



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T52210271833TY

Date: AUG 05, 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:

E3820 BRAVE LITTLE ENGINE,E3761 CRANK-POWERED TRAIN,E3703 BATTERY POWERED
ENGINE NO. 1,E3731 CARGO DELIVERY LOOP,E3720 BATTERY POWERED ROLLING-STOCK
SET

Item No.	:	E3820, E3761, E3703, E3731, E3720
ASIN NO.	:	B07B4ZG5MH,B01FH04300,B07B4YQG34
Country of Destination	:	GLOBAL
Client Reference Information	:	E3820A,E3761A,E3703A,E3731A,E3720A
Labeled Age Grading	:	18M+ / 3+ / 3Y+
Requested Age Grading	:	18M+

Age Group Assessed by SGS As Per Age	:	OVER 18 MONTHS FOR OTHERS;
Guideline	:	OVER 3 YEARS FOR ITEM NO. E3731
Age Group Applied in Testing	:	OVER 18 MONTHS
Sample Receiving Date	:	MAY 25, 2022
Testing Period	:	MAY 25, 2022 TO AUG 05, 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"> - 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 - 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 - 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 	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



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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	Pass
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Labelling Requirements	N/A
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	Pass



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Clause	Description	Result
4.12	Plastic Film	Pass
4.13.1	Folding Mechanisms	N/A
4.13.2	Hinge-Line Clearance	N/A
	(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	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	Pass
	Remark: Applicant needs to ensure that the secondary battery supplied with electric toy shall comply with relevant parts of IEC 62133 or UL1642 / UL 2054 or ANSI C18.2M	
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	N/A
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	N/A
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	Pass
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



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Clause	Description	Result
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	Pass
8.12	Flexure Test	N/A
8.16	Tension Test for Pompoms	N/A

N/A = Not Applicable

** Visual Examination

Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample	Burning Rate (inch/sec)
E3820 BRAVE LITTLE ENGINE,E3761 CRANK-POWERED TRAIN,E3703 BATTERY POWERED ENGINE NO. 1,E3731 CARGO DELIVERY LOOP, E3720 BATTERY POWERED ROLLING-STOCK SET	0.02

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 / 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
Total Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Transparent lacquer w/ green coating on wood (Block) w/ Dark grey coating on plastic (Train) w/ Black coating on plastic (Train, signboard) w/ Pale blue coating on plastic (Train) w/ Bright yellow coating on plastic (Train) w/ Bright green coating on wood (Block)	5	1	ND
2. Yellow coating on wood (Block) w/ Golden coating on plastic (Train) w/ Grey-black, blue coating on plastic (Train) w/ White coating on plastic (Signboard, train) w/ Bright dark red coating on plastic (Train) w/ Dull orange coating on wood (Lift, block)	5	2	ND
3. Transparent lacquer coating on wood (Tree, lift) + Black coating on wood (Train, lift) w/ Grass green coating on wood (Tree) w/ Bright grass green coating on wood (Tree) w/ Grey coating on wood (Lift)	5	3	ND
4. Black coating on metal (Train) w/ Blue coating on metal (Train)	5	4	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	2	15.1	ND	ND	ND	21	ND	ND	ND	ND
2	8	7	16.9	ND	ND	ND	ND	ND	7	ND	ND
3	8	16	/	ND	ND	ND	ND	ND	ND	ND	ND
4	8	17	/	ND	ND	ND	ND	ND	ND	ND	ND
5	8	20	26.3	ND	ND	ND	ND	ND	ND	ND	ND
6	8	22	/	ND	ND	ND	ND	ND	ND	ND	ND
7	8	32	/	ND	ND	ND	ND	ND	ND	ND	ND
8	8	37	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Dark grey coating on plastic (Train)
2. Golden coating on plastic (Train)
3. Black coating on wood (Train, lift)
4. Grey coating on wood (Lift)
5. Grass green coating on wood (Tree)
6. Yellow coating on wood (Block)
7. Transparent lacquer coating on wood (Tree, lift)
8. Transparent lacquer w/ green coating on wood (Block)

- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - Result(s) of specimen No.7 is(are) extracted from report No. T52110321297TY
 - Result(s) of specimen No.8 is(are) extracted from report No. T52210261844TY



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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

Blue coating on metal (Train)

Grey-black, blue coating on plastic (Train)

White coating on plastic (Signboard, train)

Black coating on metal (Train)

Bright dark red coating on plastic (Train)

Black coating on plastic (Train, signboard)

Pale blue coating on plastic (Train)

Dull orange coating on wood (Lift, block)

Bright yellow coating on plastic (Train)

Bright grass green coating on wood (Tree)

Bright green coating on wood (Block)



