



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T52210271829TY

Date: JUL 08, 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:

E3823 RAILWAY PLAY TABLE,
E3807 JUNGLE JOURNEY TRAIN,
E3824,E3801 JUNGLE ADVENTURE RAILWAY TABLE,
E3821 NUTTY SQUIRREL RAILWAY,
E3808 WHISTLING PARROT ENGINE,
E3822 SENSORY RAILWAY,
E3825 MUSIC AND MONKEYS RAILWAY

Item No. : E3823, E3807, E3824, E3801, E3821, E3808, E3822,
E3825
Country of Destination : GLOBAL
Client Reference Information : E3823A,E3807A,E3824A,E3801A,E3821A,E3808A,E382
2A,E3825A
Labeled Age Grading : 18M+
Requested Age Grading : 18M+

Age Group Assessed by SGS As Per Age : OVER 18 MONTHS
Guideline
Age Group Applied in Testing : OVER 18 MONTHS
Sample Receiving Date : MAY 25, 2022
Last Submission Sample Date : JUN 29, 2022
Testing Period : MAY 25, 2022 TO JUL 08, 2022



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中国·广东·深圳市龙岗区坂田街道坂田社区吉华路430号江灏(坂田)工业厂区厂房4号 101-901、2号101、3号301-501 邮编: 518129 t:(86-755) 25328888 sgs.china@sgs.com

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	Test Requested	Conclusion
1.	<p>Per applicant's request, for compliance with the selected requirement(s) of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety. Refer to test result page(s) for details.</p> <p>(Selected tests item as specified by the applicant, please refer to test result page(s) for details)</p>	--
	<p>ASTM F963-17 Standard Consumer Safety Specification for Toy Safety</p> <p>(Except Clause 4.3.8)</p>	PASS
2.	<p>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</p>	--
	<p>Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501:</p> <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
	<p>US CPSC 16 CFR 1510 – REQUIREMENTS FOR RATTLES</p>	PASS
	<p>US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids</p>	PASS
3.	<p>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</p>	PASS
4.	<p>Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.</p>	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

***** 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



Huang Yao, Lucy
Section Head
CNAS Approved Signatories

Qu Ping, Kiky
Dept. Manager
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:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	<u>Pass (See Result Page)</u>
4.3	Toxicology	
4.3.2	Manufacturing and Packaging of Food	<u>N/A</u>
4.3.3	Indirect Food Additives	<u>N/A</u>
4.3.4	Cosmetics	<u>N/A</u>
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass (See Result Page)</u>
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass (See Result Page)</u>
4.3.6	Cosmetic, Liquids, Pastes, Putties, Gels, Powders and Item of Avian Feather Origin	<u>N/A</u>
4.3.7	Stuffing Materials	<u>N/A</u>
4.4	Electrical/Thermal Energy	<u>N/A</u>
4.5	Sound-Producing Toys	<u>Pass</u>
4.6.1	Small Objects	<u>Pass*</u>
*Retest samples were submitted on JUN 29, 2022.		
4.6.2	Mouth-Actuated Toys	<u>N/A</u>
4.6.3	Labelling Requirements	<u>N/A</u>
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.10	Wires or Rods	<u>Pass</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.12	Plastic Film	<u>Pass*</u>
*Retest samples were submitted on JUN 29, 2022.		
4.13.1	Folding Mechanisms	<u>N/A</u>
4.13.2	Hinge-Line Clearance	<u>N/A</u>



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<u>Clause</u>	<u>Description</u>	<u>Result</u>
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	Pass
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
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass*
	*Retest samples were submitted on JUN 14, 2022.	
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



