

62194-XXXX

**Test Report**

Number: GZHH00297417

Applicant: HEY CLAY LLC  
215 CREEL CHASE, KENNESAW,  
GA 30144, USA

Date: Sep 07, 2018

Attn: candy

## Sample Description:

One (1) set of submitted sample said to be :  
Item Name : **Super Light Air-Dry Clay**  
Labelled Age Group : Not Specified  
Applicant Specified Age : Over 3 years  
Grading for Testing :  
Packaging Provided by : No  
Applicant :  
Country of Destination : USA  
Country of Origin : China

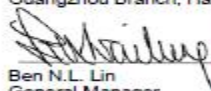


## Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued

Authorized by:  
For Intertek Testing Services Shenzhen Ltd.  
Guangzhou Branch, Hardlines

  
Ben N.L. Lin  
General Manager



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**Test Report**

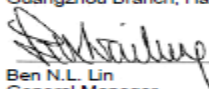
Number: GZHH00297417

**Conclusion:**

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample set	Standard - U.S. ASTM F963-17 Physical and mechanical tests excluding requirement of section 4.29, section 5 and 8	Pass
	Flammability test of materials other than textile materials	Pass
Tested component(s) of submitted sample set	Heavy elements test	Pass
*****		
<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample set	U.S. CFR Title 16 Part 1303 total Lead content	Not Applicable
	U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 for total Lead content in surface coating	Not Applicable
Tested component(s) of submitted sample set	U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 for Total Lead content in Non-surface coating materials (substrate)	Pass
	US Consumer Product Safety Improvement Act 2008 Title I, Sec 108(a) & (b)(3) and US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass
	Consent Judgment No. RG-358892 for total Lead content based on the California Proposition 65	Pass
	Consent Judgment No. BG-350969 on phthalate content based on the California Proposition 65	Pass
	Model Toxics in Packaging Legislation on toxic elements test (Toxics in Packaging Clearinghouse TPCHE)	See Comment

Comment: The testing scope of the following standard was not applicable to the submitted samples. However, the test results of the samples met the related requirements as stated in this report.

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## Tests Conducted

1 **Physical and Mechanical Tests**

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-17

The submitted samples were undergone the use and abuse tests in accordance with The Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations :

Test	Test	Parameter
Impact test	Section 1500.53(b)	4 X 3 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf
Compression test	Section 1500.53(g)	30 lbf

Section	Testing Items	Assessment
4.1	Material quality (visual check on cleanliness)	P
4.3.7	Stuffing materials	NA
4.5	Sound-producing toys	NA
4.6.1	Toys intended for children under 36 months (small objects)	NA
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months (small part warning)	NA
4.7	Accessible edges	P
4.8	Projections	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices ( such as helmets, hats and goggles)	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	#1
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA



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**Tests Conducted**

Section	Testing Items	Assessment
4.36	Hemispheric-shaped objects	NA
4.37	YoYo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw entrapment in handles and steering wheels	NA
4.40	Expanding materials	NA
4.41	Toy chests	NA
5	Labelling requirement	#1/#2
6	Instructional literature	#2
7	Producer's markings	
7.1	- Name of producer/distributor	No
	- Address	No
7.3	Toy chests	NA
7.3.1	Name and address of manufacturer/distributor/seller	NA
7.3.2	Code mark	NA

Remark: The submitted samples were undergone the tests in accordance with section 8.5 through section 8.18 and 8.20 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass      NA = Not Applicable

Remark: The final product or its packaging must be marked with the name and address of the producer or distributor as specified in section 7.1 of U.S. ASTM F963-17.

#1 = As requested by applicant, section 4.29 and 5.13 were not assessed.

#2 = No packaging was submitted for testing. Therefore, the warning and other labeling requirements specified in sections 5 and 6 were not assessed.

Date sample received: Aug 31, 2018  
Testing period: Aug 31, 2018 to Sep 03, 2018

**2 Flammability test**

As per section 4.2 of the ASTM standard consumer safety specification on toy safety F963-17, the samples were tested according to Annex A5 Flammability testing procedure for solids and soft toys

Result: Ignited but self-extinguished before burn rate could be determined

Date sample received: Aug 31, 2018  
Testing period: Aug 31, 2018 to Sep 03, 2018



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## Tests Conducted

3 Heavy Elements Analysis (except modelling clay)

As per Section 4.3.5 and Section 8.3.2 to 8.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, heavy elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm)	Reporting limit (ppm)	Limit (ppm)
	Tested component (2), (3)		
Sol. Barium (Ba)	ND	5	1000
Sol. Lead (Pb)	ND	5	90
Sol. Cadmium (Cd)	ND	5	75
Sol. Antimony (Sb)	ND	5	60
Sol. Selenium (Se)	ND	5	500
Sol. Chromium (Cr)	ND	5	60
Sol. Mercury (Hg)	ND	5	80
Sol. Arsenic (As)	ND	2.5	25

Sol. = Soluble  
ppm = part per million = mg/kg  
ND = Not detected

Tested Component(s) : See component list in the last section of this report.

Remark: As requested by the applicant, heavy elements content test was conducted only on component(s) listed in this report. Other components were not tested.

