

Test Report

Report No.: CTT1912033078EN

Date: Dec. 21, 2019

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Applicant: HEADWIND CERAMIC LTD.

Address: 7F GOLD UNION COMM BLDG.,70-72 CONNAUGHT ROAD WEST,HONG KONG

Sample Received Date: Dec. 18, 2019

Completed Date: Dec. 21, 2019

The following merchandise was (were) submitted and identified on behalf of the applicant as:

Sample Name: Molkky Game w/Bag Natural

Sample Model: COUT020-NT

Supplier: Headwind Ceramic Ltd.

Sample Size: 3 sets

Packaging Provided: Yes

Labelled Age Group: Ages 6 and up

Tested Age Grading: Ages 6 and up

Appropriate Age Grading: Ages 6 and up

Applicant's Specified Testing Age Group: Ages 6 and up

Test Result(s): Please refer to next page(s).

Signed for and on Behalf of CTT



Frank / Lab manager

Consumer Testing Technology Co., Ltd.



Signed for and on Behalf of CTT



Shelly / Lab supervisor

Consumer Testing Technology Co., Ltd.

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Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Tested materials of submitted samples	US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)] - Total Lead (Pb) in accessible substrate materials	PASS (Please refer to "N" note of the next page)
2	Tested materials of submitted samples	US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)] - Total Lead (Pb) in paint or surface coating	PASS
3	Tested materials of submitted samples	California Proposition 65, Alameda Superior Court, Case No. BG07350969 - Total Lead (Pb)	PASS (Please refer to "N" note of the next page)
4	Tested materials of submitted samples	Canada Consumer Products Containing Lead Regulations, SOR/2018-83 - Lead	PASS (Please refer to "N" note of the next page)
5	Tested materials of submitted samples	ASTM F963-17 Section 4.3.5.2 - Total Lead content in substrate material	PASS (Please refer to "N" note of the next page)
6	Tested materials of submitted samples	ASTM F963-17 Section 4.3.5.1 - Total Lead content in paint and surface coating	PASS
7	Tested materials of submitted samples	CPSC 16CFR 1303 - Total Lead (Pb)	PASS
8	Tested materials of submitted samples	US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)] - 16 CFR 1307 - Phthalates	PASS
9	Tested materials of submitted samples	California AB1108 and California Proposition 65, Sacramento Superior Court, Case No. BG07350969 - Phthalates	PASS
10	Tested materials of submitted samples	Toxics in Packaging Clearinghouse (TPCH) – Pb/ Cd/ Hg/ Cr ⁶⁺ Content	PASS
11	Tested materials of submitted samples	ASTM F963-17 Section 4.3.5.2 - Soluble Heavy Metals content in substrate	PASS

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		material	
12	Tested materials of submitted samples	ASTM F963-17 Section 4.3.5.1 - Soluble Heavy Metals content in paint and surface coating	PASS
13	Tested materials of submitted samples	Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 - Heavy Metals requirements for surface coatings material	PASS
14	Submitted samples	ASTM F963-17 - Physical and Mechanical Properties	PASS
15	Submitted samples	ASTM F963-17 - Flammability	PASS
16	Submitted samples	Canada Consumer Product Safety Act, Toys Regulations SOR/2011-17 - Mechanical and Physical Properties and Flammability	PASS
17	Submitted samples	U.S. Federal Hazardous Substances Act (FHSA) CPSC 16 CFR 1500.3(c)(6)(vi)	PASS*

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Test Result(s):

The Lead content of accessible substrate materials – CPSIA

Method:

Metal – CPSC-CH-E1001-08.3

Nonmetal – CPSC-CH-E1002-08.3

Analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
2	100	N.D.	PASS
4 ^N	100	24	PASS

The Lead content of paint or surface coating - CPSIA

Method: CPSC-CH-E1003-09.1, analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	90	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.
 4. “N” = The test result is obtained from composite testing on materials linked with “N” mark, it is possible that individual test result can be higher if the materials are tested separately. This had not been taken in account in the conclusion of this report.

CP65, Alameda Superior Court, Case No. BG07350969 - Total Lead (Pb) in toys and child care articles

Material No.	Material Type	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	b	600	N.D.	PASS
2	b	600	N.D.	PASS
4 ^N	b	600	24	PASS

Material Type:

- a. PVC component material.
- b. Non-PVC component material.