<u>Clause</u>	<u>Description</u>	<u>Result</u>
5.8	Toys Intended to be Assembled by an Adult *Retest samples were submitted on JUN 14, 2022.	<u>Pass*</u>
5.9	Simulated Protective Devices	<u>N/A</u>
5.10	Toys with Functional Sharp Edges and Sharp Points	<u>N/A</u>
5.11	Small Objects, Small Balls, Marbles, and Balloons	<u>N/A</u>
5.12	Toy Caps	<u>N/A</u>
5.13	Art Materials	<u>N/A</u>
5.14	Electric Toys	<u>N/A</u>
5.15	Battery-Operated Toys	<u>N/A</u>
5.16	Promotional Materials	<u>Pass</u>
5.17	Magnets	<u>N/A</u>
6	Instructional Literature	
6.2	Crib & Playpen Toys	<u>N/A</u>
6.3	Mobiles	<u>N/A</u>
6.4	Toys Intended to be Assembled by an Adult *Retest samples were submitted on JUN 14, 2022.	<u>Pass*</u>
6.5	Battery-Operated Toys	<u>N/A</u>
6.6	Battery Powered Ride-on Toys	<u>N/A</u>
6.7	Toys in Contact with Food	<u>N/A</u>
6.8	Toy Chests	<u>N/A</u>
7	Producer's Markings	
7.1	Producer's Markings	<u>Pass</u>
7.2	Battery-Powered Ride-on Toys	<u>N/A</u>
7.3	Toy Chests	<u>N/A</u>
8.5	Normal Use Testing	<u>Pass</u>
8.7	Impact Test *Retest samples were submitted on JUN 29, 2022.	<u>Pass*</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>Pass</u>
8.16	Tension Test for Pompoms	<u>N/A</u>

N/A = Not Applicable



Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

E3823 RAILWAY PLAY TABLE,
E3807 JUNGLE JOURNEY TRAIN,
E3824,E3801 JUNGLE ADVENTURE RAILWAY TABLE,
E3821 NUTTY SQUIRREL RAILWAY,
E3808 WHISTLING PARROT ENGINE,
E3822 SENSORY RAILWAY,
E3825 MUSIC AND MONKEYS RAILWAY

Burning Rate (inch/sec)

0.03

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.

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. Multi-color coating on wood (Board, accessory) + White coating on wood (Board, accessory) + Transparent lacquer w/ light sky-blue coating on wood (Board, accessory, button)	5	1	ND
2. White coating on metal (Leg) + Light blue coating on metal (Rod)	5	2	ND
3. Yellow coating on metal (Rod, key) + Orange coating on metal (Key)	5	3	ND
4. Green coating on metal (Key) + Pale blue coating on metal (Key) + Blue coating on metal (Key)	5	4	ND
5. Transparent lacquer w/ red coating on wood (Logo, board, bead, train, track, block) w/ Pale red (Button bead), dark red (Bead), light blue (Bead, train), black (Bead, train, lettering), brown, dull yellow (Train, button) coating on wood	5	5	ND



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Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	90		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
6. Transparent lacquer w/ yellow-green coating (Ball, button) w/ Dull red, dull dark red, apricot coating on wood (Ball)	5	6	ND
7. Transparent lacquer w/ blue coating on wood (Train) w/ Red coating on plastic (Train) w/ White, grey-black coating on plastic (Train, monkey) w/ Light brown coating on plastic (Monkey) w/ Dark green coating on plastic (Base)	5	7	ND
8. Dull dark green coating on wood (Block) + Dark green coating on wood (Block, base) + Transparent lacquer w/ green coating on wood (Bead, train, block, edge, ball, button, track)	5	8	ND
9. Transparent lacquer coating on wood + Light yellow coating on wood (Bead, button, track)	5	9	ND
10. Transparent lacquer w/ orange coating on wood (Train, bead, button) + Transparent lacquer w/ dark blue coating on wood (Train, bead, button, track)	5	10	ND

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	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	8	2	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	8	3	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	8	7	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	8	8	/	ND	ND	ND	19	ND	ND	ND	ND	ND
6	8	9	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	8	13	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	8	19	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	8	21	18.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	8	29	64.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	8	32	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	8	33	77.5	ND	ND	ND	12	ND	ND	ND	ND	ND
13	8	35	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	8	36	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	8	41	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	8	44	/	ND	ND	ND	91	ND	ND	ND	ND	ND



