

CONSUMER PRODUCTS SERVICES DIVISION

## SIAG INTERNATIONAL LTD

(8519)262-0821 October 08, 2019 **Technical Report:** Date Received: September 20, 2019 Page 1 of 9

SIMON CHAN SIAG INTERNATIONAL LTD ROOM 607, YEN SHENG CENTRE 64 HOI YUEN ROAD **KWUN TONG KOWLOON** HONG KONG

Sample Description: **ALUMINUM WHISTLE** 

> 1.) A 2.) B

Vendor:

SIAG INTERNATIONAL LTD Sample Size: 10 Manufacturer: NINGBO HAIKAI Style No(s): N/A

INTERNATIONAL TRADE CO.

I TD

LASER GIFTS SKN/SKU No.: N/A Buyer: Labeled Age Grade: NOT PRESENT PO No.: 6018 Appropriate Age Grade: NOT REQUESTED Ref#: N/A Client Specified Age Country of Origin: **CHINA** 

Grade:

Tested Age Grade: **OVER 3 YEARS OF AGE** 

Assortment No.: UPC Code: N/A

**USA AND CANADA** Country of Destination:

TEAL/PURPLE Color: Item#: MW

## **EXECUTIVE SUMMARY:**

The sample(s) MEET the following requirement(s):

- The flammability requirement of solids under ASTM F963-17 section 4.2 according to Annex A5, "Flammability testing procedure for solids and soft toys".
- The mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".
- The soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).
- The initial total cadmium content analysis for extractable cadmium content in metallic small parts requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2 (2)(c).
- The total lead content of 100ppm requirements by composite testing in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).

The sample(s) was tested to the following requirement(s) and the data provided is for informational purposes only:

The initial total heavy metals content analysis for soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).

N/A



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# **EXECUTIVE SUMMARY:**

Note: The sample(s) was not evaluated to the Normal Use testing requirements specified in ASTM F963-17,

Section 8.5. It is the responsibility of the manufacturer, vendor or distributor to conduct tests that will simulate normal use conditions. These tests shall ensure that hazards are not generated through normal wear and deterioration of the sample(s). These tests shall also simulate the normal play mode of the toy and to simulate the expected mode of use of the particular toy. The tests shall be conducted in an expected use environment. These normal use tests shall simulate the intended use of the toy based on its estimated

lifetime.

Note: No relevant packaging was provided with the submitted sample(s). Consequently, evaluation of the

applicable labelling requirements of the ASTM F963, "Standard Consumer Safety Specification on Toy

Safety", was not conducted.

Note: At the request of the client, the sample(s) was evaluated for use by children 3+.

Note: No accessible surface coating was present on the received sample(s). Consequently, the lead content

analysis of surface coatings according to modified 16 CFR 1303, "Ban of lead-containing paint and certain consumer products bearing lead-containing paint" (Consumer Products Safety Improvement Act (CPSIA) of

2008), was not conducted.

Note: No accessible surface coating was present on the received sample(s). Consequently, the heavy metals

content analysis of surface coatings according to ASTM F963-17, "Standard consumer safety specification

on toy safety", Section 4.3.5.1(2), was not conducted.

BUREAU VERITAS SHENZHEN CO., LTD.

Hon Yin Kan Manager

Toys And Juvenile Products Department

HK/zm



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## **RESULTS:**

#### APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety". Annex A1

Note: The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for

testing.

Note: If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products

Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

#### **USE AND ABUSE TESTS**

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable								
Test	Test Parameters	Standard Reference						
Impact Test	4 x 3 ft	1500.53(b)						
Torque Test	4 in-lbs	1500.53(e)						
Tension Test	15 lbs	1500.53(f)						
Compression Test	30 lbs	1500.53(g)						



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# **RESULTS:**

# PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)

Section	Requirement	Result
4.1	Material Quality	M
4.3.7	Stuffing Materials	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	M
4.7	Accessible Edges	M
4.8	Projections	N/A
4.9	Accessible Points	M
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	N/A
4.12	Plastic Film	N/A
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearances and Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys	N/A
	(exclude Section 4.25.10 Battery-powered ride-on toys & Section 4.25.11 Toys that Contain Secondary Cells or Secondary Batteries)	
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.30	Toy Gun Marking	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.34	Small Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A



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## **RESULTS:**

# FLAMMABILITY (ASTM F963-17 section 4.2 according to Annex A5)

Requirement	Test Method Reference	Findings
Burn rate no greater than 0.1 of an inch per second	ASTM F963-17 section 4.2 according to Annex A5	Did not ignite.

