



中国认可  
国际互认  
检测  
TESTING  
CNAS L2929

## Test Report

No.: T52210261844TY

Date: MAY 07, 2022

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HAPPY ARTS&CRAFTS(NINGBO)CO.,  
LTD HAPE INTERNATIONAL (NINGBO) LTD  
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY,  
BEILUN, NINGBO, CHINA PC:315800

The following samples were submitted and identified by/on behalf of the client as:

E3764 RAILWAYBUCKET-BUILDER-SET

Item No.	: E3764
ASIN NO.	: B0867BWV8Y
Country of Origin	: CHINA
Country of Destination	: GLOBAL
Client Reference Information	: E3764A E8484,E8484A,E8484AE
Labeled Age Grading	: 3+
Requested Age Grading	: 3Y+

\*\*\*\*\*

Age Group Assessed by SGS As Per Age	: OVER 3 YEARS
Guideline	
Age Group Applied in Testing	: OVER 3 YEARS
Sample Receiving Date	: APR 22, 2022
Further Information Date	: MAY 06, 2022
Testing Period	: APR 22, 2022 TO MAY 07, 2022



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Test Requested		Conclusion
1.	For compliance with the test requirement of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety.	--
	ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS
2.	For compliance with test requirement of the Physical & Mechanical, Flammability test requirement of Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A	--
	Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501: <ul style="list-style-type: none"> <li>US CPSC 16 CFR 1500.48 – Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of ages</li> <li>US CPSC 16 CFR 1500.49 – Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age</li> <li>US CPSC 16 CFR 1501 – Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts</li> </ul>	PASS
	US CPSC 16 CFR 1500.19 – Misbranded toys and other articles intended for use by children #Not misbranded toys or articles intended for use by children	PASS#
	US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	PASS
3.	Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. - Part 1303 - Ban of Lead - Containing Paint and Certain Consumer Products Bearing Lead - Containing Paint – Lead Content	PASS
4.	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	PASS *



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Test Requested		Conclusion
5.	CPSIA section 101 - Total Lead content	--
	CPSIA section 101(f) (1) – Lead in paint/similar surface coating material	PASS
	Client's Requirement – Lead in paint/similar surface coating material	PASS
	CPSIA section 101(a) (2) – Lead in accessible substrate materials (Including Children's Metal Jewelry)	PASS
	Client's Requirement – Lead in accessible substrate materials (Including Children's Metal Jewelry)	PASS

Remark : Test item(s) with “\*” is(are) not accredited by CNAS.

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
SGS-CSTC Standards Technical  
Services Co., Ltd. Shenzhen Branch Testing Center

Qu Ping, Kiky  
Dept. Manager  
CNAS Approved Signatories

Huang Yao, Lucy  
Section Head  
CNAS Approved Signatories

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## Results:

### ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

Clause	Description	Result
4	Safety Requirements	
4.1	Material Quality **	Pass
4.2	Flammability Test	Pass (See Result Page)
4.3	Toxicology	
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	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	Pass (See Result Page)
4.3.5.2	Heavy Metal in Substrate Materials	Pass (See Result Page)
4.3.6	Cosmetic, Liquids, Pastes, Putties, Gels, Powders and Item 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
4.6.1	Small Objects	N/A
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Labelling Requirements	Pass
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass



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Clause	Description	Result
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	Pass
4.12	Plastic Film	Pass
4.13.1	Folding Mechanisms	N/A
4.13.2	Hinge-Line Clearance	N/A(see remark)
	(Remark : Not applicable because of the weight of movable part link with hinge is less than 0.5lb.)	
4.14	Cords, Straps and Elastic	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	Pass
4.18	Holes, Clearance & Accessibility of Mechanisms	N/A
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 (Rechargeable battery/Non-rechargeable battery)	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 and 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	Pass
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chest	N/A



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Clause	Description	Result
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.4	Aquatic Toys	N/A
5.5	Crib & Playpen Toys	N/A
5.6	Mobile	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 and Sharp 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	Pass
5.17	Magnets	N/A
6	Instructional Literature	
6.2	Crib & 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
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
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass