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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)							
17	8	45	/	ND	ND	ND	22	ND	ND	ND	ND
18	8	46	/	ND	ND	ND	20	ND	ND	ND	ND
19	8	47	/	ND	ND	ND	22	ND	ND	ND	ND
20	8	48	/	ND	ND	ND	ND	ND	ND	ND	ND
21	8	49	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Multi-color coating on wood (Board, accessory)
2. White coating on wood (Board, accessory)
3. White coating on metal (Leg)
4. Transparent lacquer w/ light sky-blue coating on wood (Board, accessory, button)
5. Light blue coating on metal (Rod)
6. Yellow coating on metal (Rod, key)
7. Transparent lacquer w/ red coating on wood (Logo, board, bead, train, track, block)
8. Transparent lacquer w/ yellow-green coating (Ball, button)
9. Red coating on plastic (Train)
10. Transparent lacquer w/ blue coating on wood (Train)
11. Dull dark green coating on wood (Block)
12. Dark green coating on wood (Block, base)
13. Transparent lacquer w/ green coating on wood (Bead, train, block, edge, ball, button, track)
14. Transparent lacquer coating on wood
15. Light yellow coating on wood (Bead, button, track)
16. Orange coating on metal (Key)
17. Green coating on metal (Key)
18. Pale blue coating on metal (Key)
19. Blue coating on metal (Key)
20. Transparent lacquer w/ orange coating on wood (Train, bead, button)
21. Transparent lacquer w/ dark blue coating on wood (Train, bead, button, track)



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Test Report

No.: T52210271829TY

Date: JUL 08, 2022

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- 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.13 is(are) extracted from report No. T52210261844TY

Result(s) of specimen No.14 is(are) extracted from report No. T52110321297TY

Result(s) of specimen No.15 - No.19 is(are) extracted from report No. T52210262151TY

Result(s) of specimen No.20 - No.21 is(are) extracted from report No. T52210241079TY

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 red (Button bead), dark red (Bead), light blue (Bead, train), black (Bead, train, lettering), brown, dull yellow (Train button) coating on wood

Dull red, dull dark red, apricot coating on wood (Ball)

White, grey-black coating on plastic (Train, monkey)

Light brown coating on plastic (Monkey)

Dark green coating on plastic (Base)



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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 cap	1	1	ND
2. Bright silvery metal big rivet w/ logo	1	2	ND
3. Bright silvery metal small rivet w/ logo	1	3	ND
4. Iridescent metal nut	1	4	ND
5. Iridescent metal small nut	1	5	ND
6. Light silvery metal big head screw	1	6	ND
7. Silvery metal board (Leg)	1	7	ND
8. Dull silvery metal bolt	1	8	ND
9. Silvery metal screw	1	9	ND
10. Silvery metal rod	1	10	ND
11. Silvery metal holder	1	11	ND
12. Silvery metal big head rivet	1	12	ND
13. Bright silvery metal bolt	1	13	17
14. Shiny silvery metal flat screw	1	14	ND
15. Dull silvery metal flat screw	1	15	ND
16. Bright silvery metal bell	1	16	ND
17. Bright silvery metal big screw	1	17	19
18. Silvery metal huge head bolt	1	18	ND
19. Silvery metal flat bolt	1	19	ND
20. Bright silvery metal flat screw (Bottom)	1	20	ND
21. Silvery metal key	1	21	ND
22. Light brown hardboard + Cream polywood (Leg) + Brown Hardboard	3	1	ND
23. Dark grey plastic (PP) (Wheel) + Green plastic (Wheel) (PP) + Dark cream plastic (PC) (Buckle)	3	2	ND
24. Blue plastic (PP) (Wheel) + Bright dark blue plastic (ABS) (Holder, track) + Dark red plastic (ABS) (Xylophone, base)	3	3	ND



Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
25. Dark orange plastic (ABS) (Bead) + Green plastic (ABS) (Bead) + Dark blue plastic (ABS) (Bead)	3	4	ND
26. Black soft plastic (Base) + Brown plastic (ABS) (Monkey) + Dull green plastic (ABS) (Base)	3	5	ND
27. Black plastic (Connector) + Bright red plastic (PP) (Wheel) + Yellow plastic (ABS) (Bead, track, holder, train)	3	6	ND
28. Black plastic (ABS) (Buckle) + Yellow plastic (PP) (Wheel) + Red plastic (ABS) (Bead, track, holder, bead)	3	7	ND
29. Transparent plastic (Shade)	3	8	ND
30. Transparent plastic (Mirror) + Cream-white plastic (Holder)	3	9	ND

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	4	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	8	5	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	8	6	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	8	10	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	8	11	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
6	8	12	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	8	15	/	ND	9	ND	ND	ND	ND	ND	ND	ND
8	8	16	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	8	17	48.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	8	18	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	8	23	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	8	24	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	8	25	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	8	26	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	8	30	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	8	31	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	8	34	/	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	8	37	/	ND	ND	ND	12	ND	ND	ND	ND	ND
19	8	38	/	ND	ND	ND	ND	ND	ND	ND	ND	ND



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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)							
20	8	39	/	ND	ND	ND	ND	ND	ND	ND	ND
21	8	40	/	ND	ND	ND	ND	ND	ND	ND	ND
22	8	42	/	ND	ND	ND	ND	ND	ND	ND	ND
23	8	43	/	ND	ND	ND	ND	ND	ND	ND	ND
24	8	50	/	ND	ND	ND	ND	ND	ND	ND	ND
25	8	51	/	ND	ND	ND	ND	ND	ND	ND	ND
26	8	52	/	ND	ND	ND	ND	ND	ND	ND	ND
27	8	53	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Light brown hardboard
2. Dark grey plastic (PP) (Wheel)
3. Blue plastic (PP) (Wheel)
4. Dark orange plastic (ABS) (Bead)
5. Green plastic (ABS) (Bead)
6. Dark blue plastic (ABS) (Bead)
7. Dark green felt
8. Yellow-green felt
9. Red woven cord
10. Bright dark blue plastic (ABS) (Holder, track)
11. Black soft plastic (Base)
12. Dark red plastic (ABS) (Xylophone, base)
13. Brown plastic (ABS) (Monkey)
14. Dull green plastic (ABS) (Base)
15. Black plastic (Connector)
16. Bright red plastic (PP) (Wheel)
17. Cream polywood (Leg)



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Specimen Description:

18. Brown Hardboard
19. Yellow plastic (ABS) (Bead, track, holder, train)
20. Black plastic (ABS) (Buckle)
21. Yellow plastic (PP) (Wheel)
22. Red plastic (ABS) (Bead, track, holder, bead)
23. Green plastic (Wheel) (PP)
24. Dark cream plastic (PC) (Buckle)
25. Transparent plastic (Shade)
26. Transparent plastic (Mirror)
27. Cream-white plastic (Holder)

- 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.17 & No.24 is(are) extracted from report No. T52210251514TY

Result(s) of specimen No.18 is(are) extracted from report No. T52110280192TY

Result(s) of specimen No.19 - No.21 & No.23 is(are) extracted from report No. T52210262151TY

Result(s) of specimen No.22 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	7	Pass	Pass	Pass
Impact test (16 CFR 1500.52b)	7	Pass	Pass	Pass
Bite test (16 CFR 1500.52c & 53c)	7	N/A	N/A	N/A
Flexure test (16 CFR 1500.53d)	1	Pass	Pass	Pass
Torque test (16 CFR 1500.53e)	7	Pass	Pass	Pass
Tension test (16 CFR 1500.52f)	7	Pass	Pass	Pass
Compression test (16 CFR 1500.53g)	7	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>
E3823 RAILWAY PLAY TABLE,	0.03
E3807 JUNGLE JOURNEY TRAIN,	
E3824,E3801 JUNGLE ADVENTURE RAILWAY TABLE,	
E3821 NUTTY SQUIRREL RAILWAY,	
E3808 WHISTLING PARROT ENGINE,	
E3822 SENSORY RAILWAY,	
E3825 MUSIC AND MONKEYS RAILWAY	

