

# CPST

## Test Report

No. C211009052001-1

Date: Oct 13, 2021

Page 1 of 15

Applicant: Kasa Products USA

Applicant Address: 1338 Forrestal Drive, Fort Collins, Colorado 80526 USA

The following samples were submitted and identified on behalf of the clients as

Sample Name: felt busy board  
Description: 1 style felt busy board  
Model: NHA27  
Batch No. : 002  
Manufacturer: HEBEI NUOHUI TRADING CO., LTD  
Manufacturer Address: #31 Zhengdong Road, Chang'an District, Shijiazhuang, 050000, Hebei, China  
Requested Age Grading: 3+  
Labeled Age Grading: 3+  
Test age: 3+  
CPST Internal Reference No.: C211009052  
Sample Received Date: Oct 09, 2021  
Test Period: Oct 09, 2021 to Oct 13, 2021  
Test Method: Please refer to next pages.  
Test Result: Please refer to next pages.

Signed for and on behalf of  
Eurones (Dongguan) Consumer Products Testing Service Co., Ltd

WRITTEN BY :

Silvia Chan

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Report writer

REVIEWED BY:

Sunshine Liu

Liu Xiao Fang, Sunshine  
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APPROVED BY:

Will Pan

Pan Jian Ding, Will  
Technical Supervisor

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## Test Report

No. C211009052001-1

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### CONCLUSION :

<u>TESTED SAMPLES</u>	<u>TEST ITEM</u>	<u>RESULT</u>
felt busy board	1.ASTM F963-17 Standard Consumer Safety Specification for Toy Safety:	
	1)Physical & Mechanical Tests	<b>PASS</b>
	2)4.2 Flammability	<b>PASS</b>
	3)Heavy metal content in Toy Substrate Materials: ASTM F963-17	<b>PASS</b>
	Section 4.3.5.2	
	Heavy metal content in paint and similar surface coating material :	<b>N.A.</b>
	ASTM F963-17 Section 4.3.5.1	
	2.Lead in Non-Metal Children's Products (CPSC-CH-E1002-08.3:2012)	<b>PASS</b>
	- USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(a)	
	3.Lead in Children's Metal Products (CPSC-CH-E1001-08.3:2012)	<b>PASS</b>
	-USA Consumer Product Safety Improvement Act (CPSIA)Sec.101.(a)	
	4.Lead content for coating - USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(f)	<b>N.A.</b>
	5.Lead Paint Regulation - 16 CFR Part 1303 (CPSC-CH-E1003-09.1)	<b>N.A.</b>
	6.Determination of Phthalates (CPSC-CH-C1001:09.4)	<b>PASS</b>
- USA Consumer Product Safety Improvement Act (CPSIA) Sec.108		
7.As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products	<b>PASS</b>	

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### Photo of the Submitted Sample



△ WARNING:  
CHOKING HAZARD—Small parts.  
Not for children under 3 yrs.

Made in China



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### Test Result(s):

Description of Specimen	No.1	felt busy board
	No.2	Blue felt cloth
	No.3	Red webbing
	No.4	Yellow felt cloth
	No.5	Black plastic
	No.6	Green rope
	No.7	D-shaped silvery metal
	No.8	Coating

### 1.1)ASTM F963-17 Standard Consumer Safety Specification for Toy Safety: Physical & Mechanical Tests

Section	Test Item	Result
		No.1
4	Safety Requirements	---
4.1	Material Quality	PASS
4.2	Flammability	PASS
4.3	Toxicology	---
4.3.1	Hazardous Substances	N.A.
4.3.2	Manufacturing and Packaging of Food	N.A.
4.3.3	Indirect Food Additives	N.A.
4.3.4	Cosmetics	N.A.
4.3.5	Heavy Elements	PASS
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders and Items of Avian Feather Origin	N.A.
4.3.7	Stuffing Materials.	N.A.
4.3.8	DEHP (DOP)	N.A.
4.4	Electrical/Thermal Energy	N.A.
4.5	Sound-producing Toys	N.A.
4.6	Small Objects	---
4.6.1	Toys that are intended for children under 36 months of age	N.A.
4.6.2	Mouth-Actuated Toys	N.A.
4.6.3	Toys and games that are intended for use by children who are at least three years old but less than six years of age	PASS
4.7	Accessible Edges	PASS

