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Client: **HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD**

Contact Information: **HAPE INTERNATIONAL(NINGBO)LTD**  
9-27Nanhai Road, Dagang industrial City, Beilun, Ningbo, China

Test item(s): **Toy**

Identification/ Refer to detail list

Model No(s):

Sample obtaining method: **Sending by customer**

Condition at delivery: **Test item complete and undamaged.**

Sample Receiving date: **2021-11-24 & 2022-08-04 & 2022-10-12**

Testing Period: **2021-11-24 to 2022-10-12**

Place of testing: **Chemical laboratory Shanghai, Toys laboratory Shanghai**

Test Specification:	Test result:
1. ASTM F963-17: Mechanical and physical	PASS
2. ASTM F963-17: Flammability on solids and soft toys	PASS
3. CPSIA Sect 103: Tracking label	PASS
4. ASTM F963-17 Sect. 4.3.5.1 and 4.3.5.2 : Soluble heavy metal	PASS
5. ASTM F963-17 Sect. 4.3.5.1 and CPSIA Sect. 101: Total lead content in paint and coating materials	PASS
6. ASTM F963-17 Sect. 4.3.5.2 and CPSIA Sect. 101: Total lead content in substrate materials	PASS
7. Total Lead Content*	PASS

**Other information:**

Country of Origin: China

Packaging provided: Yes

The provided age grade of the item: Refer to detail list.

The appropriate age grade of the item: M001,M005-M007 Over 10 months; M002-M004,M008 For all ages.

The items were tested: M001,M005-M007 Over 10 months; M002-M004,M008 For all ages.

\*As per client's requirement

For and on behalf of  
TÜV Rheinland (Shanghai) Co., Ltd.



2022-10-12

Date

Neo Yang / Assistant Manager

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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Item No.	Item Description	CN Item Description	Age group
E8505,E8505A,E8505B	Pull Along Dog	拖拉狗乌戈	12m+
E8506,E8506A,E8506B	Rattle	旋转摇铃	3m+
E8508,E8508A,E8508B	Teether Hedgehog	刺猬牙胶	0m+
E8509,E8509A,E8509B	Music Box	蜜蜂音乐盒	0m+
E8510,E8510A,E8510B	Flappy Bird	推推鸟艾丽	12m+
E8517,E8517A,E8517B	Busy Buddies	大自然乐队	10m+
E8519,E8519A,E8519B	Hook N' Look Snail	蜗牛镜子摇铃	10m+
E8521,E8521A,E8521B	Butterfly Links	百变蝴蝶挂环	6m+



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**Material List:**

Item: Refer to detail list

Material No.	Material	Color	Location
M001	Whole Product	Multicolor	Pull Along Dog
M002	Whole Product	Multicolor	Rattle
M003	Whole Product	Multicolor	Teether Hedgehog
M004	Whole Product	Multicolor	Music Box
M005	Whole Product	Multicolor	Flappy Bird
M006	Whole Product	Multicolor	Busy Buddies
M007	Whole Product	Multicolor	Hook N' Look Snail
M008	Whole Product	Multicolor	Butterfly Links
M009	Wood	Nature	Solid wood
M010	Wood	Nature	Plywood
M011	Coating	Transparent	On wood
M012	Coating	Black	On wood
M013	Coating	Red brown	HAPE LOGO
M014	Plastic	Black	Loop of wheel
M015	Plastic	Beige	Rim of wheel
M016	Textile	Cream/Brown/Black	Main fabric, body
M017	Textile	Rose/White	Fabric of ears
M018	Textile	Blue/White	Fabric of tail/ears
M019	Plastic + Textile	White	Velcro
M020	Textile	Cream	Cord
M021	Metal	Silver	Axle
M022	Textile + printing	White/Black	Sewn in label
M023	Textile	White	Filling cotton
M024	Plastic	Lt.blue	Handle
M025	Plastic	Blue	Connector
M026	Plastic	White	In the ball
M027	Metal	Silver	Screw
M028	Plastic	Mint	Silicone hedgehog
M029	Textile	Yellow/Black/Grey	Main fabric, Bee body

