

Test Report

Date : 2022-03-17
No. : SP22030100

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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:
Growing Eggs
STYLE NO.: 16973 16974 16975 16976
COUNTRY OF ORIGIN: CHINA
AGE GRADING FOR TESTING: 3+

Date Samples Received : 2022-03-07

Date Tested : 2022-03-07 to 2022-03-11

Requirements
1. ASTM Standard Consumer Safety Specification For Toy Safety F 963-17 - physical and mechanical test (Apart from clause 7) - flammability test - heavy metal test
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.
The Total Lead content requirements according to the California Proposition 65
4.The BBP, DBP, DEHP, DnHP, DINP and DIDP content requirements according to the California Proposition 65.
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
8. San Francisco Health Code - Phthalates content in accordance with Article 34, sec 34.2



CHEN Lufeng, James
Authorized Signatory



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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>Coating materials:</u>	
<u>1</u>	Coating on egg: silver ^{#1}
<u>2</u>	Coating on egg: white
<u>3</u>	Coating on egg: green ^{#1}
<u>4</u>	Coating on snake/turtle: green ^{#1}
<u>Plastic materials:</u>	
<u>5</u>	Substrate of egg: beige ^{#1}
<u>6</u>	Substrate of egg: white ^{#1}
<u>7</u>	Substrate of snake/turtle: yellow ^{#1}
<u>Others materials:</u>	
<u>8</u>	Glue: transparent

Remark: #1 denotes This Results of these test points refer to our previous Test Report, No. SP21050003 issued on 2021-05-12.

Test Results:

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

AGE GRADING:

The sample was appropriately age graded with the marking of “3+”.

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:

<u>Applicable 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
4.40	Expanding Materials	Pass
5	<u>Labeling Requirements</u>	----
5.2	Age grading labeling	Pass
6	Instructional Literature	----
6.1	Definition and Description	Pass
7	<u>Producer's Markings</u>	----
7.1	Producer's Name and Address	*5

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

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Test Results:

*⁵=No all information = There were no producer's/ distributor's name and address on the submitted sample.

Use and abuse testing:

<u>Applicable</u> <u>Section</u>	<u>Description</u>	<u>Test Condition</u>
8.7	Drop Tests	4 drops at 3 ft.
8.8	Torque Tests	4 in-lbs or $\pm 180^\circ$
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

<u>Sample</u>	<u>Burn rate (in/sec.)</u>
growing eggs	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

4.3.5.1 Paint and similar surface-coating

Total lead analysis

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Comment</u>
<u>1</u>	<10ppm	90ppm	Pass
<u>2</u>	<10ppm	90ppm	Pass
<u>3</u>	<10ppm	90ppm	Pass
<u>4</u>	<10ppm	90ppm	Pass

Soluble metals test:

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

4.3.5.2 Toys Substrate Materials

Total lead test

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Comment</u>
<u>5</u>	<10ppm	100ppm	Pass
<u>6</u>	<10ppm	100ppm	Pass
<u>7</u>	<10ppm	100ppm	Pass
<u>8</u>	<10ppm	100ppm	Pass

Note: < denotes less than.

2. US Consumer Product Safety Improvement Act

2.1 Children's products containing lead - Total Lead content in paint and surface coating

Ref.: CPSIA Sec 101(f) and 16 CFR 1303

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Comment</u>
<u>1</u>	<10ppm	90ppm	Pass
<u>2</u>	<10ppm	90ppm	Pass
<u>3</u>	<10ppm	90ppm	Pass
<u>4</u>	<10ppm	90ppm	Pass

Note: < denotes less than.

2.2 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>Comment</u>
<u>5</u>	<10ppm	100ppm	Pass
<u>6</u>	<10ppm	100ppm	Pass
<u>7</u>	<10ppm	100ppm	Pass
<u>8</u>	<10ppm	100ppm	Pass

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Note: < denotes less than.

2.3 Phthalates content

Ref.: CPSIA Sec 108 and 16 CFR 1307

Determined by: Gas Chromatography with Mass Selective Detector

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		1+3	2	4	
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
Comment		Pass	Pass	Pass	---

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		5+6+7	8	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000
Comment		Pass	Pass	---

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

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Test Results:

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Comment</u>
<u>1</u>	<10ppm	90ppm	Pass
<u>2</u>	<10ppm	90ppm	Pass
<u>3</u>	<10ppm	90ppm	Pass
<u>4</u>	<10ppm	90ppm	Pass
<u>5</u>	<10ppm	100ppm	Pass
<u>6</u>	<10ppm	100ppm	Pass
<u>7</u>	<10ppm	100ppm	Pass
<u>8</u>	<10ppm	100ppm	Pass

Note: < denotes less than.

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

Ref.: California Proposition 65

Determined by: Gas Chromatography with Mass Selective Detector

	<u>1+3</u>	<u>2</u>	<u>4</u>
Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm
Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm
Di (2-ethylhexyl) phthalate(DEHP)	<100ppm	<100ppm	168ppm
Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm
Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm
Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm
Comment	Pass	Pass	Pass

	<u>5+6+7</u>	<u>8</u>
Di-n-butyl phthalate (DBP)	<100ppm	<100ppm
Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm
Di (2-ethylhexyl) phthalate(DEHP)	<100ppm	<100ppm
Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm
Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm
Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm
Comment	Pass	Pass

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

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<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Comment</u>
<u>1</u>	<5ppm	75ppm	Pass
<u>2</u>	<5ppm	75ppm	Pass
<u>3</u>	<5ppm	75ppm	Pass
<u>4</u>	<5ppm	75ppm	Pass
<u>5</u>	<5ppm	75ppm	Pass
<u>6</u>	<5ppm	75ppm	Pass
<u>7</u>	<5ppm	75ppm	Pass
<u>8</u>	<5ppm	75ppm	Pass

Note: < denotes less than.

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

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>Comment</u>
<u>1</u>	<10ppm	40ppm	Pass
<u>2</u>	<10ppm	40ppm	Pass
<u>3</u>	<10ppm	40ppm	Pass
<u>4</u>	<10ppm	40ppm	Pass
<u>5</u>	<10ppm	40ppm	Pass
<u>6</u>	<10ppm	40ppm	Pass
<u>7</u>	<10ppm	40ppm	Pass
<u>8</u>	<10ppm	40ppm	Pass

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

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>			<u>Limit(ppm)</u>
		<u>1+3</u>	<u>2</u>	<u>4</u>	
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
Comment		Pass	Pass	Pass	---

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Test Results:

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		5+6+7	8	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	1000
Comment		Pass	Pass	---

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

Test Item	CAS No.	Result(ppm)			Limit(ppm)
		1+3	2	4	
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
Comment		Pass	Pass	Pass	---

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		5+6+7	8	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	1000
Comment		Pass	Pass	---

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

	1+3	2	4
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
Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm
Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm
Comment	Pass	Pass	Pass

	5+6+7	8
Di-n-butyl phthalate (DBP)	<100ppm	<100ppm
Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm
Di (2-ethylhexyl) phthalate(DEHP)	<100ppm	<100ppm
Di-n-octyl phthalate(DNOP)	<100ppm	<100ppm
Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm
Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm
Comment	Pass	Pass

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



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

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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.
6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) with 95% coverage probability will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.
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