## TOTAL LEAD CONTENT IN SUBSTRATE BY COMPOSITE TESTING (100PPM) (Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1001-08.3:2012 or U.S. CPSC-CH-E1002-08.3:2012

Analyte	Lead
Requirement: Maximum allowable limit:	100 mg/kg

Ana	lyte		Lead (Pb)		
	Sample	Result	Conclusion		
	Color / Component	Location	Style	(mg/kg)	
(A)	Translucent plastic	inner whistle	A,B	LT 10	Pass
(B)	Magenta plate silvery metal	whistle	Α	LT 10	Pass
(C)	Blue plate silvery metal	whistle	В	LT 10	Pass
(D)	Bright silvery metal	loop	A,B	LT 10	Pass

mg/kg = milligrams per kilogram (ppm = parts per million)

LT = Less Than
\* = Average of duplicate analyses



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#### **RESULTS:**

# TOTAL HEAVY METALS CONTENT – INITIAL ANALYSIS FOR SOLUBLE HEAVY METALS CONTENT IN SUBSTRATE (ASTM F963-17, Section 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Sample Identity		Co	olor			Location			Style
Type I: Subs	trate other	than mode	eling clay						
A.	Bright si	lvery meta			loop				A,B
	_				_				
Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se	
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500	
Max. Limit Type II (mg/kg)	25	250	50	25	25	90	60	500	
		T _	r	_		r			
Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Sample		Result (mg/kg)							Condidation
Α	43	LT 10	LT 10	350	LT 5	LT 10	LT 10	LT 10	Data

mg/kg = milligrams per kilogram (ppm=parts per million)

As = Arsenic, Ba = Barium, Cd = Cadmium,

LT = Less Than

Cr = Chromium, Hg = Mercury, Pb = Lead,

ND = None Detected

Sb = Antimony, Se = Selenium

Detection limit (mg/kg): As and Cr = 7, Hg = 5, other elements = 10

#### Remark:

Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.

On an initial analysis for soluble heavy metals content, any individually tested component of greater than the set limit or any composite tested components of greater than 80% of the set limit, the result is inconclusive for the requirement and therefore were retested with soluble heavy metals analysis of ASTM F963-17, Sections 8.3.5 (excluding 8.3.5.5(3)) as specified in Section 8.3.1.3. The result herein is for reference only (show data), please refer to soluble heavy metals content analysis for the corresponding conclusive results.



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## **RESULTS:**

# TOTAL CADMIUM CONTENT - INITIAL SCREENING FOR EXTRACTABLE CADMIUM CONTENT IN METALLIC SMALL PARTS (ASTM F963-17, Section 4.3.5.2(2)(c))

Test Method: ASTM F963-17, Section 8.3.1 and Annex A7.

Analyte	Cadmium
Maximum allowable limit	75 mg/kg <sup>[a]</sup>

Anal	yte			Cadmium (Cd)	
	Sample I	Description		Result	Conclusion
	Color / Component	Location	Style	(mg/kg)	
(A)	Bright silvery metal	loop	A,B	LT 10	PASS

mg/kg = milligrams per kilogram (ppm=parts per million)
\* = Average of duplicate analysis

Detection limit (mg/kg): 10

LT = Less Than ND = None Detected

#### Remark:

<sup>[a]</sup> denotes as this maximum allowable limit is recommended by Bureau Veritas Consumer Products Services, Inc. and finalized by Toy Industry Association, Inc.



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**PASS** 

## **RESULTS:**

## SOLUBLE HEAVY METALS CONTENT IN SUBSTRATE (ASTM F963-17, Section 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3))

Sample Identity			Location				Style			
Type I: Subs	trate other	than mod	eling clay	,						
Α	Bright silv	very meta	l		loop					A,B
Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se		
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500		
Max. Limit Type II (mg/kg)	25	250	50	25	25	90	60	500		
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%		
		1 _								
Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Sample		Result (mg/kg)							(g)	

mg/kg = milligrams per kilogram (ppm=parts per million)

LT 2

LT 2

LT 2

CR = adjusted analytical result

LT 2

LT = Less Than

ND = None Detected

As = Arsenic, Ba = Barium, Cd = Cadmium,

Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium

Detection limit (mg/kg): Each element 2

LT 2

# Remark:

Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.

LT 2

LT 2

LT 2



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# **RESULTS:**



**END OF REPORT**