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M030	Textile	Beige	Main fabric of star
M031	Textile	Yellow	Cord/antenna
M032	Textile	Yellow	Tape
M033	Textile	White	Cord
M034	Plastic	Transparent	Film inside star
M035	Plastic	White	Music box
M036	Coating	Yellow	On wood
M037	Textile	Cream/Grey/Black/Orange	Main fabric, body
M038	Textile	Lemon	Tape
M039	Plastic	Yellow	Connector of bar
M040	Plastic	Orange	Feet(soft)
M041	Plastic	Orange	Rim of wheel
M042	Plastic	Semi-transparent	Tube of wheel
M043	Coating	Yellow	On wood
M044	Coating	Blue + lt.blue	On wood
M045	Coating	Dk.blue	On wood
M046	Coating	Lake blue	On wood
M047	Coating	Grey+Red+White	On wood
M048	Coating	Grey+Pink	On plastic
M049	Plastic	Reflective	Mirror
M050	Plastic	Yellow	Connetor
M051	Plastic	Transparent	Ball
M052	Plastic	Multicolor	Ball inner
M053	Plastic	White	Blocks
M054	Textile	Grey + white	Fabric
M055	Textile	Blue + lt.blue	Fabric
M056	Textile	Orange	Fabric
M057	Textile	Orange + lt.orange	Fabric
M058	Textile	White	Cord
M059	Textile	Green	Ribbon
M060	Textile	Pink	Ribbon
M061	Textile	Yellow	Ribbon



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M062	Textile	Blue	Piping
M063	Plastic + Textile	White	Elastic string
M064	Textile	White	String
M065	Plastic	Yellow	Ring
M066	Plastic	Pink	Ring
M067	Plastic	Blue	Ring



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**1.ASTM F963-17: Mechanical and physical**
**Test result:**

Test No:	T001
Material No:	M001-M008
<b>4. Safety requirements</b>	
4.1 Material Quality (visual check)	PASS
4.3.7 Stuffing materials	PASS*1
4.5 Sound-producing toys	PASS*2
4.6 Small objects	PASS
4.7 Accessible edges	PASS
4.8 Projections	N/A
4.9 Accessible points	PASS
4.10 Wires or rods	N/A
4.11 Nails and fasteners	PASS*7
4.12 Plastic film	N/A
4.13 Folding mechanisms and hinges	N/A
4.14 Cords, straps, and elastics	PASS*3
4.15 Stability and over-load requirements	N/A
4.16 Confined spaces	N/A
4.17 Wheels, tires and axles	PASS*4
4.18 Holes, clearance and accessibility of mechanisms	PASS*5
4.19 Simulated protective devices	N/A
4.20 Pacifiers	N/A
4.21 Projectile toys	N/A
4.22 Teethers and teething toys	PASS*9
4.23 Rattles	PASS*6
4.24 Squeeze toys	N/A
4.26 Toys intended to be attached to a crib or playpen	PASS*8
4.27 Stuffed and beanbag-type toys	PASS*1
4.28 Stroller and carriage toys	N/A
4.29 Art materials (#)	N/A
4.30 Toys 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
4.38 Magnets	N/A
4.39 Jaw entrapment in handle and steering wheels	N/A
4.40 Expanding materials	N/A
4.41 Toy chests	N/A
<b>5. Labeling requirements</b>	
5.1 Federal government requirements	N/A
5.2 Age grading labeling	N/A



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Test No:	T001
Material No:	M001-M008
5.3 Safety labeling requirements	N/A
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	N/A
5.12 Toy caps	N/A
5.13 Art materials	N/A
5.16 Promotional materials	PASS
5.17 Magnets	N/A
<b>6. Instructional literature</b>	
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
6.7 Toys in contact with food	N/A
6.8 Toy chests	N/A
<b>7. Producer's markings</b>	
7.1 Name and address of the producer or the distributor	PASS
7.3 Toy chests	N/A

**Use and Abuse Tests:**

The submitted samples were undergone the use and abuse tests in accordance with FHSA 16 CFR and whichever is applicable the tested age grade.

Age Category	Impact Test	Flexure Test	Torque Test	Tension Test	Compression Test
0-18 Months 16 CFR 1500.51	10 x 4.5 ft	120 Arc 30 Cycles 10 lbs	2 in-lbs	10 lbs	20 lbs
19-36 Months 16 CFR 1500.52	4 x 3 ft	120 Arc 30 Cycles 15 lbs	3 in-lbs	15 lbs	25 lbs
37-96 Months 16 CFR 1500.53	4 x 3 ft	120 Arc 30 Cycles 15 lbs	4 in-lbs	15 lbs	30 lbs

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.