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.
 4. Toys are defined as products designed to be used by children under 6 years of age when they

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play.

5. Child care articles are defined as products designed to facilitate sleep, relaxation, grooming, hygiene, or feeding of children under 3 years of age, or to help children under 3 years of age with sucking or teething.
6. "N" = The test result is obtained from composite testing on materials linked with "N" mark, it is possible that individual test result can be higher if the materials are tested separately. This had not been taken in account in the conclusion of this report.
7. The result(s) is(are) tested according to the method Metal – CPSC-CH-E1001-08.3, Nonmetal – CPSC-CH-E1002-08.3, Surface coating – CPSC-CH-E1003-09.1.

Lead - SOR/2018-83

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	90	N.D.	PASS
2	90	N.D.	PASS
4 ^N	90	24	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.
 4. "N" = The test result is obtained from composite testing on materials linked with "N" mark, it is possible that individual test result can be higher if the materials are tested separately. This had not been taken in account in the conclusion of this report.
 5. The result(s) is(are) tested according to the method Metal – CPSC-CH-E1001-08.3, Nonmetal – CPSC-CH-E1002-08.3, Surface coating – CPSC-CH-E1003-09.1.

Total Lead content in substrate material - ASTM F963-17 Section 4.3.5.2

Material No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
2	10	100	N.D.	PASS
4 ^N	10	100	24	PASS

Total Lead content in paint and surface coating - ASTM F963-17 Section 4.3.5.1

Material No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	10	90	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.

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4. "N" = The test result is obtained from composite testing on materials linked with "N" mark, it is possible that individual test result can be higher if the materials are tested separately. This had not been taken in account in the conclusion of this report.
5. The result(s) is(are) tested according to the method Metal – CPSC-CH-E1001-08.3, Nonmetal – CPSC-CH-E1002-08.3, Surface coating – CPSC-CH-E1003-09.1.

CPSC 16CFR 1303 - Total Lead (Pb)

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	90	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.
 4. The result(s) is(are) tested according to the method Metal – CPSC-CH-E1001-08.3, Nonmetal – CPSC-CH-E1002-08.3, Surface coating – CPSC-CH-E1003-09.1.

Phthalates – CPSIA (16 CFR 1307)

Method: CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substances	CAS No.	Limit (mg/kg)	RL (mg/kg)	Result (mg/kg)
				1
DBP	84-74-2	1000	50	N.D.
BBP	85-68-7	1000	50	N.D.
DEHP	117-81-7	1000	50	N.D.
DINP	28553-12-0/ 68515-48-0	1000	100	N.D.
DIBP	84-69-5	1000	50	N.D.
DCHP	84-61-7	1000	50	N.D.
DPENP	131-18-0	1000	50	N.D.
DHEXP	84-75-3	1000	50	N.D.
Conclusion				PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.
 4. Children's toys and child care articles shall not more than 1000mg/kg DBP, BBP, DEHP, DINP, DIBP, DCHP,DPENP and DHEXP
 - Children's toys defined as 12 years and under.

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- Child care articles to facilitate sleep or feeding of children 3 years and under, or to help children with sucking and teething.
- 5. Polypropylene (PP), polyethylene (PE), acrylonitrile butadiene styrene (ABS), general purpose polystyrene (GPPS), medium-impact polystyrene (MIPS), high-impact polystyrene (HIPS), and super high-impact polystyrene (SHIPS), and their additives as listed in 16 CFR 1308 are exempt from testing. If material identification is not provided, phthalate testing will be conducted on all plastic materials.

California AB1108 & CP65 - Phthalates in Children's products

Method: CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DINP	DNOP	DIDP	DnHP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	28553-12-0	117-84-0	26761-40-0	84-75-3	
Limit (mg/kg)	1000	1000	1000	1000	1000	1000	1000	
RL (mg/kg)	50	50	50	100	50	100	50	
Material No.	Result (mg/kg)							
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per liter.
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.
 4. Toys are defined as products designed to be used by children under 6 years of age when they play.
 5. Child care articles are defined as products designed to facilitate sleep, relaxation, grooming, hygiene, or feeding of children under 3 years of age, or to help children under 3 years of age with sucking or teething.