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<u>Clause</u>	<u>Description</u>	<u>Result</u>
8.8	Torque Test	<u>Pass</u>
8.9	Tension Test	<u>Pass</u>
8.10	Compression Test	<u>Pass</u>
8.12	Flexure Test	<u>N/A</u>
8.16	Tension Test for Pompoms	<u>N/A</u>

N/A = Not Applicable

\*\* Visual Examination

### Result Page:

#### Flammability Test (Clause 4.2)

#### Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
E3764 RAILWAYBUCKET-BUILDER-SET	0.1*

\*Burning rate has been rounded to the nearest one tenth of an inch per second.

Requirement: A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.



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## ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1

Method: With reference to ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

### Total Lead Content

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Reporting Limit (ppm)	20		
Total Limit (ppm)	90		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Light blue coating (Cover) + Red coating (Cover) w/ Orange, brown, black coating on soft plastic (Figure), dull orange, silvery, pale apricot coating (Figure)	1	1	ND
2. Transparent lacquer w/ green coating on wood (Tree) + Transparent lacquer w/ dark green coating on wood (Tree) + Pale yellow coating on wood (Board) w/ Multi-color coating on wood (Board)	1	2	ND
3. Transparent lacquer w/ dull blue coating on wood (Car) + Transparent lacquer w/ dull orange coating on wood (Car, crane) + Dark blue w/ pale blue coating on wood (Car)	1	3	ND
4. Transparent lacquer on wood (Cover, board) w/ Chocolate coating on wood (Cover) w/ White, blue, red (Sign), bright red (Accessory), pale grey (Station) coating	1	4	ND
5. Black (Car, board, crane, station) w/ Grey (Crane, station), white, dull red (Station) coating on wood + Shy-blue coating on wood (Car)	1	5	ND



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## Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm)				90	60	25	1000	75	60	60	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	8	1	43.6	ND	ND	ND	344	ND	ND	ND	ND
2	8	2	43.9	ND	ND	ND	284	ND	ND	ND	ND
3	8	3	26.5	ND	ND	ND	ND	ND	ND	ND	ND
4	8	4	/	ND	ND	ND	ND	ND	ND	ND	ND
5	8	5	/	ND	ND	ND	ND	ND	ND	ND	ND
6	8	6	/	ND	ND	ND	ND	ND	ND	ND	ND
7	8	7	/	ND	ND	ND	ND	ND	ND	ND	ND
8	8	8	/	ND	ND	ND	ND	ND	ND	ND	ND
9	8	9	/	ND	ND	ND	ND	ND	ND	ND	ND
10	8	10	84.8	ND	ND	ND	ND	ND	ND	ND	ND
11	8	33	/	ND	ND	ND	ND	ND	ND	ND	ND
12	8	34	/	ND	ND	ND	ND	ND	ND	ND	ND
13	8	35	57.8	ND	ND	ND	ND	ND	ND	ND	ND



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## Test Report

No.: T52210261844TY

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### Specimen Description:

1. Light blue coating (Cover)
2. Red coating (Cover)
3. Chocolate coating on wood (Cover)
4. Pale yellow coating on wood (Board)
5. Multi-color coating on wood (Board)
6. Transparent lacquer w/ green coating on wood (Tree)
7. Transparent lacquer w/ dark green coating on wood (Tree)
8. Transparent lacquer w/ dull blue coating on wood (Car)
9. Transparent lacquer w/ dull orange coating on wood (Car, crane)
10. Dark blue coating on wood (Car)
11. Transparent lacquer on wood (Cover, board)
12. Black coating on wood (Car, board, crane, station)
13. Shy-blue coating on wood (Car)

- Note:
- ppm = parts per million
  - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - For Soluble Heavy Metal Content:

Result(s) of specimen No.11 is(are) extracted from report No. T52110321297TY

- Result(s) of specimen No.12 is(are) extracted from report No. T52110280192TY
- Result(s) of specimen No.13 is(are) extracted from report No. T52210250061TY