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**Remark:**

- \*1 This clause is only applicable to M001,4,5,6,7,8
- \*2 This clause is only applicable to M002,4,5,7,8
- \*3 This clause is only applicable to M001,4,5,7,8
- \*4 This clause is only applicable to M001,5
- \*5 This clause is only applicable to M004
- \*6 This clause is only applicable to M002,8
- \*7 This clause is only applicable to M002,5,6
- \*8 This clause is only applicable to M004,6,7,8
- \*9 This clause is only applicable to M003,8



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**2.ASTM F963-17: Flammability on solids and soft toys****Test result:**

Test No:	T001
Material No:	M001-M008
<b>4.2 Flammability on solids and soft toys</b>	<b>PASS</b>

The burning rate of the most severe part = 0.02 Inch/sec.

Note: Maximum permissible burning rate = 0.1 Inch/sec.

**Abbreviation:** DNI = Did Not Ignite / IBE = Ignite But Self-extinguish

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**3.CPSIA Sect 103: Tracking label****Test Result:**

Test No:	T001
Material No:	M001-M008
Present On Packaging	PASS
Present On Product	PASS

**Remark:**

- \* If there is a tracking label on the product which is visible through disposable packaging, the packaging need not be marked.
- \*\* The correct adherence to all requirements according to CPSIA Tracking label in regards to the marking of:
- (1) Manufacturer or private labeler name;
  - (2) Location and date of production of the product;
  - (3) Detailed information on the manufacturing process, such as a batch or run number, or other identifying characteristics; and,
  - (4) Any other information to facilitate ascertaining the specific source of the product;
- can only be confirmed by the manufacturer/trader/applicant. The presence of related information was assessed; however, they cannot be verified in the frame of this test.



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**4.ASTM F963-17 Sect. 4.3.5.1 and 4.3.5.2 : Soluble heavy metal**

Test method: For paint and similar surface-coating materials: ASTM F963-17 Section 8.3.2 - 8.3.4  
Method to Dissolve Soluble Matter for Surface Coatings, Preparation of Test Samples and Test Procedures

For substrate: ASTM F963-17 Section 8.3.5 Soluble Element Test Method for Substrate Materials

This requirement applies to the coating and substrate materials which the sample weight is greater than 10 mg

Test result:

Test No.	Material No.	[mg/kg]							
		Sb	As	Ba	Cd	Cr	Pb	Hg	Se
		Maximum Permissible Limit of Any Toy Materials except Modelling Clay							
		60	25	1000	75	60	90	60	500
		Maximum Permissible Limit of Modelling Clay							
		60	25	250	50	25	90	25	500
		RL							
		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
T001	M009(*3)	< RL	< RL	4.7	< RL	< RL	< RL	< RL	< RL
T002	M010	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T003	M011(*3)	< RL	< RL	3.4	< RL	< RL	< RL	< RL	< RL
T004	M012(*3)	< RL	< RL	3.7	< RL	< RL	< RL	< RL	< RL
T005	M014	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T006	M015	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T007	M016	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T008	M017	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T009	M018	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T010	M019	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T011	M020	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T012	M022	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T013	M024	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T014	M025	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T015	M026	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T016	M028	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T017	M029	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T018	M030	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T019	M031	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T020	M032	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T021	M033	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T022	M036(*3)	< RL	< RL	3.3	< RL	< RL	< RL	< RL	< RL
T023	M037	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T024	M038	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T025	M039	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T026	M040	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T027	M041	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL

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Test No.	Material No.	[mg/kg]							
		Sb	As	Ba	Cd	Cr	Pb	Hg	Se
		Maximum Permissible Limit of Any Toy Materials except Modelling Clay							
		60	25	1000	75	60	90	60	500
		Maximum Permissible Limit of Modelling Clay							
		60	25	250	50	25	90	25	500
		RL							
		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
T028	M042(*3)	< RL	< RL	4.6	< RL	< RL	< RL	< RL	< RL
T029	M043(*3)	< RL	< RL	3.3	< RL	< RL	< RL	< RL	< RL
T030	M044(*2)	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T031	M045(*3)	< RL	< RL	4.1	< RL	< RL	< RL	< RL	< RL
T032	M046(*3)	< RL	< RL	17.1	< RL	< RL	< RL	< RL	< RL
T033	M047(*2)	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T034	M048(*2)	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T035	M049	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T036	M050	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T037	M051	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T038	M053	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T039	M054	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T040	M055(*3)	3.6	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T041	M056	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T042	M057(*3)	2.9	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T043	M058	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T044	M059	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T045	M060	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T046	M061	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T047	M062	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T048	M063	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T049	M064	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T050	M065	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T051	M066	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T052	M067	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL

Abbreviation: < = less than  
 RL = Reporting Limit  
 mg/kg = milligram per kilogram



