Date : 2022-09-08



Test Report

No. : SP22090009		rage i	01 10
Applicant	:	Hayes Specialties Corporation 1761 East Genesee Saginaw, MI 48601	
Buyer Supplier	:	Attn: MIKE HAYES SPECIALTIES CORP X	
Description of Samples	:	One (1) group of submitted samples said to be: SEE PAGE 2 STYLE NO.: SEE PAGE 2 P.O. NO.:#342495 COUNTRY OF ORIGIN:CHINA COUNTRY OF DESTINATION: USA AGE GRADING FOR TESTING:ABOVE 3 YEARS	
Date Samples Received	:	2022-09-01	
Date Tested	:	2022-09-01 to 2022-09-08	
Requirements			Conclusion
1.ASTM Standard Consun - physical and mechanical - flammability test - heavy metal test		Safety Specification For Toy Safety F 963-17 (Apart from clause 7.1)	Pass
2.US Consumer Product S - Total Lead content in sub - Phthalates content in acc	ostra orda	te in accordance with Sec. 101(a). Ince with Sec 108 and 16 CFR 1307.	Pass
3. The Total Lead content	requ	irements according to the California Proposition 65	Pass
4. The BBP, DBP, DEHP, California Proposition	Dnl	HP, DINP and DIDP content requirements according to the	Pass
5 Total cadmium content	rear	irements according to the California Proposition 65	Pass

Pass 5. Total cadmium content requirements according to the California Proposition 65. 6. The Total Lead content requirements according to Illinois Public Act 095-1019 7. The Phthalates content requirements according to California Assembly Bill NO.1108. Pass Pass 8. San Francisco Health Code- Phthalates content in accordance with Article 34, sec 34.2 Pass

Javor cher

CHEN Lufeng, James Authorized Signatory

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ITEM	DESCRIPTION
HX4894	Medium Plush Rainbow Dog- Poodle- 12 Inch
HX4895	Large Plush Rainbow Dog- Poodle- 16 Inch
HX4896	Giant Plush Rainbow Dog- Poodle- 22 Inch
HX4897	Medium Plush Caticorn- 10 Inch
HX4898	Giant Plush Caticorn- 16 Inch
HX4899	Large Plush Narwhal- 14 Inch
HX4900	Small Plush Cartoon Fish- 9 Inch
HX4901	Medium Plush Cartoon Fish- 12 Inch
HX4902	Large Plush Cartoon Fish- 20 Inch

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

Item No.	Component Description
Plastic ma	terials:
1.	Plastic eyes:brown with black
2.	plastic eye: black
Textile ma	
3.	Cartoon Fish body:green with pink and multicolor
4.	Cartoon Fish body:blue with purple and multicolor
5.	Cartoon Fish body: light green with orange and multicolor
6.	String on fish:yellow
7.	String on fish:green
8.	String on fish:blue
9.	Rainbow Dog body:multicolor
10.	Nose of rainbow dog:black
11.	Face of rainbow dog:white
12.	Body of Plush Narwhal:pink with multicolor
13.	Belly of Plush Narwhal:white
14.	Thread eyes of Plush Narwhal:white with black
15.	Thread on Narwhal:pink,yellow with blue
16.	Body of Plush Caticorn:pink
17.	Eyes of Plush Caticorn:purple with white and black
18.	Hair of Plush Caticorn:purple
19.	Thread on chest:pink
Other mate	erials:
20.	Fabric with coating on horn:multicolor * ⁴
21.	Fabric with coating on belly:green * ⁴

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Test Results:

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

AGE GRADING:

The sample was age graded with the marking of "5+";however,it was considered appropriate for children of all ages.

AGE GRADING FOR TESTING:

all ages.

.

1.1 Mechanical and physical hazards of the submitted sample

Ref.: ASTM F 963-17

Applicable requirements before and after use and abuse testing:

<u>Applicable</u>		
Section	Description	Result
4	Safety requirements	
4.1	Material Quality	Pass
4.2	Flammability	Pass*1
4.3	Toxicology	
4.3.7	Stuffing Material	Pass
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.14	Cords, Straps, and Elastics	Pass
4.27	Stuffed and Beanbag-Type Toys	Pass
5	Labeling Requirements	
5.2	Age grading labeling	*2
7	Producer's Markings	
7.1	Producer's Name and Address	*3

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

 $*^2$ = See age grading.

 $*^{3}$ = No all information=There were no producer's/distributor's name and address on the submitted sample.

Use and abuse testing:

Applicable Section 8.5	Description Normal Use Testing	Test Condition
8.6 8.7 8.8	Abuse Testing Drop Tests Torque Tests	10 drops at 3 ft. 4 in-lbs or $\pm 180^{\circ}$.
8.9 8.10	Tension Tests Compression Tests	15 lbs. 30 lbs.

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Test Results:

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	Burn rate (in/sec.)
HX4894	DNI
HX4895	DNI
HX4896	DNI
HX4897	DNI
HX4898	DNI
HX4899	DNI
HX4900	DNI
HX4901	DNI
HX4902	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 analysis

Sample Sample	<u>Result</u>	<u>Limit</u>
1	<10ppm	100ppm
<u>2</u>	<10ppm	100ppm
<u>20+21</u>	17ppm	100ppm

Note: < denotes less than.