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions

Pale blue (Car), grey (Crane, station), white, dull red (Station) coating on wood

White, blue, red (Sign), bright red (Accessory), dull orange, silvery, pale apricot (Figure), pale grey (Station) coating

Orange, brown, black coating on soft plastic (Figure)



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**ASTM F963-17, Clause 4.3.5.2 – Heavy Elements in Substrate Materials**

Method: With reference to CPSC-CH-E1002-08.3(non-metallic materials) /  
CPSC-CH-E1001-08.3(metal materials) / ASTM F963-17 Clause 8.3 / CPSC-CH-E1004-11

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

**Total Lead Content**

Test Item(s)			Lead (Pb)
MDL (ppm)			10
Total Limit (ppm)			100
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Grey plastic (Cover) + Light grey plastic (PP) (Buckle of cover) + Transparent green plastic (Box)	2	1	ND
2. Dark grey plastic (PE) (Accessory) + Grey plastic (PE) (Crane) + Red plastic (PE) (Crane)	2	2	ND
3. Black plastic (Crane, joint of car) + Red plastic (HIPS) (Track) + Brown plastic (HIPS) (Track)	2	3	ND
4. Grey plastic (PS) (Station) + Yellow plastic (PP) (Station) + Dark red plastic (HDPE) (Bridge)	2	4	ND
5. Dark grey plastic (ABS) (Sign, track) + White plastic (Accessory) + Bright black plastic (Accessory)	2	5	ND
6. Bright red plastic (Accessory) + Orange plastic (Body, leg of figure) + Bright orange plastic (Arm of figure)	2	6	ND
7. Apricot soft plastic (Head of figure) w/ Translucent dry glue (Fastener)	2	7	ND
8. Dull grey plastic (PP) (Wheel) + Matt-black plastic (PP) (Wheel) + Dull apricot plastic (Joint of track)	2	8	ND
9. Brown Hardboard	2	9	ND
10. Silvery metal rivet (Car, crane)	6	1	ND
11. Silvery metal carved rivet (Car, crane)	6	2	ND



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## Test Report

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### Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm) -- Other Than Modeling Clays				90	60	25	1000	75	60	60	500
Migration Limit (ppm) -- Modeling Clays				90	60	25	250	50	25	25	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	8	11	/	ND	ND	ND	ND	ND	ND	ND	ND
2	8	12	/	ND	ND	ND	ND	ND	ND	ND	ND
3	8	13	/	ND	ND	ND	ND	ND	ND	ND	ND
4	8	14	/	ND	ND	ND	ND	ND	ND	ND	ND
5	8	15	/	ND	ND	ND	ND	ND	ND	ND	ND
6	8	16	/	ND	ND	ND	ND	ND	ND	ND	ND
7	8	17	/	ND	ND	ND	ND	ND	ND	ND	ND
8	8	18	/	ND	ND	ND	ND	ND	ND	ND	ND
9	8	19	/	ND	ND	ND	ND	ND	ND	ND	ND
10	8	20	/	ND	ND	ND	ND	ND	ND	ND	ND
11	8	21	/	ND	ND	ND	ND	ND	ND	ND	ND
12	8	22	/	ND	ND	ND	ND	ND	ND	ND	ND
13	8	23	/	ND	ND	ND	ND	ND	ND	ND	ND
14	8	24	/	ND	ND	ND	ND	ND	ND	ND	ND
15	8	25	/	ND	ND	ND	ND	ND	ND	ND	ND
16	8	26	/	ND	ND	ND	ND	ND	ND	ND	ND
17	8	27	/	ND	ND	ND	ND	ND	ND	ND	ND
18	8	28	/	ND	ND	ND	ND	ND	ND	ND	ND
19	8	29	/	ND	ND	ND	ND	ND	ND	ND	ND
20	8	30	/	ND	ND	ND	ND	ND	ND	ND	ND
21	8	31	/	ND	ND	ND	ND	ND	ND	ND	ND
22	8	32	/	ND	ND	ND	ND	ND	ND	ND	ND
23	8	36	98.2	ND	ND	ND	ND	ND	ND	ND	ND
24	8	37	/	ND	ND	ND	12	ND	ND	ND	ND