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. Multi-color coating on wood (Board, accessory) + White coating on wood (Board, accessory) + Transparent lacquer w/ light sky-blue coating on wood (Board, accessory, button)	6	1	ND
2. White coating on metal (Leg) + Light blue coating on metal (Rod)	6	2	ND
3. Yellow coating on metal (Rod, key) + Orange coating on metal (Key)	6	3	ND
4. Green coating on metal (Key) + Pale blue coating on metal (Key) + Blue coating on metal (Key)	6	4	ND
5. Transparent lacquer w/ red coating on wood (Logo, board, bead, train, track, block) w/ Pale red (Button bead), dark red (Bead), light blue (Bead, train), black (Bead, train, lettering), brown, dull yellow (Train, button) coating on wood	6	5	ND
6. Transparent lacquer w/ yellow-green coating (Ball, button) w/ Dull red, dull dark red, apricot coating on wood (Ball)	6	6	ND
7. Transparent lacquer w/ blue coating on wood (Train) w/ Red coating on plastic (Train) w/ White, grey-black coating on plastic (Train, monkey) w/ Light brown coating on plastic (Monkey) w/ Dark green coating on plastic (Base)	6	7	ND
8. Dull dark green coating on wood (Block) + Dark green coating on wood (Block, base) + Transparent lacquer w/ green coating on wood (Bead, train, block, edge, ball, button, track)	6	8	ND
9. Transparent lacquer coating on wood + Light yellow coating on wood (Bead, button, track) w/ white coating on woven (Box)	6	9	ND
10. Transparent lacquer w/ orange coating on wood (Train, bead, button) + Transparent lacquer w/ dark blue coating on wood (Train, bead, button, track)	6	10	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
 - P2222400113 NBCN 04/2022
 - P1922401420 NBCN 11/2019
 - P2122402616 NBCN 10/2021
 - P2122402395 NBCN 09/2021
 - P2122402944 NBCN 12/2021
 - P2122401709 NBCN 07/2021
 - P1822400491 NBCN CARB P2 0518
- 3) Date:
 - P2222400113 NBCN 04/2022
 - P1922401420 NBCN 11/2019
 - P2122402616 NBCN 10/2021
 - P2122402395 NBCN 09/2021
 - P2122402944 NBCN 12/2021
 - P2122401709 NBCN 07/2021
 - P1822400491 NBCN CARB P2 0518
- 4) Cohort information:
 - P2222400113 NBCN 04/2022
 - P1922401420 NBCN 11/2019
 - P2122402616 NBCN 10/2021
 - P2122402395 NBCN 09/2021
 - P2122402944 NBCN 12/2021
 - P2122401709 NBCN 07/2021
 - P1822400491 NBCN CARB P2 0518



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- Tracking label found on the product:

- 1) Name: Hape
- 2) Location:
 - P2222400113 NBCN 04/2022
 - P1922401420 NBCN 11/2019
 - P2122402616 NBCN 10/2021
 - P2122402395 NBCN 09/2021
 - P2122402944 NBCN 12/2021
 - P2122401709 NBCN 07/2021
 - P1822400491 NBCN CARB P2 0518
- 3) Date:
 - P2222400113 NBCN 04/2022
 - P1922401420 NBCN 11/2019
 - P2122402616 NBCN 10/2021
 - P2122402395 NBCN 09/2021
 - P2122402944 NBCN 12/2021
 - P2122401709 NBCN 07/2021
 - P1822400491 NBCN CARB P2 0518
- 4) Cohort information:
 - P2222400113 NBCN 04/2022
 - P1922401420 NBCN 11/2019
 - P2122402616 NBCN 10/2021
 - P2122402395 NBCN 09/2021
 - P2122402944 NBCN 12/2021
 - P2122401709 NBCN 07/2021
 - P1822400491 NBCN CARB P2 0518