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## Remark:

- \*1 The weight of test portion available M013 was less than 10 mg, the test for soluble heavy metal content was not performed.
- \*2 The weight of test portion available was less than 100 mg, but greater than 10 mg, so results were calculated as if 100 mg of the sample were available.
- \*3 The material is deemed comply with the requirement of ASTM F963-17 cl. 8.3.4.3 after analytical correction.
- \* Migration results of eight elements shown are the adjusted analytical results

Element	<b>Sb</b>	<b>As</b>	<b>Ba</b>	<b>Cd</b>	<b>Cr</b>	<b>Pb</b>	<b>Hg</b>	<b>Se</b>
Analytical Correction (in %)	60	60	30	30	30	30	50	60



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**5.ASTM F963-17 Sect. 4.3.5.1 and CPSIA Sect. 101: Total lead content in paint and coating materials**

Test method: CPSC-CH-E1003-09.1 (Microwave method)

Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M011 + M012 + M013	Lead Content	ppm	10	90	< RL
T002	M036 + M043	Lead Content	ppm	10	90	< RL
T003	M044 + M045 + M046	Lead Content	ppm	10	90	< RL
T004	M047 + M048	Lead Content	ppm	10	90	< RL

Abbreviation: < = less than  
RL = Reporting Limit  
ppm = parts per million



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**6.ASTM F963-17 Sect. 4.3.5.2 and CPSIA Sect. 101: Total lead content in substrate materials**

Test method: CPSC-CH-E1001-08.3 and CPSC-CH-E1002-08.3 (Microwave method)

Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M009 + M010	Lead Content	ppm	10	100	< RL
T002	M014	Lead Content	ppm	10	100	< RL
T003	M015 + M024 + M025	Lead Content	ppm	10	100	< RL
T004	M019	Lead Content	ppm	10	100	< RL
T005	M022	Lead Content	ppm	10	100	< RL
T006	M026 + M035 + M053	Lead Content	ppm	10	100	< RL
T007	M028	Lead Content	ppm	10	100	< RL
T008	M034	Lead Content	ppm	10	100	< RL
T009	M039 + M041 + M042	Lead Content	ppm	10	100	< RL
T010	M040	Lead Content	ppm	10	100	< RL
T011	M049 + M050 + M051	Lead Content	ppm	10	100	< RL
T012	M052	Lead Content	ppm	10	100	< RL
T013	M063	Lead Content	ppm	10	100	< RL
T014	M065 + M066 + M067	Lead Content	ppm	10	100	< RL

Abbreviation: < = less than  
 RL = Reporting Limit  
 ppm = parts per million



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**7.Total Lead Content**

Test Method: CPSC-CH-E1003-09.1 (Microwave method)

**Result:**

Test No.	Material No.	Test Parameter	Unit	RL	Customer's Requirement	Result
T001	M011 + M012 + M013	Lead Content	mg/kg	10	40	< RL
T002	M036 + M043	Lead Content	mg/kg	10	40	< RL
T003	M044 + M045 + M046	Lead Content	mg/kg	10	40	< RL
T004	M047 + M048	Lead Content	mg/kg	10	40	< RL

**Abbreviation:** < = less than  
RL = Reporting Limit  
mg/kg = milligram per kilogram

**Remark:**

- \*1 The requirement is following 16 CFR Part 1303 for
- (1) Paint and other similar surface-coating materials
  - (2) Lead-containing paint
  - (3) Toys and other articles intended for use by children and
  - (4) Furniture article.



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Sample Photos



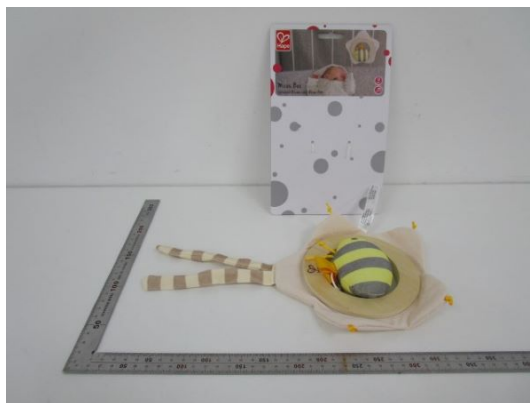
E8505,E8505A,E8505B



E8506,E8506A,E8506B



E8508,E8508A,E8508B



E8509,E8509A,E8509B



E8510,E8510A,E8510B



E8517,E8517A,E8517B



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Sample Photos



E8519,E8519A,E8519B



E8521,E8521A,E8521B

- END -



