



中国认可  
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检测  
TESTING  
CNAS L4783

# Test Report

Report No.: NAP2409073011E

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Applicant: Guangdong Huating Intelligent Technology Co., Ltd

Address: 4th Floor, No. 9 Shatian Middle Road, Lide Village Industrial Zone, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China

The following test sample information is provided and confirmed by the applicant:

Sample Name: Bubble Series  
 Item No.: HT8011,HT8012,HT8032,HT8051,HT8052,HT8053,HT8063,HT8064,HT8065,HT8084,HT8105,HT8106,HT8111,HT8112,HT8113,HT8114,HT8115,HT8116,HT8117,HT8118,HT8119,HT8201,HT8202,HT8203,HT8204,HT8205,HT8206,HT8207,HT8208,HT8209,HT8210,HT8211,HT8212,HT8213,HT8214,HT8215,HT8216,HT8217,HT8301,HT8302,HT8303,HT8304,HT8401,HT8402,HT8403,HT2010,HT2011,HT2012,HT2013,HT2014,HT2015,HT2016,HT2017,HT2018,HT2019,HT2020,HT2021,HT2022,HT2023,HT2024,HT2025,HT2026,HT2027,HT2028,HT2029,HT2055,HT5057,HT2120,HT2121,HT2122,HT2123,HT2124,HT2125,HT2126,HT2127,HT2128,HT2129,HT2130,HT2131,HT2201,BV381,BV382,BV388,BV383,BV365,BV236,418861

Packaging Provided: Yes  
 Labeled Age Grading: 3+  
 Requested Age Grading: 3+  
 Age Group Applied in Testing: 3+

Date of sample(s) received: Sep.25,2024  
 Date of Test Period: Sep.25,2024 ~ Dec.11,2024  
 Date of Report: Dec.11,2024

TEST REQUIREMENT	CONCLUSION
1. As specified by client, to determine the EN71-1:2014+A1:2018 Mechanical & Physical Properties in the submitted samples.	PASS
2. As specified by client, to determine the EN71-2:2020 Flammability in submitted samples.	PASS
2.1.As specified by client, to determine the EN71-2:2020 ,section 4.1 the liquids/gels flammability requirements in submitted samples.	PASS
3. As specified by client, to determine the EN71-3:2019+A1:2021 Migration of certain elements in submitted samples.	PASS

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*Lian Yi*  
 Lian Yi  
 Authorized Signatory




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## Test Result(s):

### 1. Mechanical & Physical Properties

**TESTS OF THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING STANDARDS: EN 71-1:2014+A1:2018**

The following clauses are identified to be applicable:

Age grading for testing: Age 3+

Clause	Test Items	Assessment
		All
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toys kites and other flying toys	NA
4.14	Enclosures	NA
4.14.1	Toys which a child can enter	NA
4.14.2	Masks and helmets	NA
4.15	Toys intended to bear the mass of a child	NA
4.15.1	Toys propelled by a child or by other means	NA
4.15.2	Toy bicycles	NA
4.15.3	Rocking horses and similar toys	NA
4.15.4	Toys not propelled by a child	NA
4.15.5	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles toys	NA
4.17.1	General	NA
4.17.2	All projectiles	NA
4.17.3	Projectile toys with stored energy	NA



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4.17.4	Certain projectile toys without stored energy	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toy using percussion caps	NA
4.20	Acoustics	P
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.23.1	General	NA
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	NA
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	General Requirements – Toys intended for children under 36 months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.4.1	General	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA
5.4.3	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5	Liquid-filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibers	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA



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5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	P
7	Warnings, markings and instructions for use	P

Remark:

- P = Pass; NA = Not Applicable; F=Fail

## 2. Flammability

TESTS OF THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING STANDARDS:EN 71-2:2020

The following clauses are identified to be applicable:

Age grading for testing: Age 3+

Clause	Test Items	Assessment
		All
4	Requirements	
4.1	General requirements	P
4.1.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	P
4.2	Toys to be worn on the head	NA
4.2.1	General	NA
4.2.2	Beards, moustaches, wigs, etc., made from pile or flowing elements which protrude 50 mm or more from the surface of the toy	NA
4.2.3	Beards, moustaches, wigs, etc., made from pile or flowing elements which protrude less than 50 mm from the surface of the toy	NA
4.2.4	Full or partial moulded head masks	NA
4.2.5	Toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, headdresses including upward protruding items and masks not covered by 4.2.4 which partially or fully cover the head(e.g. fabric and paperboard masks, eye masks face masks), but excluding those items covered by 4.3	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	NA

Remark:

- P = Pass; NA = Not Applicable; F=Fail



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### 3. EN71-3:2019+A1:2021 Migration of certain elements

