

# TEST REPORT

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

Number: HKGH02300286  
  
Date: May 29, 2018

Submitted sample said to be :  
Item Name : **mask and snorkel set**  
Ref No. : **MS-1403S77**  
Quantity : Four sets  
Buyer : The Warehouse Limited



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

Angel Y.F. Cheung  
Vice President



# TEST REPORT

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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) EN71-3 : 2013 + A1:2014 - Migration of certain elements	Pass
EN71-3 : 2013 + A2:2017 - Migration of certain elements	Pass
(3) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 - Phthalates content	Pass
(4) EN71-2 : 2011 + A1 : 2014 - Flammability Test	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

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 )
8.9	Soaking test

Clause	Requirement	Assessment
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	P
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
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



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Clause	Requirement	Assessment
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 : May 18, 2018

Test Period : May 18, 2018 to May 19, 2018

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(2) 19 Toxic Element Migration Test

Test Method : Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and/or Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(2)	(3)	(4)	
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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# TEST REPORT

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	Result (mg/kg)			Limit (mg/kg)
	(5)	(6)	(7)	
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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# TEST REPORT

Number : HKGH02300286

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

The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] was quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.

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

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# TEST REPORT

Number : HKGH02300286

Tested Components:

- (1) @ Silver color coating on plastic (logo).
- (2) Shiny black plastic (frame, connector, mouth piece).
- (3) Shiny black plastic (frame).
- (4) Shiny blue plastic (frame).
- (5) Black plastic (holder).
- (6) Grey plastic (holder).
- (7) Dull black plastic (buckle).
- (8) Blue plastic (stick).
- (9) Dull blue plastic (mouth piece).

Date sample received : May 18, 2018

Test Period : May 18, 2018 to May 23, 2018

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# TEST REPORT

Number : HKGH02300286

(3) Phthalate Content Test

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

Six Phthalate content:

Compound	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

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

Three Phthalate content :

Compound	Result (% , w/w)		Limit (% , w/w)
	(10)		
Dibutyl phthalate (DBP)	<0.01		--
Diethyl hexyl phthalate (DEHP)	<0.01		--
Benzyl butyl phthalate (BBP)	<0.01		--
Sum of DBP,DEHP & BBP	<0.01		0.1

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.

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# TEST REPORT

Number : HKGH02300286

Tested Components:

- (1) Silver color coating on plastic (logo).
- (2) Shiny black plastic (frame, connector, mouth piece).
- (3) Shiny black plastic (frame).
- (4) Shiny blue plastic (frame).
- (5) Black plastic (holder).
- (6) Grey plastic (holder).
- (7) Dull black plastic (buckle).
- (8) Blue plastic (stick).
- (9) Dull blue plastic (mouth piece).
- (10) Translucent plastic (filter).

Date sample received : May 18, 2018  
 Test Period : May 18, 2018 to May 23, 2018

(4) 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 : May 18, 2018  
 Test Period : May 18, 2018 to May 26, 2018

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End of report

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