

## Test Report

No.: SHHL2304018311TY

Date: JUN. 08, 2023

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

Sample Description : SEA&RAIL CARGO TRANSPORT SET/ LIFT & LOAD  
HARBOUR SET/ CARGO SHIP & CRANE/ RAILWAY BUCKET-  
HARBOR-SET

Sample Quantity : 20 SETS

Style / Item No. : E3790/ E3791/ E3792/ E8769

Country of Origin : CHINA

Country of Destination : GLOBAL

Labeled Age Grading : 3Y+

Requested Age Grading : 3Y+

Client Reference Information : E3790A/ E3791A/ E3792A/ E8769A,E8769AE  
\*\*\*\*\*

Source of Sample : SENT BY CLIENT.

Age Group Assessed as Per Age Guideline : 3 YEARS +

Age Group Applied in Testing : 3 YEARS +

Sample Receiving Date : APR. 23, 2023

Further Information Date : MAY. 24, 2023

Testing Period : APR. 23, 2023 TO MAY. 26, 2023

Test Requested	Result
AS/NZS ISO 8124.1: 2019+A1: 2020+A2: 2020 – Safety of toys – Part 1: Safety aspects related to mechanical and physical properties	Pass
AS/NZS 8124.2: 2016 – Safety of toys – Part 2: Flammability	Pass
AS/NZS ISO 8124.3:2021-Migration of Certain Elements	Pass
COMMONWEALTH OF AUSTRALIA Trade Practices Act 1974, Consumer Protection Notice No. 1 of 2009-CONSUMER PRODUCT SAFETY STANDARD FOR LEAD AND CERTAIN ELEMENTS IN CHILDREN'S TOYS	Pass
For compliance with the Consumer Goods (Products Containing Button/Coin Batteries) Safety Standard 2020	Pass
For compliance with the Consumer Goods (Products Containing Button/Coin Batteries) Information Standard 2020	Pass
Consumer Goods (Toys Containing Magnets) Safety Standards 2020	Pass

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

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jessie Zhou



Jessie Zhou  
Authorized Signatory



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**Results:**
**AS/NZS ISO 8124.1: 2019+A1: 2020+A2: 2020 – SAFETY OF TOYS – PART 1: SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES**

As specified in AS/NZS ISO 8124.1: 2019+A1: 2020+A2: 2020 – Safety of toys – Part 1: Safety aspects related to mechanical and physical properties

Clauses relevant to the item:

<b>Clause</b>	<b>Description</b>	<b>Result</b>
4	Requirements	
4.1	Normal use	<u>Pass</u>
4.2	Reasonably foreseeable abuse	<u>Pass</u>
4.3	Material	
4.3.1	Material quality (Visual Examination)	<u>Pass</u>
4.4	Small Parts	
4.4.2	For children 36 months and over but under 72 months	<u>Pass</u>
4.6	Edges	<u>Pass</u>
4.7	Points	<u>Pass</u>
4.8	Projections	<u>Pass</u>
4.10	Plastic film or plastic bags in packaging and in toys	<u>Pass</u>
4.12	Folding mechanism	
4.12.3	Hinge-line clearance (Not applicable to products with a hinged part that has a mass less than 250g.)	<u>N/A</u>
4.29	Acoustic requirements	<u>Pass</u>
4.31	Magnets and magnetic components	<u>Pass</u>
4.36	Assembly	<u>Pass</u>

**Annex B Safety-labeling guidelines and manufacturer's markings**
**B.2 Safety-labeling guidelines**
**B.2.1 Good practice for visibility and legibility**
See Remark

Remark: The standard has introduced good practice by addressing the following aspects:

- Emphasising the warning
- Contrast, background and colours
- Reflecting surfaces and obscuring material
- Font type
- Font and symbol size
- Logical direction of text

**B.2.2 Age grading**
Pass


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Testing Center Harbin

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B.2.3	Small toys and toys containing small parts	Pass
B.2.8	Toys in contact with food	Pass
B.3	Instructional literature	
B.3.1	Information and Instructions	Pass
B.3.6	Toys intended to be assembled by an adult	Pass
B.4	Manufacturer's Markings	Pass

N/A = Not Applicable

### AS/NZS 8124.2:2016 – SAFETY OF TOYS – PART 2: FLAMMABILITY

AS SPECIFIED IN AS/NZS 8124.2:2016 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

Clause	Description	Result
4.1	General Requirements	Pass

N.B. : - Only applicable clauses were shown.

#### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA23-0052298-0001.C001	Green coating on wood
SN2	A2	SHA23-0052298-0001.C002	Yellow coating on wood
SN3	A3	SHA23-0052298-0001.C003	Grey coating on wood
SN4	A4	SHA23-0052298-0001.C004	Colorful coating
SN5	A5	SHA23-0052298-0001.C005	Black coating on wood
SN6	A6	SHA23-0052298-0001.C006	White coating
SN7	A7	SHA23-0052298-0001.C007	Blue coating
SN8	A8	SHA23-0052298-0001.C008	Light blue coating
SN9	A9	SHA23-0052298-0001.C009	Red coating
SN10	A10	SHA23-0052298-0001.C010	Silvery coating
SN11	A11	SHA23-0052298-0001.C011	Cream color coating
SN12	A12	SHA23-0052298-0001.C012	Dark blue coating on wood
SN13	A13	SHA23-0052298-0001.C013	Dark green coating on tree
SN14	A14	SHA23-0052298-0001.C014	Brown coating
SN15	A15	SHA23-0052298-0001.C015	Blue-green coating
SN16	A16	SHA23-0052298-0001.C016	Blue ABS
SN17	A17	SHA23-0052298-0001.C017	Black pp wheel
SN18	A18	SHA23-0052298-0001.C018	Dark grey ABS
SN19	A19	SHA23-0052298-0001.C019	Red pp
SN20	A20	SHA23-0052298-0001.C020	Translucent grey ABS
SN21	A21	SHA23-0052298-0001.C021	Orange ABS
SN22	A22	SHA23-0052298-0001.C022	Red ABS
SN23	A23	SHA23-0052298-0001.C023	White ABS
SN24	A24	SHA23-0052298-0001.C024	Translucent plastic
SN25	A25	SHA23-0052298-0001.C025	Grey ABS
SN26	A26	SHA23-0052298-0001.C026	Grey PP
SN27	A27	SHA23-0052298-0001.C027	Yellow ABS



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SN ID	Sample No.	SGS Sample ID	Description
SN28	A28	SHA23-0052298-0001.C028	Blue PVC
SN29	A29	SHA23-0052298-0001.C029	Orange PVC
SN30	A30	SHA23-0052298-0001.C030	flesh PVC
SN31	A31	SHA23-0052298-0001.C031	Brown HIPS
SN32	A32	SHA23-0052298-0001.C032	White plastic
SN33	A33	SHA23-0052298-0001.C033	Light brown plastic
SN34	A34	SHA23-0052298-0001.C034	Black pp
SN35	A35	SHA23-0052298-0001.C035	Red HDPE
SN36	A36	SHA23-0052298-0001.C036	Grey HIPS
SN37	A37	SHA23-0052298-0001.C037	Light green ABS
SN38	A38	SHA23-0052298-0001.C038	Light blue ABS
SN39	A39	SHA23-0052298-0001.C039	Colorful card paper
SN40	A40	SHA23-0052298-0001.C040	White cord
SN41	A41	SHA23-0052298-0001.C041	Natural color MDF
SN42	A42	SHA23-0052298-0001.C042	Natural color solid wood

### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

### AS/NZS ISO 8124.3:2021-Migration of Certain Elements

Test Method: With reference to AS/NZS ISO 8124.3:2021, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A7*	A8	A9
Soluble Lead(Pb)	90	mg/kg	5	-	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	-	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	-	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	-	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	-	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	-	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	-	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	-	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A10*	A11*	A12
Soluble Lead(Pb)	90	mg/kg	5	-	-	ND
Soluble Antimony(Sb)	60	mg/kg	5	-	-	ND
Soluble Arsenic(As)	25	mg/kg	2.5	-	-	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	-	-	ND
Soluble Cadmium(Cd)	75	mg/kg	5	-	-	ND
Soluble Chromium(Cr)	60	mg/kg	5	-	-	ND
Soluble Mercury(Hg)	60	mg/kg	5	-	-	ND
Soluble Selenium(Se)	500	mg/kg	10	-	-	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A13	A14*	A15*
Soluble Lead(Pb)	90	mg/kg	5	ND	-	-
Soluble Antimony(Sb)	60	mg/kg	5	ND	-	-
Soluble Arsenic(As)	25	mg/kg	2.5	ND	-	-
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	-	-
Soluble Cadmium(Cd)	75	mg/kg	5	ND	-	-
Soluble Chromium(Cr)	60	mg/kg	5	ND	-	-
Soluble Mercury(Hg)	60	mg/kg	5	ND	-	-
Soluble Selenium(Se)	500	mg/kg	10	ND	-	-
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A28	A29	A30
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A31	A32	A33
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A34	A35	A36
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A37	A38	A39
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	10
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A40	A41	A42
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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### Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) \*As received, the test portion is less than 10 mg, therefore such components were not tested for migration of certain elements, as specified in the AS/NZS ISO 8124.3:2021 Clause 8 - Selection of test portions.
- (3) Mass of trace amount of sample A1 is 27.4mg, sample A2 is 26.6mg, sample A3 is 87.6mg, sample A4 is 21.4mg, sample A5 is 41mg, sample A6 is 56.9mg, sample A8 is 51.1mg, sample A9 is 62.3mg, sample A12 is 40.7mg, sample A13 is 30.4mg, sample A40 is 80.8mg.

### **COMMONWEALTH OF AUSTRALIA Trade Practices Act 1974, Consumer Protection Notice No. 1 of 2009- CONSUMER PRODUCT SAFETY STANDARD FOR LEAD AND CERTAIN ELEMENTS IN CHILDREN'S TOYS**

Test Method: With reference to AS/NZS ISO 8124.3:2003, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A7*	A8	A9
Soluble Lead(Pb)	90	mg/kg	5	-	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	-	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	-	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	-	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	-	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	-	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A7*	A8	A9
Soluble Mercury(Hg)	60	mg/kg	5	-	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	-	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A10*	A11*	A12
Soluble Lead(Pb)	90	mg/kg	5	-	-	ND
Soluble Antimony(Sb)	60	mg/kg	5	-	-	ND
Soluble Arsenic(As)	25	mg/kg	2.5	-	-	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	-	-	ND
Soluble Cadmium(Cd)	75	mg/kg	5	-	-	ND
Soluble Chromium(Cr)	60	mg/kg	5	-	-	ND
Soluble Mercury(Hg)	60	mg/kg	5	-	-	ND
Soluble Selenium(Se)	500	mg/kg	10	-	-	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A13	A14*	A15*
Soluble Lead(Pb)	90	mg/kg	5	ND	-	-
Soluble Antimony(Sb)	60	mg/kg	5	ND	-	-
Soluble Arsenic(As)	25	mg/kg	2.5	ND	-	-
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	-	-
Soluble Cadmium(Cd)	75	mg/kg	5	ND	-	-
Soluble Chromium(Cr)	60	mg/kg	5	ND	-	-
Soluble Mercury(Hg)	60	mg/kg	5	ND	-	-
Soluble Selenium(Se)	500	mg/kg	10	ND	-	-
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A28	A29	A30
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A31	A32	A33
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND