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. Multi-color coating on wood (Board, accessory) + White coating on wood (Board, accessory) + Transparent lacquer w/ light sky-blue coating on wood (Board, accessory, button)	7	1	ND
2. White coating on metal (Leg) + Light blue coating on metal (Rod)	7	2	ND
3. Yellow coating on metal (Rod, key) + Orange coating on metal (Key)	7	3	ND
4. Green coating on metal (Key) + Pale blue coating on metal (Key) + Blue coating on metal (Key)	7	4	ND
5. Transparent lacquer w/ red coating on wood (Logo, board, bead, train, track, block) w/ Pale red (Button bead), dark red (Bead), light blue (Bead, train), black (Bead, train, lettering), brown, dull yellow (Train, button) coating on wood	7	5	ND
6. Transparent lacquer w/ yellow-green coating (Ball, button) w/ Dull red, dull dark red, apricot coating on wood (Ball)	7	6	ND
7. Transparent lacquer w/ blue coating on wood (Train) w/ Red coating on plastic (Train) w/ White, grey-black coating on plastic (Train, monkey) w/ Light brown coating on plastic (Monkey) w/ Dark green coating on plastic (Base)	7	7	ND
8. Dull dark green coating on wood (Block) + Dark green coating on wood (Block, base) + Transparent lacquer w/ green coating on wood (Bead, train, block, edge, ball, button, track)	7	8	ND
9. Transparent lacquer coating on wood + Light yellow coating on wood (Bead, button, track) w/ white coating on woven (Box)	7	9	ND
10. Transparent lacquer w/ orange coating on wood (Train, bead, button) + Transparent lacquer w/ dark blue coating on wood (Train, bead, button, track)	7	10	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 cap	2	1	ND
2. Bright silvery metal big rivet w/ logo	2	2	ND
3. Bright silvery metal small rivet w/ logo	2	3	ND
4. Iridescent metal nut	2	4	ND
5. Iridescent metal small nut	2	5	ND
6. Light silvery metal big head screw	2	6	ND
7. Silvery metal board (Leg)	2	7	ND
8. Dull silvery metal bolt	2	8	ND
9. Silvery metal screw	2	9	ND
10. Silvery metal rod	2	10	ND
11. Silvery metal holder	2	11	ND
12. Silvery metal big head rivet	2	12	ND
13. Bright silvery metal bolt	2	13	17
14. Shiny silvery metal flat screw	2	14	ND
15. Dull silvery metal flat screw	2	15	ND
16. Bright silvery metal bell	2	16	ND
17. Bright silvery metal big screw	2	17	19
18. Silvery metal huge head bolt	2	18	ND
19. Silvery metal flat bolt	2	19	ND
20. Bright silvery metal flat screw (Bottom)	2	20	ND
21. Silvery metal key	2	21	ND
22. Light brown hardboard + Cream polywood (Leg) + Brown Hardboard	4	1	ND
23. Dark grey plastic (PP) (Wheel) + Green plastic (Wheel) (PP) + Dark cream plastic (PC) (Buckle)	4	2	ND
24. Blue plastic (PP) (Wheel) + Bright dark blue plastic (ABS) (Holder, track) + Dark red plastic (ABS) (Xylophone, base)	4	3	ND



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Test Item(s)	Lead (Pb)		
Permissible Limit ** (ppm)	100		
Client's Limit (ppm)	40		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
25. Dark orange plastic (ABS) (Bead) + Green plastic (ABS) (Bead) + Dark blue plastic (ABS) (Bead)	4	4	ND
26. Black soft plastic (Base) + Brown plastic (ABS) (Monkey) + Dull green plastic (ABS) (Base)	4	5	ND
27. Black plastic (Connector) + Bright red plastic (PP) (Wheel) + Yellow plastic (ABS) (Bead, track, holder, train)	4	6	ND
28. Black plastic (ABS) (Buckle) + Yellow plastic (PP) (Wheel) + Red plastic (ABS) (Bead, track, holder, bead)	4	7	ND
29. Transparent plastic (Shade)	4	8	ND
30. Transparent plastic (Mirror) + Cream-white plastic (Holder)	4	9	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)

