



Test Report

Date : 2024-04-18
No. : SP24040165

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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:
18403-20 Piece Dinosaur Set in Skull- 6 Sets Per Display Box
18404-Build a Dinosaur- 6 Inch- w/
Screwdriver and Bolts Included- Assorted
COUNTRY OF ORIGIN:CHINA
COUNTRY OF DESTINATION:USA
AGE GRADING FOR TESTING:3+

Date Samples Received : 2024-04-10

Date Tested : 2024-04-10 to 2024-04-18

Requirements	Conclusion
1. ASTM Standard Consumer Safety Specification For Toy Safety F 963-17 - physical and mechanical test - flammability test - heavy metal test	See Test Results
2. ASTM Standard Consumer Safety Specification For Toy Safety F 963-23 - physical and mechanical test - flammability test - heavy metal test - Phthalates test	See Test Results
3. US Consumer Product Safety Improvement Act - Total Lead content in paint and surface coating in accordance with Sec. 101 (f) and 16 CFR 1303. - Total Lead content in substrate in accordance with Sec. 101(a). - Phthalates content in accordance with Sec 108 and 16 CFR 1307.	Pass
4. The Total Lead content requirements according to the California Proposition 65	Pass
5. The BBP, DBP, DEHP, DnHP, DINP and DIDP 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

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 plastic:black *2*4
<u>Plastic materials:</u>	
<u>2</u>	Plastic part:golden
<u>3</u>	Plastic tool:light blue
<u>4</u>	Plastic tool:yellow
<u>5</u>	Plastic part:deep green
<u>6</u>	Plastic part:light green
<u>7</u>	Plastic part:grey
<u>8</u>	Plastic part:deep brown
<u>9</u>	Plastic dinosaur head:milk white
<u>10</u>	Plastic fence:deep brown
<u>11</u>	Plastic dinosaur:yellow
<u>12</u>	Plastic dinosaur:light blue
<u>13</u>	Plastic dinosaur:green
<u>14</u>	Plastic dinosaur:red
<u>15</u>	Plastic plant:deep green
<u>16</u>	Plastic obstacle:red brown
<u>17</u>	Plastic dinosaur:blue

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:

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Test Results:

<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
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.12	Plastic Film	Pass
5	<u>Labeling Requirements</u>	----
5.1	Federal Government Requirements	Pass
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.11	Small objects, Small Balls, Marbles and Balloons	Pass
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.

Use and abuse testing:

<u>Applicable 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 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>
Dinosaur Set	DNI

DNI = Did not ignite

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

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Test Results:

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 test

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

Soluble metals test

*2 = The surface coating is less than 10mg, so it is not necessary to conduct the test according to the standard.

4.3.5.2 Toys Substrate Materials

Total lead analysis

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Comment</u>
<u>2+3+4</u>	<10ppm	100ppm	Pass
<u>5+6+7</u>	<10ppm	100ppm	Pass
<u>8+9+10</u>	<10ppm	100ppm	Pass
<u>11+12+13</u>	<10ppm	100ppm	Pass
<u>14+15+16</u>	<10ppm	100ppm	Pass
<u>17</u>	<10ppm	100ppm	Pass

Soluble metals test

	<u>2</u>	<u>4</u>	<u>10</u>	<u>14</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.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
Comment	Pass	Pass	Pass	Pass	----

Note: < denotes less than.

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Test Results:

2. ASTM Standard Consumer Safety Specification for Toy Safety F 963-23

AGE GRADING:

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

AGE GRADING FOR TESTING:

36 months and up.

2.1 Mechanical and physical hazards of the submitted sample

Ref.: ASTM F 963-23

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* ³
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.12	Plastic Film	Pass
5	<u>Labeling Requirements</u>	----
5.1	Federal Government Requirements	Pass
5.1.2	Tracking label	Pass
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.11	Small objects, Small Balls, Marbles and Balloons	Pass
5.15	Promotional Materials	Pass
7	<u>Producer's Markings</u>	----
7.1	Producer's Name and Address	Pass

*³ = Please refer to section 2.2 of this report for details.

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 or $\pm 180^\circ$
8.9	Tension Tests	15 lbs.
8.10	Compression Tests	30 lbs.