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Test Item(s) Conclusion	Limit	Unit(s)	MDL	A31 Pass	A32 Pass	A33 Pass
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Test Item(s)	Limit	Unit(s)	MDL	A34	A35	A36
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A37	A38	A39
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	10
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A40	A41	A42
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

### Notes:

- (1) Results of soluble elements shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample A1 is 27.4mg, sample A2 is 26.6mg, sample A3 is 87.6mg, sample A4 is 21.4mg, sample A5 is 41mg, sample A6 is 56.9mg, sample A8 is 51.1mg, sample A9 is 62.3mg, sample A12 is 40.7mg, sample A13 is 30.4mg, sample A40 is 80.8mg.
- (3) \*As received, the test portion are less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the AS/NZS ISO 8124.3:2003 Clause 7-selection of test portions.



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**Remark:**

The test results A2 are taken from report SHA23-0038742-0001.C003(A3)  
The test results A18 are taken from report SHA23-0022963-0001.C008(A8)  
The test results A19 are taken from report SHA23-0038742-0001.C014(A14)  
The test results A35 are taken from report SHA23-0022963-0001.C006(A6)  
The test results A41 are taken from report SHA23-0036801-0001.C015(A15)  
The test results A42 are taken from report SHA23-0022963-0001.C009(A9)

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.

**Consumer Goods (Products Containing Button/Coin Batteries) Safety Standard 2020:**

<b>Section</b>	<b>Description</b>	<b>Result</b>
Part 2 - Requirements		
Division 1 - Introduction		
7	Requirements to be complied with on and after application day	Pass
Division 2 - Details of requirements		
8	Button/coin batteries must not release during reasonably foreseeable use or misuse conditions	Pass
9	Compartment holding button/coin batteries must be resistant to being opened by young children	Pass
10	Fasteners for doors or covers to compartments holding button/coin batteries must be captive etc.	N/A
11	Secureness of consumer goods with non-replaceable button/coin battery accessible by consumers must be tested	N/A
Division 3 - Product-specific standards		
12	Satisfying section 8 with product-specific standards	Pass
13	Satisfying section 9 with Audio/Video and Electronic Apparatus Standards	N/A
14	Satisfying section 9 with Luminaires Standard	N/A
15	Satisfying section 9 with Safety of Toys Standards	Pass
Division 4—Non-product-specific standards		
16	Satisfying section 8 with non-product-specific standards	N/A
17	Satisfying section 9 with non-product-specific standards	N/A

N/A = Not Applicable



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**Consumer Goods (Products Containing Button/Coin Batteries) Information Standard 2020:**

<b>Section</b>	<b>Description</b>	<b>Result</b>
Part 2 - Requirements		
7	Requirements to be complied with on and after application day	Pass
8	Consumer goods with button/coin batteries—general requirement for warning	Pass
10	Warnings must comply with size, legibility and durability standards	Pass

**Consumer Goods (Toys Containing Magnets) Safety Standards 2020**

TEST REQUESTED : For compliance with the Consumer Goods (Toys Containing Magnets) Safety Standards 2020

TEST METHOD : With reference to clause 4.1 & 4.31 of AS/NZS ISO 8124.1:2019 with following modification:  
 (a) clause 4.1, as modified by omitting the last 2 sentences of the clause;  
 (b) clause 4.31, as affected by the modifications of the subclauses referred to in:  
 Subclauses 5.24.2, 5.24.5, 5.24.6.1, 5.24.6.2 and 5.24.7 of the International Standard are modified by omitting the last sentence of each subclause; and  
 Subclause 5.24.3 of the International Standard is modified by omitting  
 “before continuing to determine whether the toy continues to conform to the relevant requirements of Clause 4 (requirements)”.

TEST METHOD : With reference to clause 4.23 of EN 71-1:2014+A1:2018.