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Test Result(s):

TPCH

Method:

Lead (Pb)/Cadmium(Cd)/(Chromium(Cr)) - With reference to IEC 62321-5: 2013

Mercury(Hg) - With reference to IEC 62321-4: 2013/AMD1: 2017

Hexavalent Chromium(Cr⁶⁺) - With reference to IEC 62321-7-2: 2017

Analyzed by Atomic Absorption Spectroscopy (AAS), Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) and Ultraviolet-visible Spectroscopy (UV-Vis).

Test Item(s)	Pb	Cd	Hg	Cr ⁶⁺	SUM	Conclusion
Limit (mg/kg)	--	--	--	--	100	
Material No.	Result (mg/kg)					Conclusion
5	6	N.D.	N.D.	N.D.	6	
6	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 2 mg/kg (Pb/ Cd/ Hg/Cr⁶⁺).
 4. "--" = Not Regulated.
 5. The hexavalent chromium(Cr(VI)) content were reported as the total chromium(Cr) content, whenever the result of total Cr exceed 2mg/kg and the Cr(VI) confirm action test was performed.

Soluble Heavy Metals content in substrate material - ASTM F963-17 Section 4.3.5.2

Method: ASTM F963-17 Section 8.3.2, 8.3.3 and 8.3.5, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Elements	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Limit (mg/kg)	25	1000	75	60	60	90	60	500	
RL (mg/kg)	2.5	5	5	5	5	5	5	5	
Material No.	Result (mg/kg)								Conclusion
2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

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Soluble Heavy Metals content in paint and surface coating - ASTM F963-17 Section 4.3.5.1

Method: ASTM F963-17 Section 8.3.2 to Section 8.3.4, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Elements	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Limit (mg/kg)	25	1000	75	60	60	90	60	500	
RL (mg/kg)	2.5	5	5	5	5	5	5	5	
Material No.	Result (mg/kg)								PASS
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.

Heavy Metals - SOR/2011-17

Method: With reference to Canada Health Product Safety Laboratory Book 5 - Laboratory Policies and Procedures Part B: Test Method Section, Method C-02.2:2017 & C03:2018 & C07:2018, analyzed by and Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-OES).

Elements	As(S)	Ba(S)	Cd(S)	Hg(T)	Pb(T)	Sb(S)	Se(S)	Conclusion
Limit (mg/kg)	1000	1000	1000	10	90	1000	1000	
RL (mg/kg)	10	10	10	10	10	10	10	
Material No.	Result (mg/kg)							PASS
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.
 4. S = Soluble Heavy Metal.
 5. T = Total Heavy Metal.

Remark:

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Test Result(s):

Mechanical and Physical Properties - ASTM F963-17

Section	Testing Items	Assessment
		7
4	Safety requirements	PASS
4.1	Material quality	PASS
4.3.7	Stuffing materials	NA
4.4 ⁿ	Electrical/thermal energy	NA
4.5 ⁿ	Sound producing toys	NA
4.6	Small objects	NA
4.6.1	Toys intended for children under 36 months of age	NA
4.6.2 ⁿ	Mouth actuated toys	NA
4.7	Accessible edges	PASS
4.8	Projections	NA
4.9	Accessible points	PASS
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 and elastics in toys	NA
4.15 ⁿ	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	NA
4.20	Pacifiers	NA
4.21 ⁿ	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25 ⁿ	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

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4.29	Art materials	NA
4.30	Toy gun marking	NA
4.32	Certain toys with nearly spherical ends	NA
4.34	Balls	NA
4.34.1	Toy intended for children under 36 months of age	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37 ⁿ	Yo Yo 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	Labeling Requirement	PASS
5.4	Aquatic toys	NA
5.5	Crib and playpen toys	NA
5.6	Mobiles	NA
5.7	Stroller and carriage toys	NA
5.8	Toys intended to be assembled by an adult	NA
5.9	Simulated protective devices	NA
5.10	Toys with functional sharp edges or points	NA
5.11	Small objects, small balls, marbles, and balloons	NA
5.12	Toy caps	NA
5.13	Art materials	NA
5.14	Electric toys	NA
5.15	Battery operated toys	NA
5.16	Promotional materials	PASS
5.17	Magnets	NA
6	Instructional Literature	PASS
6.1	Definition and description	PASS
6.2	Crib and playpen toys	NA
6.3	Mobiles	NA
6.4	Toys intended to be assembled by an adult	NA
6.5	Battery operated toys	NA

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6.6	Battery powered ride-on toys	NA
6.7	Toys in contact with food	NA
6.8	Toy chests	NA
7	Producer's Marking	
7.1	Name of the producer or the distributor	YES
	Address of the producer or the distributor	YES
7.2	Battery powered ride on toys	NA
7.3	Toy chests	NA

- Note:**
1. NA = Not Applicable
 2. The name and address of the producer or the distributor shall be marked on the toy or the package.

