Remark : P = Pass NA = Not Applicable



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= No packaging was submitted for testing. Hence, clause 7.1 General requirement for Warnings, markings and instructions for use was not assessed.

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

1. 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, all the above markings were not found on the toy.

2. Cleaning instruction

A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provided instructions on how the toy has to be cleaned.

After checking, the cleaning instruction was not found on the submitted samples.

Date sample received : Aug 02, 2013

Testing period : Aug 02, 2013 to Aug 09, 2013

2 Flammability Test

As per European Standard on Safety of Toys EN71-2:2011

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
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

Remark : P = Pass NA= Not applicable

Date sample received : Aug 02, 2013

Testing period : Aug 02, 2013 to Aug 08, 2013



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3 Toxic Elements Analysis

As per European Standard on Safety of toys EN71-3 : 1994 and amendment A1 : 2000 and AC : 2002, acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

	<u>Result in mg/kg</u>						<u>Limit</u>
	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>	<u>mg/kg</u>
Sol. Barium (Ba)	<5	<5	<5	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25

	<u>Result in mg/kg</u>						<u>Limit</u>
	<u>(11)</u>	<u>(12)</u>	<u>(13)</u>	<u>(14)</u>	<u>(15)</u>	<u>(16)</u>	<u>mg/kg</u>
Sol. Barium (Ba)	<5	<5	<5	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25

	<u>Result in mg/kg</u>						<u>Limit</u>
	<u>(17)</u>	<u>(18)</u>	<u>(19)</u>	<u>(20)</u>	<u>(21)</u>	<u>(22)</u>	<u>mg/kg</u>
Sol. Barium (Ba)	<5	<5	<5	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25

	<u>Result in mg/kg</u>						<u>Limit</u>
	<u>(23)</u>	<u>(24)</u>	<u>(25)</u>	<u>(26)</u>	<u>(27)</u>	<u>(28)</u>	<u>mg/kg</u>
Sol. Barium (Ba)	<5	<5	<5	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25

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	(29)	Result in mg/kg	(30)	Limit mg/kg
Sol. Barium (Ba)	<5		<5	1000
Sol. Lead (Pb)	<5		<5	90
Sol. Cadmium (Cd)	<5		<5	75
Sol. Antimony (Sb)	<5		<5	60
Sol. Selenium (Se)	<5		<5	500
Sol. Chromium (Cr)	<5		<5	60
Sol. Mercury (Hg)	<5		<5	60
Sol. Arsenic (As)	<2.5		<2.5	25

Sol. = Soluble
mg/kg = milligram per kilogram

Tested Components :

- (1) @ Black coating on plastic (code of all style).
- (2) @ Orange coating on plastic (logo of all style).
- (3) @ Green coating on plastic (logo of all style).
- (4) @ Red coating on plastic (logo of all style).
- (5) Translucent light green plastic (big and small transparent green balls).
- (6) Beige plastic (valve of all style).
- (7) Blue plastic (big and small blue balls).
- (8) Green plastic (big and small green balls).
- (9) Red plastic (big and small red balls).
- (10) Yellow plastic (big and small yellow balls).
- (11) Translucent green plastic (big translucent green ball).
- (12) Sky blue plastic (small sky blue ball).
- (13) Translucent blue plastic (big and small translucent blue balls).
- (14) Translucent light blue plastic (big translucent light blue ball).
- (15) Translucent red plastic (big and small translucent red balls).
- (16) Dull translucent plastic (big dull translucent ball).
- (17) Pale green plastic (small pale green ball).
- (18) Translucent yellow plastic (big and small translucent yellow balls).
- (19) Pink plastic (small pink ball).
- (20) Translucent deep pink plastic (big translucent deep pink ball).
- (21) Orange plastic (small orange ball).
- (22) Translucent orange plastic (big translucent orange ball).
- (23) Light green plastic (pins of yellow ball).
- (24) Shiny yellow plastic (big and small shiny yellow ball with pins).
- (25) Pale blue plastic (pins of green balls).
- (26) Shiny green plastic (big and small shiny green balls).
- (27) Purple plastic (pins of blue, red balls).
- (28) Shiny pale blue plastic (big and small shiny pale blue balls).
- (29) Dull pink plastic (big dull pink ball with purple pins).
- (30) Shiny pink plastic (small shiny pink ball with purple pins).

@ : Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.

Date sample received : Aug 02, 2013
Testing period : Aug 02, 2013 to Aug 07, 2013



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Tests Conducted

4 Phthalate Content Test

With reference to EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	<u>Result (%. w/w)</u>				<u>Limit (%. w/w)</u>
	<u>(1)</u>	<u>(2/3/8)</u>	<u>(4/10)</u>	<u>(5/11)</u>	<u>(max.)</u>
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	<0.01	0.1
Di-iso-nonyl phthalate (DINP)	<0.01	<0.01	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	<0.01	--
Di-iso-decyl phthalate (DIDP)	<0.01	<0.01	<0.01	<0.01	--
Sum of DINP,DnOP & DIDP	<0.01	<0.01	<0.01	<0.01	0.1

	<u>Result (%. w/w)</u>				<u>Limit (%. w/w)</u>
	<u>(6/12)</u>	<u>(7/13)</u>	<u>(9/15)</u>	<u>(14/17)</u>	<u>(max.)</u>
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	<0.01	0.1
Di-iso-nonyl phthalate (DINP)	<0.01	<0.01	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	<0.01	--
Di-iso-decyl phthalate (DIDP)	<0.01	<0.01	<0.01	<0.01	--
Sum of DINP,DnOP & DIDP	<0.01	<0.01	<0.01	<0.01	0.1

	<u>Result (%. w/w)</u>				<u>Limit (%. w/w)</u>
	<u>(16/19)</u>	<u>(18/20)</u>	<u>(21/22)</u>	<u>(23/24)</u>	<u>(max.)</u>
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	<0.01	0.1
Di-iso-nonyl phthalate (DINP)	<0.01	<0.01	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	<0.01	--
Di-iso-decyl phthalate (DIDP)	<0.01	<0.01	<0.01	<0.01	--
Sum of DINP,DnOP & DIDP	<0.01	<0.01	<0.01	<0.01	0.1

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	<u>Result (% w/w)</u>			<u>Limit (% w/w)</u>
	<u>(25)</u>	<u>(26)</u>	<u>(27)</u>	<u>(max.)</u>
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 (formerly known as Directive 2005/84/EC) for phthalate content in toys and childcare articles.

Tested Components :

- (1) Coatings (red, black, green, orange) on plastic (logo of all style).
- (2) Translucent light green plastic (big and small transparent green balls).
- (3) Beige plastic (valve of all style).
- (4) Blue/translucent blue plastic (big and small blue balls).
- (5) Green/translucent green plastic (big and small green balls).
- (6) Red/translucent red plastic (big and small red balls).
- (7) Yellow/translucent yellow plastic (big and small yellow balls).
- (8) Translucent green plastic (big translucent green ball).
- (9) Sky blue/translucent sky blue plastic (small sky blue ball).
- (10) Translucent blue plastic (big and small translucent blue balls).
- (11) Translucent light blue plastic (big translucent light blue ball).
- (12) Translucent red plastic (big and small translucent red balls).
- (13) Dull translucent plastic (big dull translucent ball).
- (14) Pale green/translucent pale green plastic (small pale green ball).
- (15) Translucent yellow plastic (big and small translucent yellow balls).
- (16) Pink/translucent pink plastic (small pink ball).
- (17) Translucent deep pink plastic (big translucent deep pink ball).
- (18) Orange/translucent orange plastic (small orange ball).
- (19) Translucent orange plastic (big translucent orange ball).
- (20) Light green plastic (pins of yellow ball).





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Tested Components :

- (21) Shiny yellow/translucent shiny yellow plastic (big and small shiny yellow ball with pins).
- (22) Pale blue plastic (pins of green balls).
- (23) Shiny green/translucent shiny green plastic (big and small shiny green balls).
- (24) Purple plastic (pins of blue, red balls).
- (25) Shiny pale blue/translucent shiny pale blue plastic (big and small shiny pale blue balls).
- (26) Dull pink/translucent dull pink plastic (big dull pink ball with purple pins).
- (27) Shiny pink/translucent shiny pink plastic (small shiny pink ball with purple pins).

Date sample received : Aug 02, 2013

Testing period : Aug 02, 2013 to Aug 08, 2013

End of report

"The items were tested by Intertek Testing Services Hong Kong Ltd., for and on behalf of ITS Testing Services (UK) Ltd."

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