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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 / CPSC-CH-E1001-08.3 / 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. Silvery metal big part (Chassis)	1	1	13
2. Silvery metal cap	1	2	ND
3. Silvery metal cap w/ logo	1	3	ND
4. Bright silvery metal big rivet w/ logo	1	4	ND
5. Bright silvery metal small rivet w/ logo	1	5	ND
6. Silvery metal chassis	1	6	ND
7. Black metal triangular screw	1	7	ND
8. Iridescent bright silvery metal part	1	8	ND
9. Blue plastic (ABS) (Train) w/ Translucent plastic (Small LED)	3	1	ND
10. Dark green plastic (Train) + Cream-white plastic (Train)	3	2	ND
11. Dull grey plastic (Crane) + Black plastic (Crane, connector) + Black plastic (Holder)	3	3	ND
12. Light grey plastic (ABS) (Wheel) + Bright red plastic (PP) (Lift) + Black soft plastic (Wheel)	3	4	ND
13. Grey plastic (PA) (Handle) w/ Transparent plastic (LED) + Light grey plastic (PP) (Wheel)	3	5	ND
14. Dark grey plastic (ABS) (Signboard) + Yellow plastic (ABS) (Train) + Black plastic (ABS) (Train)	3	6	ND
15. Red plastic (ABS) (Train) + Orange plastic (ABS) (Train)	3	7	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) -- 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	1	41.5	ND	ND	ND	ND	ND	ND	ND	ND
2	8	4	/	ND	ND	ND	ND	ND	ND	ND	ND
3	8	5	/	ND	ND	ND	ND	ND	ND	ND	ND
4	8	6	/	ND	ND	ND	ND	ND	ND	ND	ND
5	8	9	/	ND	ND	ND	ND	ND	ND	ND	ND
6	8	10	/	ND	ND	ND	ND	ND	ND	ND	ND
7	8	11	/	ND	ND	ND	ND	ND	ND	ND	ND
8	8	12	/	ND	ND	ND	ND	ND	ND	ND	ND
9	8	13	/	ND	ND	ND	ND	ND	ND	ND	ND
10	8	14	/	ND	ND	ND	ND	ND	ND	ND	ND
11	8	19	88.4	ND	ND	ND	ND	ND	ND	ND	ND
12	8	21	/	ND	ND	ND	ND	ND	ND	ND	ND
13	8	30	/	ND	ND	ND	ND	ND	ND	ND	ND
14	8	31	/	ND	ND	ND	ND	ND	ND	ND	ND
15	8	33	/	ND	ND	ND	ND	ND	ND	ND	ND
16	8	34	/	ND	ND	ND	ND	ND	ND	ND	ND
17	8	35	/	ND	ND	ND	ND	ND	ND	ND	ND
18	8	36	/	ND	ND	ND	ND	ND	ND	ND	ND



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Specimen Description:

1. Translucent plastic (Small LED)
2. Blue plastic (ABS) (Train)
3. Dark green plastic (Train)
4. Cream-white plastic (Train)
5. Dull grey plastic (Crane)
6. Black plastic (Crane, connector)
7. Black plastic (Holder)
8. Light grey plastic (ABS) (Wheel)
9. Bright red plastic (PP) (Lift)
10. Black soft plastic (Wheel)
11. Transparent plastic (LED)
12. Grey plastic (PA) (Handle)
13. Light grey plastic (PP) (Wheel)
14. Dark grey plastic (ABS) (Signboard)
15. Yellow plastic (ABS) (Train)
16. Black plastic (ABS) (Train)
17. Red plastic (ABS) (Train)
18. Orange plastic (ABS) (Train)

- 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
 - Result(s) of specimen No.13, No.14 is(are) extracted from report No. T52210261844TY
 - Result(s) of specimen No.15, No.16 is(are) extracted from report No. T52210262151TY
 - Result(s) of specimen No.17, No.18 is(are) extracted from report No. T52210241079TY



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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

	<u>No. of sample tested</u>	<u>Sharp point (16 CFR 1500.48)</u>	<u>Sharp edge (16 CFR 1500.49)</u>	<u>Small part (16 CFR 1501)</u>
As received	5	Pass	Pass	Pass
Impact test (16 CFR 1500.52b)	5	Pass	Pass	Pass
Bite test (16 CFR 1500.52c)	5	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)	5	Pass	Pass	Pass
Tension test (16 CFR 1500.52f)	5	Pass	Pass	Pass
Compression test (16 CFR 1500.53g)	5	Pass	Pass	Pass

N/A = Not Applicable

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>
E3820 BRAVE LITTLE ENGINE,E3761 CRANK-POWERED TRAIN,E3703 BATTERY POWERED ENGINE NO. 1,E3731 CARGO DELIVERY LOOP,E3720 BATTERY POWERED ROLLING-STOCK SET	0.02

