

Test Report

Number: GZHH00325143

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

Date: Jun 10, 2019

Attn: Ally

Sample Description:

One (1) style of submitted sample said to be :
Item Name : **Mask And Snorkel Set**
Item No. : **MS-1396S25B**
Buyer : JULA
Country of Destination : Sweden
Country of Origin : China



Tests conducted:

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

To be continued

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines

Ben N.L. Lin
General Manager



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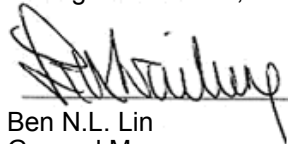
Conclusion:

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Tested component(8) of submitted sample	EN71-3:2013+A3:2018 on migration of certain elements	See comment
Other tested components of submitted sample	-Ditto-	Pass
Tested component(8) of submitted sample	EN71-3:2013+A3:2018 on migration of certain elements & EU 2018/725 amending 2009/48/EC (effective from Nov 18,2019) for chromium (VI) migration	See comment
Tested component(s) of submitted sample	<u>Test Item</u> Applicant's requirement on Phthalate content	Pass
	Applicant's requirement on N, N-Dimethyl Formamide content	Pass
Tested component(s) of submitted sample	<u>Standard</u> Short Chain Chlorinated Paraffin (C10 - C13) (SCCP) content requirement in Regulation (EC) No. 850/2004 & amendment Regulation EU 2015/2030	Pass
	<u>Test Item</u> Applicant's requirement on TXP content	Pass

Comment:

The testing scope of the following standard was not applicable to the tested component(8). However, the test results of the tested component(8) met the related requirements as stated in this report.

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1 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A3:2018 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(1)to(8)			
Aluminium (Al)	ND		300	70000
Antimony (Sb)	ND		10	560
Arsenic (As)	ND		10	47
Barium (Ba)	ND		10	18750
Boron (B)	ND		50	15000
Cadmium (Cd)	ND		5	17
Chromium (III) (Cr III) **	ND		10	460
Chromium (VI) (Cr VI) **	ND		0.025	0.2/0.053◎
Cobalt (Co)	ND		10	130
Copper (Cu)	ND		10	7700
Lead (Pb)	ND		10	23
Manganese (Mn)	ND		10	15000
Mercury (Hg)	ND		10	94
Nickel (Ni)	ND		10	930
Selenium (Se)	ND		10	460
Strontium (Sr)	ND		100	56000
Tin (Sn)	ND		2.5	180000
Organic tin **	ND		2.0	12
Zinc (Zn)	ND		100	46000

Remark : 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.

ND = Not detected (less than reporting limit)

◎ = The new chromium (VI) migration limit [(0.053mg/kg for Category (III))] were quoted from directive (EU) 2018/725 amending 2009/48/EC effective from 18 November 2019.

Tested Component(s): See component list in the last section of this report

Remark: As requested by the applicant, toxic elements content test were conducted only components listed in this report. Other components were not tested.



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(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Date sample received: May 22, 2019

Testing period: May 22, 2019 to May 30, 2019



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2 Phthalates Content

Solvent extraction, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	CAS No	Result (%)	Reporting limit (%)	Limit (%)
		Tested component		
		(4+5), (6+7)		
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	0.01	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	--
Dibutyl phthalate (DBP)	84-74-2	ND	0.01	--
Di-(iso-butyl) phthalate (DIBP)	84-69-5	ND	0.01	--
Sum of DEHP, BBP, DBP, DIBP	--	ND	--	0.1
Di-n-octyl phthalate (DNOP)	117-84-0	ND	0.01	--
Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.01	--
Di-iso-decyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	0.01	--
Sum of DNOP, DINP, DIDP	--	ND	--	0.1
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	0.01	0.1
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	0.01	0.1
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	ND	0.01	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND	0.01	0.1
Di-isopentyl phthalate (DIPP)	605-50-5	ND	0.01	0.1
n-pentyl iso-pentyl phthalate (nPIPP)	776297-69-9	ND	0.01	0.1
Dipentyl phthalate (DPP)	131-18-0	ND	0.01	0.1
Dihexyl phthalate (DnHP/DHEXP)	84-75-3	ND	0.01	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	0.01	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	0.01	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	0.01	0.1



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ND = Not detected

Tested Component(s): See components list in the last section of this report

Date sample received: May 22, 2019
 Testing period: May 22, 2019 to May 30, 2019

3 Formamide Content

By solvent extraction, followed by Gas Chromatographic – Mass Spectrometric (GC-MS) analysis.

Test item	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested component		
	(4+5), (6+7)		
N,N-Dimethyl formamide	ND	2	30

ND = Not detected

Tested Component(s): See component list in the last section of this report

As per applicant's request, composite test was conducted for submitted sample(s). And the results are for reference only.

Date sample received: May 22, 2019
 Testing period: May 22, 2019 to May 28, 2019

4 Short Chain Chlorinated Paraffins (C10 - C13) (SCCP) Content

Solvent extraction method was used, Short Chain Chlorinated Paraffin (C10 - C13) (SCCP) content was determined by Gas Chromatography-Mass Spectrometry (GC-MS).

Test item	Cas No.	Result (%)	Reporting limit (%)
		Tested component	
		(4+5), (6+7)	
Short Chain Chlorinated Paraffins (C10 - C13) (SCCP)	85535-84-8	ND	0.005

Requirement:
 Short Chain Chlorinated Paraffin's concentration should be lower than 0.15% in articles under Annex I Part B of the Regulation (EC) No. 850/2004 & amendment EU 2015/2030 on persistent organic pollutants (POPs).

ND = Not detected (less than reporting limit)



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Tested Component(s): See component list in the last section of this report

Remark: As requested by the applicant, Short Chain Chlorinated Paraffin (C10-C13) content test was conducted only on components listed in this report. Other components were not tested.

Date sample received: May 22, 2019
Testing period: May 22, 2019 to May 29, 2019

5 TXP Content

Solvent extraction, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	CAS No	Result (%)	Reporting limit (%)	Limit (%)
		Tested component (4+5), (6+7)		
Trixylyl phosphate (TXP)	25155-23-1	ND	0.01	0.1

ND = Not detected

Tested Component(s): See components list in the last section of this report

Date sample received: May 22, 2019
Testing period: May 22, 2019 to Jun 03, 2019

Components list:

- (1) Yellow plastic (mask frame).
- (2) Black plastic (mask frame).
- (3) Orange-red plastic (snorkel top).
- (4) Transparent soft plastic (mask skirt).
- (5) Semi-transparent soft plastic (mask head strap).
- (6) Yellow soft plastic (snorkel tube).
- (7) Semi-transparent soft plastic (snorkel mouthpiece).
- (8) Transparent glass (mask lens).
- (9) @ White coating on glass (mask lens).

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

End of report

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