Test Method: EN71-3:2019+A1:2021

Soluble Elements	CAS No.	Requirements	Sample, mg/kg							
		Category III, (Scraped-off material)	001	002	003	004	005	006	007	
Sample weight between (0.01g) 10 mg and (0.1g) 100 mg			--	--	--	--	--	--	--	--
Aluminum(Al)	7429-90-5	28,130	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Antimony(Sb)	7440-36-0	560	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic(As)	7440-38-2	47	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Barium(Ba)	7440-39-3	18,750	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Boron(B)	7440-42-8	15,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium(Cd)	7440-43-9	17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chromium <sup>(2)</sup>	7440-47-3	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
(Chromium III)	-	460	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
(Chromium VI)	-	0.053	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Cobalt(Co)	7440-48-4	130	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Copper(Cu)	7440-50-8	7,700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Lead(Pb)	7439-92-1	23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Manganese(Mn)	7439-96-5	15,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Mercury(Hg)	7439-97-6	94	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Nickel(Ni)	7440-02-0	930	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium(Se)	7782-49-2	460	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium(Sr)	7440-24-6	56,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tin(Sn)	7440-31-5	180,000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Organic Tin(Sn)	Various	12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc(Zn)	7440-66-6	46,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
<b>Rating</b>			PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS



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<u>Soluble Elements</u>	<u>CAS No.</u>	<u>Requirements</u>	<u>Sample, mg/kg</u>							
		<u>Category III, (Scraped-off material)</u>	<u>008</u>	<u>009</u>	<u>010</u>	<u>011</u>	<u>012</u>	<u>014</u>	<u>015</u>	
Sample weight between (0.01g) 10 mg and (0.1g) 100 mg			--	--	--	--	--	--	--	--
Aluminum(Al)	7429-90-5	28,130	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Antimony(Sb)	7440-36-0	560	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic(As)	7440-38-2	47	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Barium(Ba)	7440-39-3	18,750	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Boron(B)	7440-42-8	15,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium(Cd)	7440-43-9	17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chromium <sup>(2)</sup>	7440-47-3	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
(Chromium III)	-	460	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
(Chromium VI)	-	0.053	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Cobalt(Co)	7440-48-4	130	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Copper(Cu)	7440-50-8	7,700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Lead(Pb)	7439-92-1	23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Manganese(Mn)	7439-96-5	15,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Mercury(Hg)	7439-97-6	94	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Nickel(Ni)	7440-02-0	930	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium(Se)	7782-49-2	460	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium(Sr)	7440-24-6	56,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tin(Sn)	7440-31-5	180,000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Organic Tin(Sn)	Various	12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc(Zn)	7440-66-6	46,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
<b>Rating</b>			PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS



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<u>Soluble Elements</u>	<u>CAS No.</u>	<u>Requirements</u>	<u>Sample, mg/kg</u>
		<u>Category II (Liquid or sticky materials)</u>	<u>013</u>
Sample weight between (0.01g) 10 mg and (0.1g) 100 mg			--
Aluminum(Al)	7429-90-5	1,406	<5.0
Antimony(Sb)	7440-36-0	11.3	<5.0
Arsenic(As)	7440-38-2	0.9	<0.5
Barium(Ba)	7440-39-3	375	<5.0
Boron(B)	7440-42-8	300	<5.0
Cadmium(Cd)	7440-43-9	0.3	<0.2
Chromium <sup>(2)</sup>	7440-47-3	---	<2.0
(Chromium III)	-	9.4	<2.0
(Chromium VI)	-	0.005	<0.005
Cobalt(Co)	7440-48-4	2.6	<2.0
Copper(Cu)	7440-50-8	156	<5.0
Lead(Pb)	7439-92-1	0.5	<0.5
Manganese(Mn)	7439-96-5	300	<5.0
Mercury(Hg)	7439-97-6	1.9	<1.0
Nickel(Ni)	7440-02-0	18.8	<5.0
Selenium(Se)	7782-49-2	9.4	<5.0
Strontium(Sr)	7440-24-6	1,125	<5.0
Tin(Sn)	7440-31-5	3,750	<2.0
Organic Tin(Sn)	Various	0.2	<0.2
Zinc(Zn)	7440-66-6	938	<5.0
<b>Rating</b>			<b>PASS</b>

**Remarks :**

- Soluble migrated elements are determined by ICP-MS (Induced Couple Plasma Mass Spectrometry)
- If the chromium content of the tested sample does not exceed 0.05 mg/kg, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI are confirmed by LC-ICP-MS technique.
- # denotes: The chromium VI content is determined by LC-ICP-MS
- If the soluble tin content of the tested sample projected by the tin content does not exceed 4.0 mg/kg, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC. Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GC-MS analysis.
- ## denotes: The Organic Tin content is determined by GC-MS.
- \*\*Sample weight less than 10 mg is not required to test soluble elements according to EN71-3: 2019+A1:2021.



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## Test Material(s) List:

- (001) White plastic
- (002) Green plastic
- (003) Pink plastic
- (004) Black plastic
- (005) Matte white plastic
- (006) Bright pink plastic
- (007) White semi transparent soft plastic (hose)
- (008) White foam (waterproof pad)
- (009) Black coating
- (010) Pink coating
- (011) Transparent plastic (bottle)
- (012) White laminated film with red printed font
- (013) Bubble water
- (014) Orange plastic
- (015) Yellow plastic

## Photograph of Sample(s):



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