TEST RESULT : After performing the test, the sample comply with the requested test requirements

<b>Section</b>	<b>Description</b>	<b>Result</b>
Section 9	Australian/New Zealand Standard	Pass
4.1	Normal Use	Pass
4.31	Magnets and magnetic components	Pass
4.31.1	Magnetic/electrical experimental sets intended for children 8 years and over	N/A
4.31.2	All other toys with magnets and magnetic components	Pass



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### Remark:

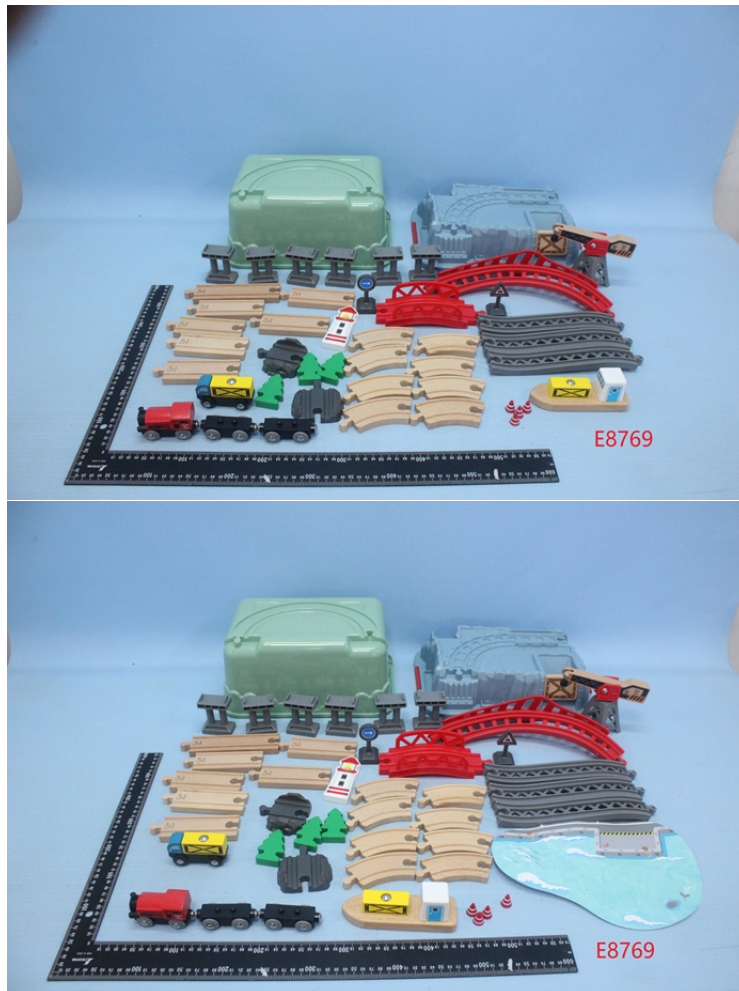
1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
2. The declaration of conformity is based on acceptance limits chosen based on simple acceptance ( $w = 0$ ,  $AL = TL$ ).

Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

Failed - One or more measured values were observed out of tolerance at the points tested.