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Section	Test Item	Result
		No.1
4.8	Projections	N.A.
4.9	Accessible Points	PASS
4.10	Wires or Rods	N.A.
4.11	Nails and Fasteners	PASS
4.12	Plastic Film	PASS
4.13	Folding Mechanisms and Hinges	N.A.
4.14	Cords, Straps, and Elastics	N.A.
4.15	Stability and Over-Load Requirements	N.A.
4.16	Confined Spaces	N.A.
4.17	Wheels, Tires and Axles	N.A.
4.18	Holes, Clearance and Accessibility of Mechanisms	PASS
4.19	Simulated Protective Devices	N.A.
4.20	Pacifiers	N.A.
4.21	Projectile Toys	N.A.
4.22	Teethers and Teething Toys	N.A.
4.23	Rattles	N.A.
4.24	Squeeze Toys	N.A.
4.25	Battery-Operated Toys	N.A.
4.26	Toys Intended to be Attached to a Crib or Playpen	N.A.
4.27	Stuffed and Beanbag-Type Toys	N.A.
4.28	Stroller and Carriage Toys	N.A.
4.29	Art Materials	N.A.
4.30	Toy Gun Marking	N.A.
4.31	Balloons	N.A.
4.32	Certain Toys with Nearly Spherical Ends	N.A.
4.33	Marbles	N.A.
4.34	Balls	N.A.
4.35	Pompoms	N.A.
4.36	Hemispheric-Shaped Objects	N.A.
4.37	Yo-Yo Elastic Tether Toys	N.A.

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Section	Test Item	Result
		No.1
4.38	Magnets	N.A.
4.39	Jaw Entrapment in Handles and Steering Wheels	N.A.
4.40	Expanding Materials	N.A.
4.41	Toy Chests	N.A.
5.	Labeling Requirements	---
5.1	Federal Government Requirements	PASS
5.2	Age Grading Labeling	PASS
5.3	Safety Labeling Requirements	PASS
5.4	Aquatic Toys	N.A.
5.5	Crib and Playpen Toys	N.A.
5.6	Mobiles	N.A.
5.7	Stroller and Carriage Toys	N.A.
5.8	Toys Intended to be Assembled by an Adult	N.A.
5.9	Simulated Protective Devices	N.A.
5.10	Toys with Functional Sharp Edges or Points	N.A.
5.11	Small Objects, Small Balls, Marbles and Balloons	PASS
5.12	Toy Caps	N.A.
5.13	Art Materials	N.A.
5.14	Electric Toys	N.A.
5.15	Battery-Operated Toys	N.A.
5.16	Promotional Materials	N.A.
5.17	Magnets	N.A.
6.	Instructional Literature	---
6.1	Definition and Description	PASS
6.2	Crib and Playpen Toys	N.A.
6.3	Mobiles	N.A.
6.4	Toys Intended to be Assembled by an Adult	N.A.
6.5	Battery-Operated Toys	N.A.
6.6	Battery Powered Ride-on Toys	N.A.
6.7	Toys in Contact with Food	N.A.

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Section	Test Item	Result
		No.1
6.8	Toy Chests	N.A.
7.	Producer's Markings	---
7.1	Producer's Markings	PASS
7.2	Battery-Powered Ride-on Toys	N.A.
7.3	Toy Chests	N.A.
8.	Test Method	---
8.5	Normal Use Testing	PASS
8.5.1	Washable Toys	N.A.
8.7	Impact Test	PASS
8.8	Torque Test	PASS
8.9	Tension Test	PASS
8.9.1	Seam Test	N.A.
8.10	Compression Test	PASS
8.12	Flexure Test	N.A.
8.16	Tension Test for Pompoms	N.A.

N.A. = Not Applicable

The sample was resubmitted by client dated on Oct 12, 2021.

### 1.2)4.2 Flammability

Ref: ASTM F 963-17 Section 4.2/A5

#### Flammability Test on Solid

Sample	Burning Rate (inch/sec)	Limit (inch/sec)
No.1	0.03	0.1
DNI = Did Not Ignite	IBE = Ignite But Self-Extinguished	

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### 1.3) Heavy metal content in Toy Substrate Materials: ASTM F963-17 Section 4.3.5.2

Test Method: With reference to ASTM F963-17, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Items	Unit	Result						MDL	Limit
		No.2	No.3	No.4	No.5	No.6	No.7		
Soluble Lead (Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	90
Soluble Mercury (Hg)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Cadmium (Cd)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	75
Soluble Chromium (Cr)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Antimony (Sb)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Arsenic (As)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	25
Soluble Barium (Ba)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	1000
Soluble Selenium (Se)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	500
Total Lead(Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10	100