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Test Results:

2.2 Flammability test for solids and soft toys

Ref.: ASTM F963-23 Section 4.2

Method used: FHSA 16CFR 1500.44

Result: Pass

<u>Sample</u>	<u>Burn rate (in/sec.)</u>
Dinosaur Set	DNI

DNI = Did not ignite

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

2.3 Heavy metal test

Ref.: ASTM F963-23 Section 4.3.5

Method: ASTM F963-23 Section 8.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

4.3.5.1 Paint and similar surface-coating

Total lead test

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

Soluble metals test

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

4.3.5.2 Toys Substrate Materials

Total lead analysis

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Comment</u>
2+3+4	<10ppm	100ppm	Pass
5+6+7	<10ppm	100ppm	Pass
8+9+10	<10ppm	100ppm	Pass
11+12+13	<10ppm	100ppm	Pass
14+15+16	<10ppm	100ppm	Pass
17	<10ppm	100ppm	Pass

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Test Results:

Soluble metals test

	<u>2</u>	<u>4</u>	<u>10</u>	<u>14</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.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
Comment	Pass	Pass	Pass	Pass	----

Note: < denotes less than.

2.4 Phthalates content

Ref.: ASTM F963-23, Section 4.3.8 and 16 CFR 1307

Determined by: Gas Chromatography with Mass Selective Detector

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		1	2+3+4	5+6+7	
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)
		8+9+10	11+12+13	
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	----

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Test Results:

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		14+15+16	17	
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	121	<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-pentyl 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. US Consumer Product Safety Improvement Act

3.1 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>
1	<10ppm	90ppm

Note: < denotes less than.

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

Ref.: CPSIA Sec 101(a)

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
2+3+4	<10ppm	100ppm
5+6+7	<10ppm	100ppm
8+9+10	<10ppm	100ppm
11+12+13	<10ppm	100ppm
14+15+16	<10ppm	100ppm
17	<10ppm	100ppm

Note: < denotes less than.

3.3 Phthalates content

Ref.: CPSIA Sec 108 and 16 CFR 1307

Determined by: Gas Chromatography with Mass Selective Detector

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Test Results:

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		1	2+3+4	5+6+7	
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

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		8+9+10	11+12+13	
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

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		14+15+16	17	
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	121	<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

Note: < denotes less than.

4. The Total Lead Content

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma Optical Emission Spectrophotometer

Sample	Result	Limit
1	<10ppm	90ppm
2+3+4	<10ppm	100ppm
5+6+7	<10ppm	100ppm
8+9+10	<10ppm	100ppm
11+12+13	<10ppm	100ppm
14+15+16	<10ppm	100ppm
17	<10ppm	100ppm

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Test Results:

5. 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+3+4</u>	<u>5+6+7</u>	<u>8+9+10</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm
	<u>11+12+13</u>	<u>14+15+16</u>	<u>17</u>	
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	121ppm	<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	

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

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>1</u>	<10ppm	40ppm
<u>2+3+4</u>	<10ppm	40ppm
<u>5+6+7</u>	<10ppm	40ppm
<u>8+9+10</u>	<10ppm	40ppm
<u>11+12+13</u>	<10ppm	40ppm
<u>14+15+16</u>	<10ppm	40ppm
<u>17</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

Test Item	CAS No.	Result(ppm)			Limit(ppm)
		1	2+3+4	5+6+7	
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

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		8+9+10	11+12+13	
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

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		14+15+16	17	
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	121	<100	1000

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	2+3+4	5+6+7	
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

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		8+9+10	11+12+13	
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

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		14+15+16	17	
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

Note: < denotes less than.

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Test Results:

8. Phthalates content

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

Determined by: Gas Chromatography with Mass Selective Detector

Test Item	<u>1</u>	<u>2+3+4</u>	<u>5+6+7</u>	<u>8+9+10</u>
Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
Di (2-ethylhexyl) phthalate(DEHP)	<100ppm	<100ppm	<100ppm	<100ppm
Di-n-octyl phthalate(DNOP)	<100ppm	<100ppm	<100ppm	<100ppm
Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm
Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm

Test Item	<u>11+12+13</u>	<u>14+15+16</u>	<u>17</u>
Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm
Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm
Di (2-ethylhexyl) phthalate(DEHP)	<100ppm	121pm	<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
Di-iso-decyl 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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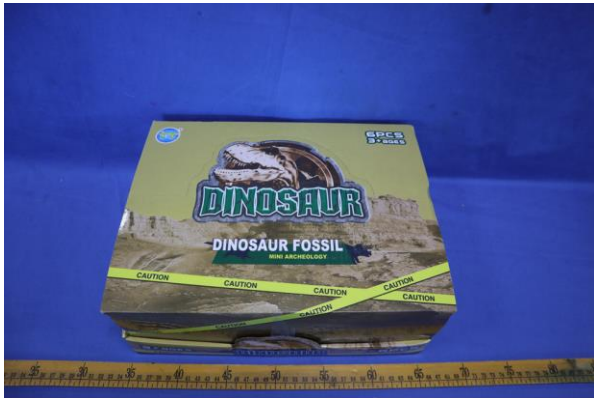
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The photo of submitted samples



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

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11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any

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