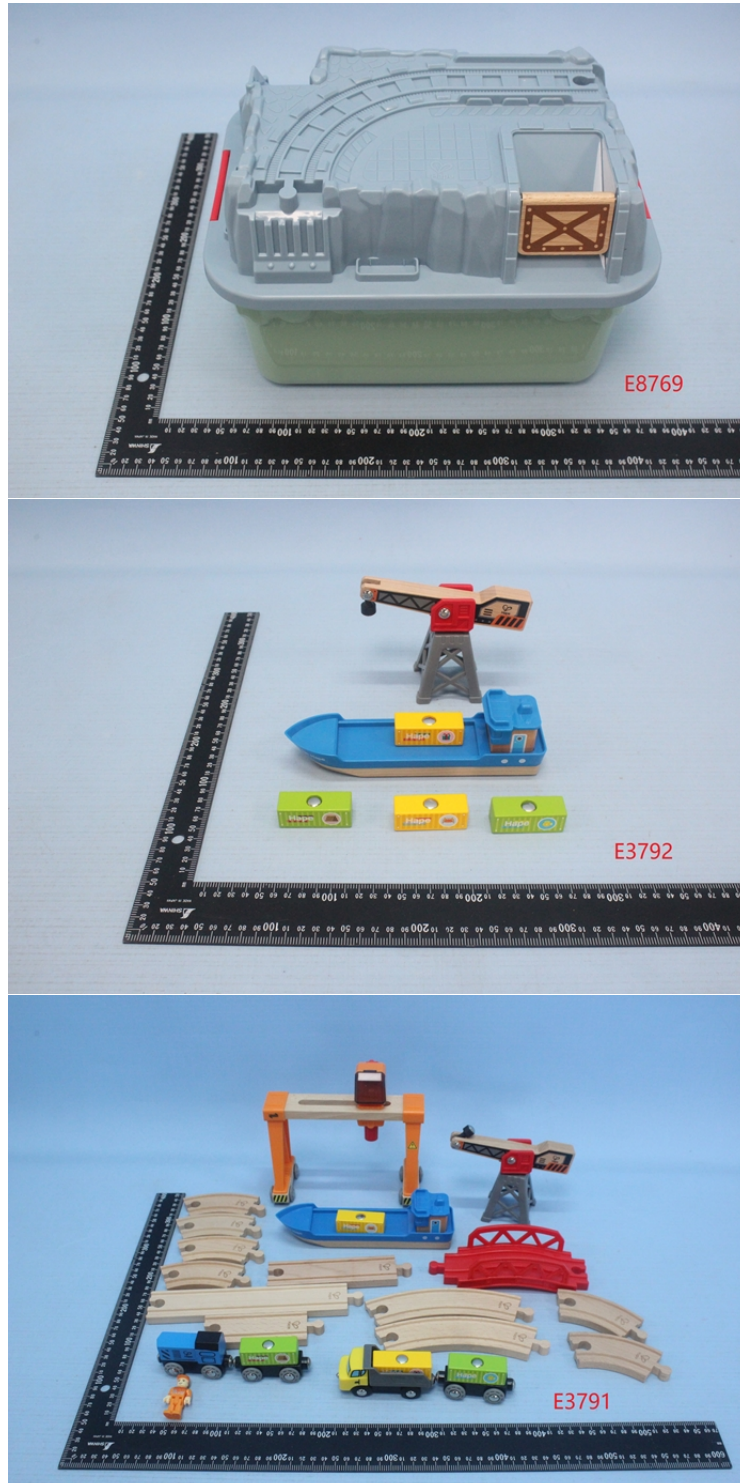
### Sample Photo:



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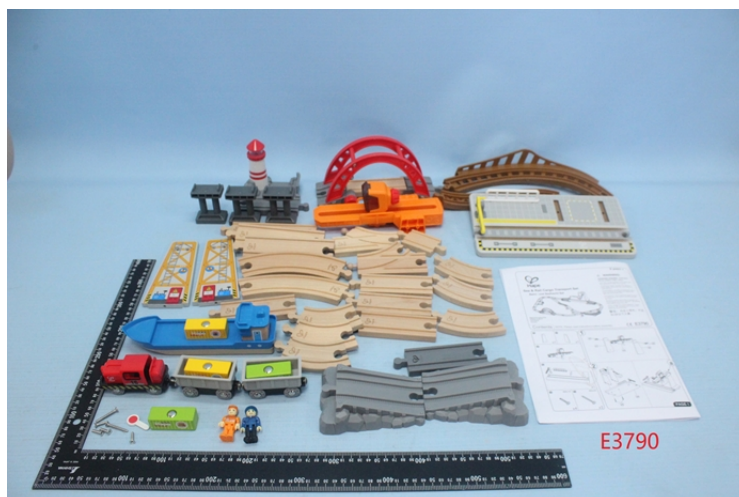
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\*\*\* End of Report \*\*\*



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