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## Specimen Description:

1. Grey plastic (Cover)
2. Light grey plastic (PP) (Buckle of cover)
3. Transparent green plastic (Box)
4. Dark grey plastic (PE) (Accessory)
5. Grey plastic (PE) (Crane)
6. Red plastic (PE) (Crane)
7. Black plastic (Crane, joint of car)
8. Red plastic (HIPS) (Track)
9. Brown plastic (HIPS) (Track)
10. Grey plastic (PS) (Station)
11. Yellow plastic (PP) (Station)
12. Dark red plastic (HDPE) (Bridge)
13. Dark grey plastic (ABS) (Sign, track)
14. White plastic (Accessory)
15. Bright black plastic (Accessory)
16. Bright red plastic (Accessory)
17. Orange plastic (Body, leg of figure)
18. Bright orange plastic (Arm of figure)
19. Apricot soft plastic (Head of figure)
20. Dull grey plastic (PP) (Wheel)
21. Matt-black plastic (PP) (Wheel)
22. Dull apricot plastic (Joint of track)
23. Translucent dry glue (Fastener)
24. Brown Hardboard



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## Test Report

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- Note:
- ppm = parts per million
  - µg/component = microgramme per component
  - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - For Soluble Heavy Metal Content:  
Result(s) of specimen No.23 is(are) extracted from report No. T52210241079TY
  - Result(s) of specimen No.24 is(are) extracted from report No. T52110280192TY

### US CPSC

#### PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

AS SPECIFIED IN PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

	No. of sample tested	Sharp point (16 CFR 1500.48)	Sharp edge (16 CFR 1500.49)	Small part (16 CFR 1501)
As received	1	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	1	Pass	Pass	N/A
Bite test (16 CFR 1500.52c)	0	N/A	N/A	N/A
Flexure test (16 CFR 1500.53d)	0	N/A	N/A	N/A
Torque test (16 CFR 1500.53e)	1	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	1	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	1	Pass	Pass	N/A

N/A = Not Applicable



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## US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

AS SPECIFIED IN US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

Appropriate warning according to 16 CFR 1500.19 was found on the principle display panel of the product's packaging.

## US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

AS SPECIFIED IN US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
E3764 RAILWAYBUCKET-BUILDER-SET	0.1*

\*Burning rate has been rounded to the nearest one tenth of an inch per second.

Requirement: A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.



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**CPSC 16 CFR 1303 - Lead in Paint/Similar Surface Coating Materials**

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Light blue coating (Cover) + Red coating (Cover) w/ Orange, brown, black coating on soft plastic (Figure), dull orange, silvery, pale apricot coating (Figure)	3	1	ND
2. Transparent lacquer w/ green coating on wood (Tree) + Transparent lacquer w/ dark green coating on wood (Tree) + Pale yellow coating on wood (Board) w/ Multi-color coating on wood (Board)	3	2	ND
3. Transparent lacquer w/ dull blue coating on wood (Car) + Transparent lacquer w/ dull orange coating on wood (Car, crane) + Dark blue w/ pale blue coating on wood (Car)	3	3	ND
4. Transparent lacquer on wood (Cover, board) w/ Chocolate coating on wood (Cover) w/ White, blue, red (Sign), bright red (Accessory), pale grey (Station) coating	3	4	ND
5. Black (Car, board, crane, station) w/ Grey (Crane, station), white, dull red (Station) coating on wood + Shy-blue coating on wood (Car)	3	5	ND

- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 10 ppm
  - 1% = 10000 mg/kg = 10000 ppm



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

**- Tracking label found on the packaging:**

- 1) Name: Hape International AG
- 2) Location: MADE IN CHINA  
P1922402552 NBCN 11/2019
- 3) Date: P1922402552 NBCN 11/2019
- 4) Cohort information: P1922402552 NBCN 11/2019

**- Tracking label found on the product:**

- 1) Name: Hape International AG
- 2) Location: P2123200307 NBCN 01/2022, Made in China
- 3) Date: P2123200307 NBCN 01/2022
- 4) Cohort information: P2123200307 NBCN 01/2022

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.