Date sample received: Aug 31, 2018  
Testing period: Aug 31, 2018 to Sep 05, 2018

4 Heavy Elements Analysis in Non-Surface Coating Materials (Modelling clay)

As per Section 4.3.5.2(2)(b) and Section 8.3.2 to 8.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, heavy elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm)	Reporting limit (ppm)	Limit (ppm)
	Tested Component (1)		
Sol. Barium (Ba)	6	5	250
Sol. Lead (Pb)	ND	5	90
Sol. Cadmium (Cd)	ND	5	50
Sol. Antimony (Sb)	ND	5	60
Sol. Selenium (Se)	ND	5	500
Sol. Chromium (Cr)	ND	5	25
Sol. Mercury (Hg)	ND	5	25
Sol. Arsenic (As)	ND	2.5	25



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**Tests Conducted**

ppm = parts per million = mg/kg  
 Sol. = Soluble  
 ND = Not detected

Tested Component(s) : See component list in the last section of this report.

Remark: As requested by the applicant, heavy elements content test was conducted only on component(s) listed in this report. Other components were not tested.

Date sample received: Aug 31, 2018  
 Testing period: Aug 31, 2018 to Sep 05, 2018

**5 Total Lead (Pb) Content**

As per Section 4.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, test method CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Non-surface coating

Element	Result (ppm)	Reporting Limit (ppm)	Limit (ppm)
	Tested Component (1), (2+3)		
Lead (Pb)	ND	10	100

ppm = part per million = mg/kg  
 ND = Not detected

Tested Component(s) : See component list in the last section of this report.

Remark: As requested by the applicant, U.S. ASTM F963-17 total Lead content test was conducted only on component(s) listed in this report. Other components were not tested.

Date sample received: Aug 31, 2018  
 Testing period: Aug 31, 2018 to Sep 05, 2018

**6 Total Lead (Pb) Content in Surface Coating**

As per Standard Operating Procedure for Determining Lead (Pb) in paint and other similar surface coatings, test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Assessment: Since no scrapable surface coating was found on the submitted sample(s), the testing scope was not applicable to the submitted sample(s).



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## Tests Conducted

**7 Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)**

As per Standard Operating Procedures for Determining total Lead (Pb) in children's products, test methods CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm)	Reporting Limit (ppm)	Limit (ppm)
	Tested Component (1), (2+3)		
Lead (Pb)	ND	10	100

ppm = parts per million = mg/kg  
ND = Not detected (less than reporting limit)

Tested Component(s) : See component list in the last section of this report.

Remark: As requested by the applicant, total Lead content test was conducted only on component(s) listed in this report. Other components were not tested.

Date sample received: Aug 31, 2018  
Testing period: Aug 31, 2018 to Sep 05, 2018

**8 Phthalate Content**

With reference to CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	CAS No.	Result (%)	Reporting limit (%)	Limit (%)
		Tested component (1), (2+3)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.01	0.1
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.01	0.1
Di-n-pentyl Phthalate (DPENP)	131-18-0	ND	0.01	0.1
Di-n-hexyl Phthalate (DHEXP)	84-75-3	ND	0.01	0.1
Dicyclohexyl Phthalate (DCHP)	84-61-7	ND	0.01	0.1

The above limit was quoted according to US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates.



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**Tests Conducted**

ND = Not detected (less than reporting limit)

Tested Component(s) : See component list in the last section of this report.

As requested by the applicant, phthalate test was conducted only on component(s) listed in this report. Other components were not tested.

Date sample received: Aug 31, 2018

Testing period: Aug 31, 2018 to Sep 04, 2018

**9 Total Lead Content**

With reference to CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001.08.3 and/or CPSC-CH-E1003-09.1 and followed by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component (1), (2+3)		
Lead (Pb)	ND	10	100

The above limit was quoted from the Consent Judgment No. RG- 358892 settled by superior court of the State of California for the county of Alameda, for toys based on the California Proposition 65.

ND = Not detected (less than reporting limit)

Tested Component(s) : See component list in the last section of this report.

Remark: As requested by the applicant, the testing was conducted on the component(s) listed in the test report. Other components were not tested

Date sample received: Aug 31, 2018

Testing period: Aug 31, 2018 to Sep 04, 2018



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## Tests Conducted

10 **Phthalate Content**

With reference to CPSC-CH-C1001-09.3 and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	CAS No.	Result (%)	Reporting limit (%)	Limit (%)
		Tested component (1), (2+3)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.01	0.1
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	0.1
Di-iso-decyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	0.01	0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	0.01	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.01	—

The above limit was quoted from the Consent Judgment No. BG-350969 settled by superior court of the state of California for the county of Alameda, for toys (designed for or reasonable used by children under six years of age) based on the California Proposition 65.

ND = Not detected (less than reporting limit)

Tested Component(s) : See component list in the last section of this report.

Date sample received: Aug 31, 2018

Testing period: Aug 31, 2018 to Sep 04, 2018

11 **Toxic Elements Analysis**

As per Model Toxics in Packaging Legislation requirement of packaging and packaging components, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

Element	Result (ppm)	Reporting limit (ppm)	Limit (ppm)
	Tested component (2), (3)		
Lead (Pb)	ND	5	—
Cadmium (Cd)	ND	5	—
Mercury (Hg)	ND	5	—
Chromium VI (Cr (VI))	ND	1	—
Sum of Pb, Cd, Hg and Cr (VI)	ND	—	100



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**Tests Conducted**

ppm = parts per million = mg/kg  
ND = Not detected (less than reporting limit)

Tested Component(s) : See component list in the last section of this report.

Date sample received: Aug 31, 2018

Testing period: Aug 31, 2018 to Sep 06, 2018

**Component list:**

- (1) Black clay (clay).
- (2) Semi-transparent plastic (lid of box).
- (3) Transparent plastic (body of box).

End of report

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