



Test Report

Date : 2022-11-03

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No. : SP22100192

Applicant : Hayes Specialties Corporation
1761 East Genesee Saginaw, MI 48601-2407

Attn: Michael

Description of Samples : One (1) group of submitted samples said to be:
Excalibur Sword - 29 Inches w/Sheath - Assorted Colors
STYLE NO.: 17508
P.O.NO.:342625
COUNTRY OF ORIGIN:CHINA
COUNTRY OF DESTINATION:USA
AGE GRADING FOR TESTING:3+

Date Samples Received : 2022-10-21

Date Tested : 2022-10-21 to 2022-10-28

Requirements	Conclusion
1. ASTM Standard Consumer Safety Specification For Toy Safety F 963-17 - physical and mechanical test - flammability test - heavy metal test	Pass
2. US Consumer Product Safety Improvement Act - Total Lead content in substrate in accordance with Sec. 101(a). - Phthalates content in accordance with Sec 108 and 16 CFR 1307.	Pass
3. The Total Lead content requirements according to the California Proposition 65	Pass
4.The BBP, DBP, DEHP, DnHP, DINP and DIDP content requirements according to the California Proposition 65.	Pass
5.Total cadmium content requirements according to the California Proposition 65.	Pass
6.The Total Lead content requirements according to Illinois Public Act 095-1019	Pass
7.The Phthalates content requirements according to California Assembly Bill NO.1108	Pass
8. San Francisco Health Code - Phthalates content in accordance with Article 34, sec 34.2	Pass

Remark:This Test Report supersedes our previous Test Report No. SP22100192 issued on 2022-10-28 which is hereby deemed null and void.

A handwritten signature in black ink that reads 'James Chen'.

CHEN Lufeng, James
Authorized Signatory



STC (Shanghai) Company Limited

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The following test item(s) was/were performed on submitted sample(s) and/or components confirmed by applicant.

Item No.	Component Description
<u>Plastic materials:</u>	
<u>1</u>	Plastic of sword:grey
<u>2</u>	Plastic of sword:brown

Test Results:

1. ASTM Standard Consumer Safety Specification for Toy Safety F 963-17

AGE GRADING:

The sample did not contain an age grade; however, the applicant requested it be tested according to the age grade of 36 months and up.

AGE GRADING FOR TESTING:

36 months and up.

1.1 Mechanical and physical hazards of the submitted sample

Ref.: ASTM F 963-17

Applicable requirements before and after use and abuse testing:

Applicable

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	----
4.1	Material Quality	Pass
4.2	Flammability	Pass* ¹
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
5	<u>Labeling Requirements</u>	----
5.2	Age grading labeling	* ²
5.16	Promotional Materials	Pass
7	<u>Producer's Markings</u>	----
7.1	Producer's Name and Address	Pass

*¹ = Please refer to section 1.2 of this report for details.

*² = See age grading.

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Test Results:

Use and abuse testing:

Applicable

<u>Section</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal Use Testing	
8.6	Abuse Testing	
8.7	Drop Tests	4 drops at 3 ft.
8.8	Torque Tests	4 in-lbs
8.9	Tension Tests	15 lbs.
8.10	Compression Tests	30 lbs.

1.2 Flammability test for solids and soft toys

Ref.: ASTM F963-17 Section 4.2

Method used: FHSA 16CFR 1500.44

Result: Pass

Sample

Sword

Burn rate (in/sec.)

DNI

DNI = Did not ignite

Note: In accordance with the FHSA, the burn rate should not be greater than 0.1 in. per second.

1.3 Heavy metal test

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

4.3.5.2 Toys Substrate Materials

Total lead test

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
1+2	<10ppm	100ppm

Soluble metals test:

	<u>1</u>	<u>2</u>	<u>Limit</u>
Soluble lead.	<5ppm	<5ppm	90ppm
Soluble cadmium	<5ppm	<5ppm	75ppm
Soluble chromium	<5ppm	<5ppm	60ppm
Soluble barium	<5ppm	<5ppm	1000ppm
Soluble antimony	<5ppm	<5ppm	60ppm
Soluble arsenic	<2ppm	<2ppm	25ppm
Soluble mercury	<5ppm	<5ppm	60ppm
Soluble selenium	<5ppm	<5ppm	500ppm

Note: < denotes less than.

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Test Results:

2. US Consumer Product Safety Improvement Act

2.1 Children's products containing lead - Total Lead content in substrate

Ref.: CPSIA Sec 101(a)

Test method: CPSC-CH-E1002-08.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1+2</u>	<10ppm	100ppm

Note: < denotes less than.

2.3 Phthalates content

Ref.: CPSIA Sec 108 and 16 CFR 1307

Determined by: Gas Chromatography with Mass Selective Detector

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>	<u>Limit (ppm)</u>
		<u>1+2</u>	
Di-n-butyl phthalate (DBP)	84-74-2	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	1000

Note: < denotes less than.

3. The Total Lead Content

Ref.: California Proposition 65

Test method: CPSC-CH-E1003-09.1 & CPSC-CH-E1002-08.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1+2</u>	<10ppm	100ppm

Note: < denotes less than.

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Test Results:

4. The BBP, DBP, DEHP, DnHP, DINP and DIDP content

Ref.: California Proposition 65

Determined by: Gas Chromatography with Mass Selective Detector

	<u>1+2</u>
Di-n-butyl phthalate (DBP)	<100ppm
Benzyl-n-butyl phthalate (BBP)	<100ppm
Di (2-ethylhexyl) phthalate(DEHP)	<100ppm
Di-n-Hexyl phthalate (DnHP)	<100ppm
Di-iso-nonyl phthalate(DINP)	<100ppm
Di-iso-decyl phthalate(DIDP)	<100ppm

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than.

5. The Total cadmium content

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Client's Requirement</u>
<u>1+2</u>	<5ppm	40ppm

Note: < denotes less than.

6. The Total Lead Content requirements according to Illinois Public Act 095-1019

Test method: CPSC-CH-EI003-09.1 & CPSC-CH-EI002-08.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1+2</u>	<10ppm	40ppm

Note: < denotes less than.

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Test Results:

7. Phthalates content

Ref.: California Assembly Bill NO.1108

Determined by: Gas Chromatography with Mass Selective Detector

A. Any toy or children article

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>	<u>Limit(ppm)</u>
		<u>1+2</u>	
Dibutyl phthalate(DBP)	84-74-2	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	1000

B. Any toys and children articles which can be placed in mouth for children under 3 years

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>	<u>Limit(ppm)</u>
		<u>1+2</u>	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	1000

Note: < denotes less than.

8. Phthalates content

Ref.: San Francisco Health Code Article 34, sec 34.2

Determined by: Gas Chromatography with Mass Selective Detector

	<u>1+2</u>
Di-n-butyl phthalate (DBP)	<100ppm
Benzyl-n-butyl phthalate (BBP)	<100ppm
Di (2-ethylhexyl) phthalate(DEHP)	<100ppm
Di-n-Hexyl phthalate (DnHP)	<100ppm
Di-iso-nonyl phthalate(DINP)	<100ppm
Di-iso-decyl phthalate(DIDP)	<100ppm

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than.

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The photo of submitted samples



Photo(s) of Client Reference

(At the request of client ,the reference photo(s) in this report is provided by applicant and is for reference only.)

******* End of Test Report *******

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