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## CPSIA - Lead in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Client's Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Light blue coating (Cover) + Red coating (Cover) w/ Orange, brown, black coating on soft plastic (Figure), dull orange, silvery, pale apricot coating (Figure)	4	1	ND
2. Transparent lacquer w/ green coating on wood (Tree) + Transparent lacquer w/ dark green coating on wood (Tree) + Pale yellow coating on wood (Board) w/ Multi-color coating on wood (Board)	4	2	ND
3. Transparent lacquer w/ dull blue coating on wood (Car) + Transparent lacquer w/ dull orange coating on wood (Car, crane) + Dark blue w/ pale blue coating on wood (Car)	4	3	ND
4. Transparent lacquer on wood (Cover, board) w/ Chocolate coating on wood (Cover) w/ White, blue, red (Sign), bright red (Accessory), pale grey (Station) coating	4	4	ND
5. Black (Car, board, crane, station) w/ Grey (Crane, station), white, dull red (Station) coating on wood + Shy-blue coating on wood (Car)	4	5	ND

- Note:
- ppm = parts per million
  - 1% = 10000 mg/kg = 10000 ppm
  - MDL = Method Detection Limit = 10 ppm
  - ND = Not Detected (lower than MDL)



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## CPSIA - Lead in Accessible Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product

Method (metal materials): With reference to CPSC-CH-E1001-08.3 - Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)

Test Item(s)			Lead (Pb)
Permissible Limit **(ppm)			100
Client's Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Grey plastic (Cover) + Light grey plastic (PP) (Buckle of cover) + Transparent green plastic (Box)	5	1	ND
2. Dark grey plastic (PE) (Accessory) + Grey plastic (PE) (Crane) + Red plastic (PE) (Crane)	5	2	ND
3. Black plastic (Crane, joint of car) + Red plastic (HIPS) (Track) + Brown plastic (HIPS) (Track)	5	3	ND
4. Grey plastic (PS) (Station) + Yellow plastic (PP) (Station) + Dark red plastic (HDPE) (Bridge)	5	4	ND
5. Dark grey plastic (ABS) (Sign, track) + White plastic (Accessory) + Bright black plastic (Accessory)	5	5	ND
6. Bright red plastic (Accessory) + Orange plastic (Body, leg of figure) + Bright orange plastic (Arm of figure)	5	6	ND
7. Apricot soft plastic (Head of figure) w/ Translucent dry glue (Fastener)	5	7	ND
8. Dull grey plastic (PP) (Wheel) + Matt-black plastic (PP) (Wheel) + Dull apricot plastic (Joint of track)	5	8	ND
9. Brown Hardboard	5	9	ND
10. Silvery metal rivet (Car, crane)	7	1	ND
11. Silvery metal carved rivet (Car, crane)	7	2	ND

\*\* Permissible Limit applies to a children's product manufactured after 14 August 2011 (Public Law 110-314 (Consumer Product Safety Improvement Act of 2008) and its Amendments Public Law 112-28)

- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 10 ppm
  - 1% = 10000 mg/kg = 10000 ppm



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### Remark:

1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability( $k=2$ ),  $w = U_{95}$ . The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit ( $T_U$ ):

Pass - when the measurement result is below  $T_U - U_{95}$

Fail - when the measurement result is above  $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band  $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit ( $T_L$ ):

Pass - when the measurement result is above  $T_L + U_{95}$

Fail - when the measurement result is below  $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band  $[T_L - U_{95}, T_L + U_{95}]$

### Sample Photo:



SGS authenticate the photo on original report only

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



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