

TEST REPORT

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

Number: HKGH02420249 S1

Date: Dec 17, 2019

Attn: STANLEY WU

This is to supersede Report No. HKGH02420249 dated May 23, 2019 due to information update.

Submitted sample said to be :
Item Name : **Junior Mask & Snorkel Set**
Ref. No. : **MS-1045S37**
Quantity : Five sets
Buyer : Dosenbach-Ochsner AG
Country of Origin : China
Date sample received : Mar 07, 2019, May 31, 2019, Jul 08, 2019, Nov 28, 2019
Testing period : Mar 07, 2019 to Dec 02, 2019



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 + A1: 2018 - 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
EN71-3 : 2013 + A3:2018 - Migration of certain elements	Pass
(4) BS EN 16805: 2015 Diving equipment - Diving mask - Requirements and test methods	Pass
(5) BS EN 1972 : 2015 Diving equipment - Snorkels - Requirements and test methods, excluding - Clause 3.4 Resistance to air flow	Pass
(6) UV-400	See details enclosed
(7) REACH Regulation (EC) no. 1907/2006, Annex XVII Item 51, amendment no. 552/2009 & 2018/2005 (Placed on the market after 7 July 2020) - Phthalate content	Pass



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(1) Physical and Mechanical Tests

Test Standard : European Standard on Safety of Toys EN71-1:2014 + A1: 2018

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	P
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
4.26	Toy Disguise Costumes	NA
4.27	Flying toys	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



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Clause	Requirement	Assessment
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 : Mar 07, 2019

Test Period : Mar 07, 2019 to Mar 11, 2019

(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

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 : Mar 07, 2019

Test Period : Mar 07, 2019 to Mar 11, 2019



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(3) 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)
	(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) ++	<0.025	<0.025	<0.025	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
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)	<4	<4	<4	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)
	(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
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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 chromium (VI) migration limit (0.053 mg/kg) for Category (III) was quoted from directive (EU) Directive 2018/725 amending 2009/48/EC effective from 18 November 2019.

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

Tested Components:

- (1) @ Black coating on plastic (logo of snorkel).
- (2) @ Shiny black coating on plastic (logo of mask, date code).
- (3) Translucent blue plastic (body of snorkel).
- (4) Translucent plastic (mouthpiece, ring of snorkel).
- (5) Transparent blue plastic (lens of mask).
- (6) Neon orange plastic (buckle of mask).
- (7) Blue plastic (frame of mask).
- (8) Translucent blue plastic (strap, gasket of mask).

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Test Period : Mar 07, 2019 to Mar 19, 2019



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(4) Safety Requirements For Diving Mask

Test Standard : BS EN 16805: 2015 Diving equipment - Diving mask - Requirements and test methods

Type of product : Diving mask

Number of samples tested : Four (4) pairs.

Notes :

(1) It is the applicant's responsibility to ensure that the materials of mask, including any anti-fogging compound specified by the manufacturer, that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effects to health.

(2) CE marking is not specified in BS EN16805:2015 but per Regulation (EU) 2016/425, Article 16 & Article 17, the CE marking shall be affixed visibly, legibly and indelibly to the sunglasses frame. The format of this CE marking was given in Annex II of Regulation (EC) No 765/2008.

It was found that the CE marking was provided on the swim mask.

Clause	Requirement	Result
3.1	Design	P
3.2	Lens	
3.2.1	General (Note (1))	P
3.2.2	Impact resistance	P
3.2.3	Break pattern	P
3.2.4	Lens seal	P
3.3	Head strap and attachment	P
3.4	Face seal	P
5	Marking (Note (2))	P
6	Information supplied by the manufacturer	P#1

Abbreviation : P = Pass

Remark:

#1 - It is recommended to specify the type of the mask (eg. Adult/Junior) on the instruction manual for user's reference.

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(5) Safety Requirements on Snorkel

Test Standard : BS EN 1972 : 2015 Diving equipment - Snorkels - Requirements and test methods

Number of samples tested : Two (2) pieces.

Note :

(1) It is the applicant's responsibility to ensure that the mouthpiece to be not likely to cause irritation or any other adverse effects to health.

(2) The dimension of the submitted snorkels were declared by applicant as Class B.

Clause	Requirement	Assessment
3.1	General	P
3.2	Dimensions	P
3.3	Mouthpiece	
	Material	See Note (1)
	Retention in the mouth	P
	Finishing	P
	Extension of tube beyond the mouthpiece	P
	Practical performance test	P
3.4	Resistance to air flow	NT
3.5	Joints	P
3.6	Optional devices	
3.6.1	Snorkel keeping device	P
3.6.2	Shut-off valves	NA
5	Marking	P
6	Information supplied by the manufacturer	P

Abbreviation : P = Pass; NA = Not Applicable; NT = Not tested

Date sample received : Mar 07, 2019, May 31, 2019 ,Jul 08, 2019, Nov 28, 2019

Testing period : Mar 07, 2019 to Dec 02, 2019



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(6) UV-400

Test Standard : Assessment was made against a level of 100% UV protection, in which the spectral transmittance was examined within a range of 280nm - 400nm to ensure that a transmittance value of 0.5% was not exceeded.

Number of sample tested : One (1) pair.

Result :

Wavelength (nm)	Transmittance (%) Left ocular	Transmittance (%) Right ocular
280	<0.10	<0.10
285	<0.10	<0.10
290	<0.10	<0.10
295	<0.10	<0.10
300	<0.10	<0.10
305	<0.10	<0.10
310	<0.10	<0.10
315	<0.10	<0.10
320	<0.10	<0.10
325	<0.10	<0.10
330	0.14	<0.10
335	<0.10	<0.10
340	<0.10	<0.10
345	<0.10	<0.10
350	0.12	<0.10
355	0.13	0.23
360	<0.10	<0.10
365	<0.10	<0.10
370	0.30	0.14
375	0.25	<0.10
380	<0.10	0.22
385	0.43	0.64*
390	7.47*	8.02*
395	28.88*	29.98*



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Wavelength (nm)	Transmittance (%) Left ocular	Transmittance (%) Right ocular
400	49.70*	49.95*

Abbreviation : * = exceeded 0.5%

Comment:

The submitted sample was considered **not acceptable** to make a claim of "UV 400" protection, the criteria of which was mentioned above.

Date sample received : Mar 07, 2019

Test Period : Mar 07, 2019 to Apr 03, 2019



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(7) Phthalate Content Test

Test Method : Solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

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	--
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	<0.01	<0.01	0.1

The above limit was quoted according to Annex XVII Item 51 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 & 2018/2005 with effective date after 7 July 2020 for articles placed on the market.

Tested Components:

- (1) Coating (black, shiny black) on plastic (logo of snorkel, mask, date code).
- (2) Translucent blue plastic (body of snorkel).
- (3) Translucent plastic (mouthpiece, ring of snorkel).
- (4) Transparent blue plastic (lens of mask).
- (5) Neon orange plastic (buckle of mask).
- (6) Blue plastic (frame of mask).
- (7) Translucent blue plastic (strap, gasket of mask).

Date sample received : Mar 07, 2019

Test Period : Mar 07, 2019 to Mar 19, 2019

End of report

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To: VASEN INTERNATIONAL LIMITED
Attention: STANLEY WU

Ref: FC-2019-12352
Date: Dec 17, 2019

Re : Report Revision Notification

Intertek Testing Services Report Number HKGH02420249 Dated May 23, 2019.

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services report, HKGH02420249 S1.

Thank you for your attention.

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



Cindy I.K. Chan
Vice President