Note:

1. mg/kg = milligram per kilogram = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

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### **Heavy metal content in paint and similar surface coating material : ASTM F963-17 Section 4.3.5.1**

Test Method: With reference to ASTM F963-17, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Items	Unit	Result	MDL	Limit
		No.8		
Soluble Lead (Pb)	mg/kg	N.A.	5	90
Soluble Mercury (Hg)	mg/kg	N.A.	5	60
Soluble Cadmium (Cd)	mg/kg	N.A.	5	75
Soluble Chromium (Cr)	mg/kg	N.A.	5	60
Soluble Antimony (Sb)	mg/kg	N.A.	5	60
Soluble Arsenic (As)	mg/kg	N.A.	5	25
Soluble Barium (Ba)	mg/kg	N.A.	5	1000
Soluble Selenium (Se)	mg/kg	N.A.	5	500
Total Lead(Pb)	mg/kg	N.A.	10	90

Note:

1. mg/kg = milligram per kilogram = ppm
2. N.A. = Not Applicable
3. MDL = Method Detection Limit

### **2. Lead in Nonmetal Children's Products (CPSC-CH-E1002-08.3:2012)**

#### **- USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(a)**

Test Method: With reference to CPSC-CH-E1002-08.3:2012, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result					MDL	Limit
		No.2	No.3	No.4	No.5	No.6		
Lead (Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	10	100

Note:

1. mg/kg = milligram per kilogram= ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

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### **3. Lead in Children's Metal Products (CPSC-CH-E1001-08.3:2012)**

#### **- USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(a)**

Test Method: With reference to CPSC-CH-E1001-08.3:2012, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result	MDL	Limit
		No.7		
Lead (Pb)	mg/kg	N.D.	10	100

Note:

1. mg/kg = milligram per kilogram = ppm
2. MDL = Method Detection Limit
3. N.D. = Not Detected (< MDL)

### **4. Lead content for coating-USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(f)**

Test Method: With reference to CPSC-CH-E1003-09.1:2011, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result	MDL	Limit
		No.8		
Lead (Pb)	mg/kg	N.A.	10	90

Note:

1. mg/kg = milligram per kilogram = ppm
2. N.A. = Not Applicable
3. MDL = Method Detection Limit

### **5. Lead Paint Regulation - 16 CFR Part 1303 (CPSC-CH-E1003-09.1)**

Test Method: With reference to CPSC-CH-E1003-09.1:2011, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result	MDL	Limit
		No.8		
Lead (Pb)	mg/kg	N.A.	10	90

Note:

1. mg/kg = milligram per kilogram = ppm
2. N.A. = Not Applicable
3. MDL = Method Detection Limit

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### 6.Determination of Phthalates (CPSC-CH-C1001:09.4)

#### - USA Consumer Product Safety Improvement Act (CPSIA) Sec.108

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	CAS No.	Unit	Result	MDL	Limit
			No.2+No.3+No.4		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%(w/w)	N.D.	0.005	0.1
Di-butyl phthalate (DBP)	84-74-2	%(w/w)	N.D.	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%(w/w)	N.D.	0.005	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%(w/w)	N.D.	0.010	0.1
Di-n-pentyl phthalate(DPENP)	131-18-0	%(w/w)	N.D.	0.005	0.1
Di-n-hexyl phthalate(DHEXP)	84-75-3	%(w/w)	N.D.	0.005	0.1
Di-isobutyl phthalate(DIBP)	84-69-5	%(w/w)	N.D.	0.005	0.1
Dicyclohexyl phthalate(DCHP)	84-61-7	%(w/w)	N.D.	0.005	0.1

Test Item	CAS No.	Unit	Result	MDL	Limit
			No.5+No.6		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%(w/w)	N.D.	0.005	0.1
Di-butyl phthalate (DBP)	84-74-2	%(w/w)	N.D.	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%(w/w)	N.D.	0.005	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%(w/w)	N.D.	0.010	0.1
Di-n-pentyl phthalate(DPENP)	131-18-0	%(w/w)	N.D.	0.005	0.1
Di-n-hexyl phthalate(DHEXP)	84-75-3	%(w/w)	N.D.	0.005	0.1
Di-isobutyl phthalate(DIBP)	84-69-5	%(w/w)	N.D.	0.005	0.1
Dicyclohexyl phthalate(DCHP)	84-61-7	%(w/w)	N.D.	0.005	0.1

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**Note:**

1. % = percentage by weight.
2. 0.0001% = 1 mg/kg.
3. MDL = Method Detection Limit.
4. N.D. = Not Detected (< MDL).
5. Children's toys and child care articles that contains concentrations of not more than 0.1% of Di-(2-ethylhexyl) phthalate (DEHP), Di-butyl phthalate (DBP), or Butyl benzyl phthalate (BBP), Di-isononyl phthalate (DINP), Di-n-pentyl phthalate(DPENP), Di-n-hexyl phthalate(DHEXP), Di-isobutyl phthalate(DIBP), Dicyclohexyl phthalate(DCHP).