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:

Testing Items	FHSA	Parameter
Drop Test	Section 1500.53(b)	4x3.0 ft
Torque Test	Section 1500.53(e)	4.0 inch ·lbf
Tension Test	Section 1500.53(f)	15 lbf

Flammability - ASTM F963-17 Annex A5

Sample Description	Ignition Location	Burn Length (inch)	Burn Time (sec.)	Burn Rate (inch/sec.)	Limit (inch/sec.)	Conclusion
Wooden block	Edge	--	--	IBE	0.15	PASS
Bag	Edge	--	--	IBE	0.15	PASS

- Note:**
1. IBE = Ignited but self-extinguished before burn-rate could be determined.
 2. All styles of the submitted toy samples (and its accessories) was/were tested, the above result only showed the most severe burn rate of the samples.

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Mechanical and Physical Properties and Flammability - SOR/2011-17

Section	Testing Items	Assessment
		7
3	General–Official languages	NA
4	Packaging–Flexible film bags	NA
7	Small parts	NA
8	Metal edges	PASS
9	Wire frames	PASS
10	Plastic edges	PASS
11	Wood	PASS
12	Glass	NA
13	Fasteners	NA
14	Safety stops or locking devices–Folding mechanisms	NA
15	Spring-wound driving mechanism	NA
16	Projectile component	NA
17	Enclosures	NA
18 ⁿ	Stability	NA
19 ⁿ	Auditory hazards–Decibel limit	NA
21	Flammability hazards–Celluloid or cellulose nitrate	PASS
28	Dolls, Plush toys or Soft toys–Fastening	NA
29	Dolls, Plush toys or Soft toys–Stuffing materials	NA
30	Dolls, Plush toys or Soft toys–Small parts	NA
31	Dolls, Plush toys or Soft toys–Eyes or nose	NA
32	Dolls, Plush toys or Soft toys–Flammability of outer covering	NA
33	Dolls, Plush toys or Soft toys–Flammability of yarn	NA
34	Dolls, Plush toys or Soft toys–Flammability of hair or mane	NA
35	Plant seeds–Noise	NA
36	Plant seeds–Stuffing Material	NA
37	Pull and push toys–Shaft-like handles	NA
38 ⁿ	Toy steam engines	NA
39 ⁿ	Finger paints	NA
40	Rattles	NA
41	Elastics	NA

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42	Yo-Yo type balls	NA
43 ⁿ	Batteries	NA

Note:

1. NA = Not Applicable.

The submitted samples were undergone the use and abuse tests in accordance with the Canada Consumer Product Safety Act, Toys Regulations SOR/2011-17:

Testing Items	Parameter
Drop test	4x0.914m
Pull test	44.5N
Push test	44.5N

Test Result(s):

Flammability Test - CPSC 16 CFR 1500.44

Material No.	Sample Description	Flammable Solid
7-1	Wooden block	NO *
7-2	Bag	NO *

Material No.	Ignition Point	Major Axis (Inch)	Burn Length (Inch)	Time (sec.)	Limit (Inch/sec.)	Burning Rate (Inch/sec.)
7-1	Edge	5.9	--	--	0.10	IBE
7-2	Edge	14.2	--	--	0.10	IBE

- Note:**
2. IBE = Ignited but self-extinguished before burn-rate could be determined.
 3. "*" = CPSC 16 CFR 1500.3(c)(6)(vi) Flammable solid means a solid substance that, when tested by the method described in 16 CFR 1500.44, ignites and burns with a self-sustained flame at a rate greater than one-tenth of an inch per second along its major axis.
 4. All styles of the submitted toy samples (and its accessories) were tested, the above result only showed the most severe burn rate of the samples.

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Test Material List

Material No.	Description	Location
1	Black paint	Paint
2	Brown wood	Building block
3	Black synthetic fiber with black paint	Bag body
4	Silvery metal +silvery metal	Substrate of slider +substrate of puller
5	Brown/white paper	Paper box
6	White paper with black printing	Specification
7	Toy suit	Toy suit

Photo of Sample:



End of Report

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