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. Transparent lacquer w/ green coating on wood (Block) w/ Dark grey coating on plastic (Train) w/ Black coating on plastic (Train, signboard) w/ Pale blue coating on plastic (Train) w/ Bright yellow coating on plastic (Train) w/ Bright green coating on wood (Block)	6	1	ND
2. Yellow coating on wood (Block) w/ Golden coating on plastic (Train) w/ Grey-black, blue coating on plastic (Train) w/ White coating on plastic (Signboard, train) w/ Bright dark red coating on plastic (Train) w/ Dull orange coating on wood (Lift, block)	6	2	ND
3. Transparent lacquer coating on wood (Tree, lift) + Black coating on wood (Train, lift) w/ Grass green coating on wood (Tree) w/ Bright grass green coating on wood (Tree) w/ Grey coating on wood (Lift)	6	3	ND
4. Black coating on metal (Train) w/ Blue coating on metal (Train)	6	4	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 Inc
- 2) Location: MADE IN CHINA
P2122403324NBCN 04/2022;
P2122400493NBCN 07/2021;
P2122402842NBCN 03/2022;
P2122400317NBCN 04/2022;
P2122403448NBCN 04/2022;
- 3) Date: P2122403324NBCN 04/2022;
P2122400493NBCN 07/2021;
P2122402842NBCN 03/2022;
P2122400317NBCN 04/2022;
P2122403448NBCN 04/2022;
- 4) Cohort information: P2122403324NBCN 04/2022;
P2122400493NBCN 07/2021;
P2122402842NBCN 03/2022;
P2122400317NBCN 04/2022;
P2122403448NBCN 04/2022;



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- Tracking label found on the product:

- 1) Name: Hape
- 2) Location: P2122403324NBCN 04/2022;
P2122400493NBCN 07/2021;
P2122402842NBCN 03/2022;
P2122400317NBCN 04/2022;
P2122403448NBCN 04/2022;
- 3) Date: P2122403324NBCN 04/2022;
P2122400493NBCN 07/2021;
P2122402842NBCN 03/2022;
P2122400317NBCN 04/2022;
P2122403448NBCN 04/2022;
- 4) Cohort information: P2122403324NBCN 04/2022;
P2122400493NBCN 07/2021;
P2122402842NBCN 03/2022;
P2122400317NBCN 04/2022;
P2122403448NBCN 04/2022;

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. Transparent lacquer w/ green coating on wood (Block) w/ Dark grey coating on plastic (Train) w/ Black coating on plastic (Train, signboard) w/ Pale blue coating on plastic (Train) w/ Bright yellow coating on plastic (Train) w/ Bright green coating on wood (Block)	7	1	ND
2. Yellow coating on wood (Block) w/ Golden coating on plastic (Train) w/ Grey-black, blue coating on plastic (Train) w/ White coating on plastic (Signboard, train) w/ Bright dark red coating on plastic (Train) w/ Dull orange coating on wood (Lift, block)	7	2	ND
3. Transparent lacquer coating on wood (Tree, lift) + Black coating on wood (Train, lift) w/ Grass green coating on wood (Tree) w/ Bright grass green coating on wood (Tree) w/ Grey coating on wood (Lift)	7	3	ND
4. Black coating on metal (Train) w/ Blue coating on metal (Train)	7	4	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. Silvery metal big part (Chassis)	2	1	13
2. Silvery metal cap	2	2	ND
3. Silvery metal cap w/ logo	2	3	ND
4. Bright silvery metal big rivet w/ logo	2	4	ND
5. Bright silvery metal small rivet w/ logo	2	5	ND
6. Silvery metal chassis	2	6	ND
7. Black metal triangular screw	2	7	ND
8. Iridescent bright silvery metal part	2	8	ND
9. Blue plastic (ABS) (Train) w/ Translucent plastic (Small LED)	4	1	ND
10. Dark green plastic (Train) + Cream-white plastic (Train)	4	2	ND
11. Dull grey plastic (Crane) + Black plastic (Crane, connector) + Black plastic (Holder)	4	3	ND
12. Light grey plastic (ABS) (Wheel) + Bright red plastic (PP) (Lift) + Black soft plastic (Wheel)	4	4	ND
13. Transparent plastic (LED) + Grey plastic (PA) (Handle) + Light grey plastic (PP) (Wheel)	4	5	ND
14. Dark grey plastic (ABS) (Signboard) + Yellow plastic (ABS) (Train) + Black plastic (ABS) (Train)	4	6	ND
15. Red plastic (ABS) (Train) + Orange plastic (ABS) (Train)	4	7	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 $[T_L - U_{95}, T_L + U_{95}]$



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Sample Picture (As received)

Pic.1



Pic.2



Pic.3



Pic.4



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Sample Picture (As received)

Pic.5



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