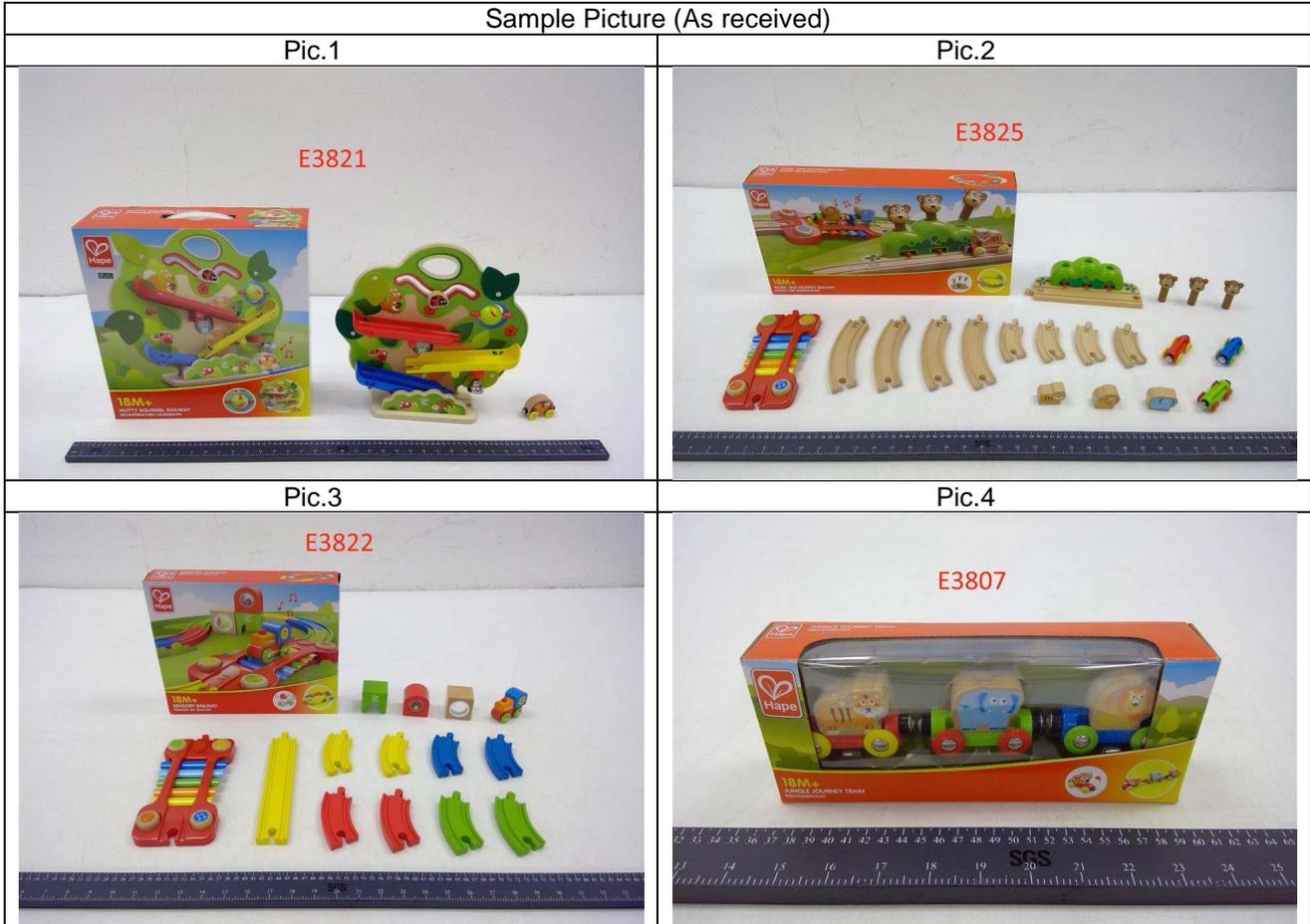
- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm

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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 Picture (As received)



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