**7.As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products**

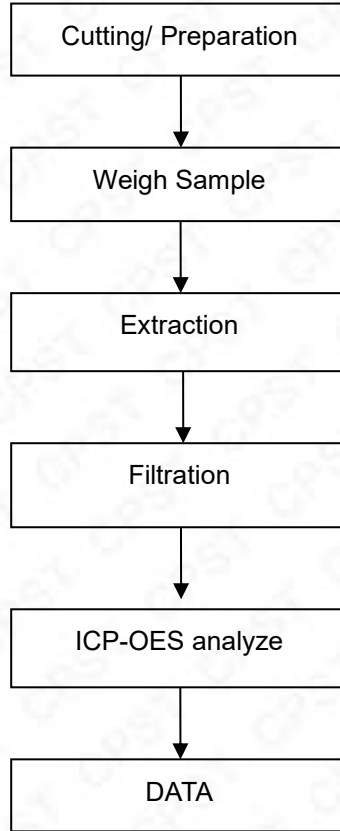
CPSIA Section 103	Tracking label found on the packaging:	Note
	1. Name:	Present
	2. Location:	Present
	3. Date:	Present
	4. Cohort information:	Present
	Tracking label found on the product:	Not applicable

**Note:** The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample.

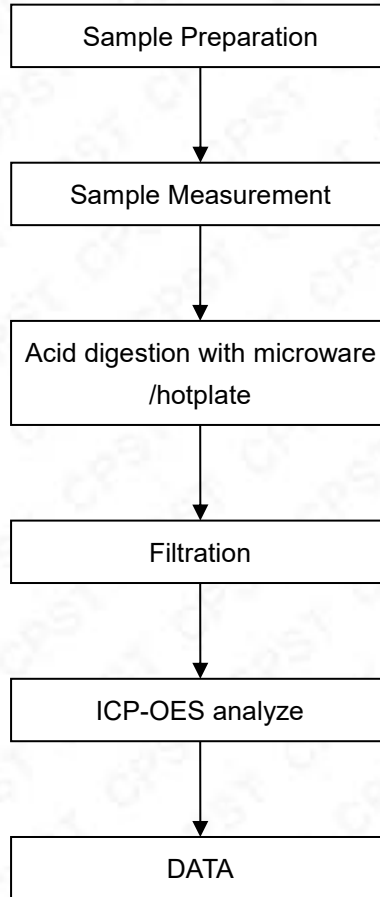
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### Soluble Migrated Element Testing Flow Chart



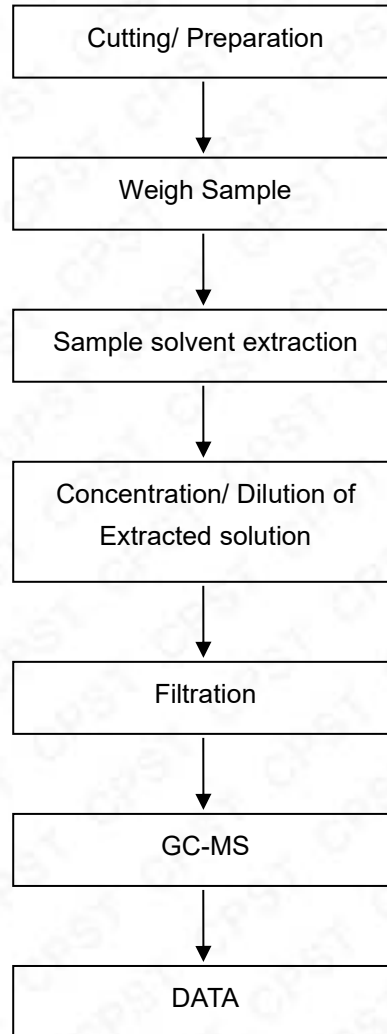
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### Total Lead Testing Flow Chart



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### Phthalates Testing Flow Chart



\*\*\* End of Report \*\*\*

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