Soluble metals test

 $*^4$ = The material is less than 10mg, so it is not necessary to conduct the test according to the standard.

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>Limit</u>
Soluble lead	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium	12ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony	<5ppm	<5ppm	33.2ppm^	38.4ppm^	60ppm
Soluble arsenic	<5ppm	<5ppm	<5ppm	<5ppm	25ppm
Soluble mercury	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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Test Results:

Soluble lead Soluble cadmium Soluble chromium Soluble barium Soluble antimony Soluble arsenic Soluble mercury Soluble selenium	<u>5</u> <5ppm <5ppm <5ppm 44.4ppm^ <5ppm <5ppm	<u>6</u> <5ppm <5ppm <5ppm <5ppm <5ppm <5ppm <5ppm	7 <5ppm <5ppm <5ppm <5ppm <5ppm <5ppm <5ppm	<u>8</u> <5ppm <5ppm <5ppm <5ppm <5ppm <5ppm	<u>Limit</u> 90ppm 75ppm 60ppm 1000ppm 60ppm 25ppm 60ppm 500ppm
Soluble lead Soluble cadmium Soluble chromium Soluble barium Soluble antimony Soluble arsenic Soluble mercury Soluble selenium.	<u>9</u> <5ppm <5ppm <5ppm 8ppm <5ppm <5ppm	<u>10</u> <5ppm <5ppm <5ppm <5ppm <5ppm <5ppm	<u>11</u> <5ppm <5ppm <5ppm 20ppm <5ppm <5ppm	<u>12</u> <5ppm <5ppm <5ppm <5ppm <5ppm <5ppm	<u>Limit</u> 90ppm 75ppm 60ppm 1000ppm 60ppm 25ppm 60ppm 500ppm
Soluble lead Soluble cadmium Soluble chromium Soluble barium Soluble antimony Soluble arsenic Soluble mercury Soluble selenium	<u>13</u> <5ppm <5ppm <5ppm 20ppm <5ppm <5ppm <5ppm	<u>14</u> <5ppm <5ppm <5ppm <5ppm <5ppm <5ppm	<u>15</u> <5ppm <5ppm <5ppm 6ppm <5ppm <5ppm <5ppm	<u>16</u> <5ppm <5ppm <5ppm <5ppm <5ppm <5ppm	<u>Limit</u> 90ppm 75ppm 60ppm 1000ppm 60ppm 25ppm 60ppm 500ppm
Soluble lead Soluble cadmium	<u>17</u> <5ppm	<u>18</u> <5ppm	<u>19</u> <5ppm		<u>Limit</u> 90ppm

Note: < denotes less than.

[^] =The reported value is an adjusted analytical value calculated in accordance with the standard ASTMF963 section 8.3.4.3

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Test Report

Limit

100ppm

100ppm

100ppm

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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)

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Result

<10ppm

<10 ppm

17ppm

 $\frac{\text{Sample}}{\frac{1}{2}}$ 20+21

Note: < denotes less than.

2.2 Phthalates content

Ref.: CPSIA Sec 108 and 16 CFR PART 1307 Determined by: Gas Chromatography with Mass Selective Detector

Tast Itom	CASNo		Limit		
<u>Test Item</u>	<u>CAS No.</u>	<u>1</u>	2	<u>20+21</u>	<u>(ppm)</u>
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

Note: < denotes less than.

3. The Total Lead Content

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Sample	Result	<u>Limit</u>
<u>1</u>	<10ppm	100ppm
<u>2</u>	<10ppm	100ppm
<u>20+21</u>	17ppm	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</u>	<u>2</u>	<u>20+21</u>
-	Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm
-	Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm
-	Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm
-	Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm
-	Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm
-	Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm

Note: < denotes less than.

5. The Total cadmium content

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Sample	Result	<u>Limit</u>
<u>1</u>	<5ppm	75ppm
<u>2</u>	<5ppm	75ppm
<u>20+21</u>	<5ppm	75ppm

Note: < denotes less than.

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

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1</u>	<10ppm	40ppm
2	<10ppm	40ppm
20+21	17ppm	40ppm

Note: < denotes less than.

7. Phthalates content

Ref.: California Assembly Bill NO.1108 Determined by: Gas Chromatography with Mass Selective Detector

A. Any toy or children article

Test Item	CAS No.	Result(ppm)			Limit(nnm)
<u>Test item</u>	<u>CAS NO.</u>	<u>1</u>	<u>2</u>	<u>20+21</u>	Limit(ppm)
Dibutyl phthalate(DBP)	84-74-2	<100	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	<100	1000

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Test Results:

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

Test Item	CAS No.	<u>Result(ppm)</u>			Limit(nnm)
<u>Test Item</u>		<u>1</u>	<u>2</u>	<u>20+21</u>	Limit(ppm)
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<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</u>	<u>2</u>	<u>20+21</u>
-	Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm
-	Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm
-	Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm
-	Di-n-octyl phthalate (DNOP)	<100ppm	<100ppm	<100ppm
-	Diisononyl phthalate (DINP)	<100ppm	<100ppm	<100ppm
-	Diisodecyl phthalate (DIDP)	<100ppm	<100ppm	<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



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- 5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report. The Clients provide the sample's relevant information, and the Company will not be liable for or accept responsibility for the truth of the sample information.
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