



Test Report

No. SHHL1811063520TY

Date: NOV. 19, 2018

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

The following samples were submitted and identified by/on behalf of the client as:
BATTERY POWERED ENGINE NO.1
RECORD LISTEN & LIGHT RAILWAY STATION
ADVANCED TRACK-BUILDING KIT

Sample Quantity : 12 SETS
Style / Item No. : E3703, E3703A
E3702, E3702B
E3733, E3733A
Country of Destination : GLOBAL
Labeled Age Grading : 3+
Requested Age Grading : FOR ITEM E3703, E3703A: 18M+
OTHERS: 3Y+
Age Group Assessed As Per Age Guideline : FOR ITEM E3703, E3703A: 18+MONTHS
OTHERS: 3+ YEARS
Age Group Applied in Testing : FOR ITEM E3703, E3703A: 18+MONTHS
OTHERS: 3+ YEARS
Sample Receiving Date : NOV. 13, 2018
Further Information Date : NOV. 16, 2018
Testing Period : NOV. 13, 2018 TO NOV. 19, 2018

<u>Test Requested</u>	<u>Result</u>
AS/NZS 8124.1:2016 – Safety of toys – Part 1: Safety aspects related to mechanical and physical properties	<u>Pass</u>
AS/NZS 8124.2:2016 – Safety of toys – Part 2: Flammability	<u>Pass</u>
AS/NZS 8124.3:2012+A1:2016- Migration of Certain Elements	<u>Pass</u>

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

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Member of the SGS Group (SGS SA)

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




Wallace Lui
Senior Technical Manager, Asia



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center Harbin

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Results:
AS/NZS 8124.1:2016 – SAFETY OF TOYS – PART 1: SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN AS/NZS 8124.1:2016 – SAFETY OF TOYS – PART 1: SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

Clause	Description	Result
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	
	4.4.1 For children under 36 months	<u>Pass</u>
4.6	Edges	<u>Pass</u>
4.7	Points	<u>Pass</u>
4.13	Holes, clearances and accessibility of mechanisms	
4.29	Acoustic requirements	<u>Pass</u>
4.31	Magnets and magnetic components (For item E3703, E3703A)	<u>Pass</u>

Annex B Safety-labeling guidelines and manufacturer's markings

B.2	Safety-labeling guidelines	
B.2.2	Age grading	<u>Pass</u>
B.3	Instructional literature	
B.3.1	Information and Instructions (For item E3703, E3703A; E3702, E3702B)	<u>Pass</u>
B.4	Manufacturer's Markings	<u>Pass</u>

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	<u>Pass</u>

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



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Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA18-253664.001	Black coating
SN2	SHA18-253664.002	White coating
SN3	SHA18-253664.003	Yellow coating
SN4	SHA18-253664.004	Grey coating
SN5	SHA18-253664.005	Red coating
SN6	SHA18-253664.006	Dk. Blue coating(On car)
SN7	SHA18-253664.007	Natural colored solidwood
SN8	SHA18-253664.008	Red ABS car body&platfond
SN9	SHA18-253664.009	Transparent plastic lamp
SN10	SHA18-253664.010	Grey ABS wheel
SN11	SHA18-253664.011	Black TPE(Train drive wheel rubber ring)
SN12	SHA18-253664.012	Black ABS switch
SN13	SHA18-253664.013	Black zinc alloy baking paint(Under car)
SN14	SHA18-253664.014	Red pp platfond (Big station)
SN15	SHA18-253664.015	Cream PE
SN16	SHA18-253664.016	Yellow ABS

Remarks :

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

AS/NZS 8124.3:2012+A1:2016- Migration of Certain Elements

Test Method : With reference to AS/NZS 8124.3:2012+A1:2016, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Lead (Pb)	90	mg/kg	5	-	-	-
Soluble Antimony (Sb)	60	mg/kg	5	-	-	-
Soluble Arsenic (As)	25	mg/kg	2.5	-	-	-
Soluble Barium (Ba)	1000	mg/kg	10	-	-	-
Soluble Cadmium (Cd)	75	mg/kg	5	-	-	-
Soluble Chromium (Cr)	60	mg/kg	5	-	-	-
Soluble Mercury (Hg)	60	mg/kg	5	-	-	-
Soluble Selenium (Se)	500	mg/kg	10	-	-	-

Test Item(s)	Limit	Unit	MDL	004	005	006
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	-	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	-



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Test Item(s)	Limit	Unit	MDL	007	008	009
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	12	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

Test Item(s)	Limit	Unit	MDL	010	011	012
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	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

Test Item(s)	Limit	Unit	MDL	013	014	015
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	-	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

Test Item(s)	Limit	Unit	MDL	016
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	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

Notes :

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample 005 is 28.6mg.
- (3) As received, the test portion of 001,002,003,004,006,013 are less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the AS/NZS ISO 8124.3:2012+AMD.1:2016 Clause 7-selection of test portions.



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