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

Test Report

Number: HKGH02054457

Applicant: VASEN INTERNATIONAL LIMITED
FLAT 909-911 9/F KWONG SANG HONG CTR
151-153 HOI BUN RD
KWUN TONG KLN
HK
Attn: ZEN WONG

Date: Nov 30, 2016

Submitted sample said to be	:	
Item Name	:	Animal Goggles with 2 assorted colors :
		(1) Purple
		(2) Blue
Item No.	:	G-2027, G-2033
Quantity	:	Five pairs per color
Vendor	:	Vasen
Buyer	:	Dunnes Store
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) BS 5883 : 1996 Specification for Surface swimming goggles excluding: - Clause 6 Instruction	Pass
(2) EN71-1: 2014 - Mechanical and Physical Properties	Pass
(3) EN71-2 : 2011 + A1 : 2014 - Flammability Test	Pass
(4) EN71-3 : 2013 + A1:2014 - Migration of certain elements	Pass
(5) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 - Phthalates content	Pass



Test Report

Number: HKGH02054457

(1) Safety Requirements for Surface Swimming Goggles

Test Standard : BS 5883 : 1996 - Specification for Surface swimming goggles.

Number of samples tested : Three (3) pairs per style; Total two (2) styles.

Notes :

- (1) The submitted goggles were declared by applicant for junior use.
- (2) It is vendor's responsibility to ensure that materials used in parts that come in contact with the skin should not affect the skin adversely.
- (3) CE marking is not specified in BS 5883 but per 89/686/EEC, Article 13, the marking shall be affixed to the swimming goggles so as to be visible, legible and indelible throughout the expected life of the product. The format of this CE marking was given in the Annex IV of the captioned directive.

However, CE marking was given on the swimming goggles but the presentation was found different from the requirement.

Clause	Requirement	Result
4	Safety requirements	
4.1	General	P#1
4.2	Projections	P
4.3	Material components (Note 2)	P
4.4	Lenses	
4.4.1	General	P
4.4.2	Impact strength	P
4.4.3	Defects	P
4.4.4	Leakage	P
4.5	Compressive strength of eye cup	P
4.6	Water seal	
4.6.1	Configuration	P
4.6.2	Adhesion of eye seal to eye cup	P
4.7	Head strap	
4.7.1	General	P
4.7.2	Material	P
4.7.3	Resistance to slipping	P
4.8	Bridge strap	P
5	Marking (Note 3)	P
6	Instruction	#2

Abbreviation : P = Pass



Test Report

Number: HKGH02054457

Remarks :

#1- Although the exposed edges of radius of the eye cup was less than 2 mm, it did not present any discomfort in wear or injury in use.

- #2- The following instructions shall be included on the packaging:
- Adjustment to head strap and bridge strap;
 - Fitting and removal of goggles;
 - Eye safety warning;
 - An indication as to whether goggles are for children or adults;
 - A statement that the goggles are 'FOR SURFACE USE ONLY'.

Date sample received : Nov 24, 2016
Testing period : Nov 24, 2016 to Nov 28, 2016

(2) Physical and Mechanical Tests

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

Age group for testing : For Ages Over 3 Years

The submitted samples were undergone the following abuse tests:	
<u>Clause</u>	<u>Testing Items</u>
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)

<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	P
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



Test Report

Number: HKGH02054457

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
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
6	Packaging	NA
7	Warnings, markings and instructions for use	#1

Abbreviation : P = Pass NA = Not Applicable

Remark(s):

#1 = Clause 7 - The item examined is not a toy. Therefore, the warning and other requirements as specified in this clause do not apply.

Comment: The scope of the standard was not applicable to the submitted samples. Testing was conducted with reference to the test method and requirements as stated.

Date sample received : Nov 22, 2016

Test Period : Nov 22, 2016 to Nov 26, 2016



Test Report

Number: HKGH02054457

(3) 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

Comment: The scope of the standard was not applicable to the submitted samples. Testing was conducted with reference to the test method and requirements as stated.

Date sample received : Nov 22, 2016

Test Period : Nov 22, 2016 to Nov 25, 2016

(4) 19 Toxic Element Migration Test

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

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(3)	(4)	(5)	
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	16	<10	180000
Soluble Organic tin ++	<2.0	3.1Δ	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000





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Hong Kong Toys Council

Test Report

Number: HKGH02054457

	Result (mg/kg)			Limit (mg/kg)
	(6)	(7)	(8)	
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

	Result (mg/kg)			Limit (mg/kg)
	(9)	(10)	(11)	
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



Test Report

Number: HKGH02054457

	Result (mg/kg)			Limit (mg/kg)
	(12)	(13)	(14)	
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.

Organic tin test result was expressed as tributyl tin.

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

Δ : Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.



Test Report

Number: HKGH02054457

Tested Components:

- (1) @ Black coating on plastic (strap of purple style goggle).
- (2) @ White coating on plastic (strap of blue style goggle).
- (3) Shiny purple plastic (bridge of purple style goggle).
- (4) Shiny blue plastic (bridge of blue style goggle).
- (5) Transparent plastic (lens of all style).
- (6) Transparent plastic (gasket of all style).
- (7) Purple plastic (strap of purple style goggle).
- (8) Blue plastic (strap of blue style goggle).
- (9) Shiny white plastic (buckle of all style goggle).
- (10) Dull white plastic (frame of all style goggle).
- (11) Dull black plastic (frame of all style goggle).
- (12) Pale purple plastic (frame of purple style goggle).
- (13) Dark purple plastic (frame of purple style goggle).
- (14) Light blue plastic (frame of blue style goggle).

Date sample received : Nov 22, 2016
Test Period : Nov 22, 2016 to Nov 30, 2016

(5) Phthalate Content Test

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

Six Phthalate content:

Compounds	Result (% , w/w)			Limit (% , w/w)
	(1)	(2/3/4)	(5/6/7)	
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
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	--
Sum of DINP,DnOP & DIDP	<0.01	<0.01	<0.01	0.1

Compounds	Result (% , w/w)		Limit (% , w/w)
	(8/9/10)	(11/12/13)	
Dibutyl phthalate (DBP)	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	--
Sum of DINP,DnOP & DIDP	<0.01	<0.01	0.1





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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 (black, white) on plastic (strap).
- (2) Shiny purple plastic (bridge of purple style goggle).
- (3) Shiny blue plastic (bridge of blue style goggle).
- (4) Transparent plastic (lens of all style).
- (5) Transparent plastic (gasket of all style).
- (6) Purple plastic (strap of purple style goggle).
- (7) Blue plastic (strap of blue style goggle).
- (8) Shiny white plastic (buckle of all style goggle).
- (9) Dull white plastic (frame of all style goggle).
- (10) Dull black plastic (frame of all style goggle).
- (11) Pale purple plastic (frame of purple style goggle).
- (12) Dark purple plastic (frame of purple style goggle).
- (13) Light blue plastic (frame of blue style goggle).

Date sample received : Nov 22, 2016

Test Period : Nov 22, 2016 to Nov 29, 2016

End of report

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