



Test Report

No.: SHHL1901002754TY

Date: JAN. 23, 2019

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

ADVENTURE ROCKET
MEDIEVAL CASTLE

Sample Quantity : 10 SETS
 Style / Item No. : 760025/760026
 Country of Destination : GLOBAL
 Labeled Age Grading : 30M+
 Requested Age Grading : 30M+
 Age Group Assessed as Per Age Guideline : 18+ MONTHS
 Age Group Applied in Testing : 18+ MONTHS
 Sample Receiving Date : JAN. 15, 2019
 Resubmitted Sample Date : JAN. 17, 2019
 Further Information Date : JAN. 17, 2019
 Testing Period : JAN. 15, 2019 TO JAN. 23, 2019

<u>Test Requested</u>	<u>Result</u>
ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	<u>Pass</u>
Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	<u>Pass</u>
Lead (Pb)(Non-Metal)	<u>Pass</u>
Part 1303, Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. requirement-Lead	<u>Pass</u>
Lead(Pb)(Metal)	<u>Pass</u>
CPSIA section 101(a)(2) - Lead in accessible substrate materials(Metal)	<u>Pass</u>
CPSIA section 101(a)(2) - Lead in accessible substrate materials(Non-Metal)	<u>Pass</u>

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

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



Wallace Lui
Senior Technical Manager, Asia



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Result:

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 Detail of test result)</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
	4.3.5.1 Heavy Elements in Paint/Similar Surface Coating Materials	<u>Not Applicable</u>
	4.3.5.2 Heavy Metal in Substrate Materials	<u>Pass (See Detail of test result)</u>
4.6.1	Small Objects	<u>Pass</u>
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.12	Plastic Film	<u>Pass</u>
4.17	Wheels, Tires, and Axles	<u>Pass</u>
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.16	Promotional Materials	<u>Pass</u>
7	Producer's Markings	
7.1	Producer's Markings	<u>Pass</u>
8.5	Normal Use Testing	<u>Pass</u>
8.7	Impact Test	<u>Pass</u>
8.8	Torque Test	<u>Pass</u>
8.9	Tension Test	<u>Pass</u>

** Visual Examination



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Detail of test result:

ASTM F963-17, Clause 4.2 – Flammability Test
Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
Blocks sets	DNI

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.

DNI = Did Not Ignite

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

Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products.

Notes:

Note 1: 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: ZFO235 2402286 0119
- Tracking label found on product: ZFO235 2402286 0119

Note 2: 1) 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.
2) City and State, or administrative state shall be also provided for the source (location) information.



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Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA19-012147.001	White LDPE
SN2	SHA19-012147.002	Black LDPE
SN3	SHA19-012147.003	Blue LDPE
SN4	SHA19-012147.004	Red LDPE
SN5	SHA19-012147.005	Dk.grey LDPE
SN6	SHA19-012147.006	Brown PS hair
SN7	SHA19-012147.007	Pink PS face
SN8	SHA19-012147.008	Black coating on face
SN9	SHA19-012147.009	Colorful paper sticker with adhesive
SN10	SHA19-012147.010	Yellow LDPE
SN11	SHA19-012147.011	Green LDPE
SN12	SHA19-012147.012	Brown LDPE
SN13	SHA19-012147.013	lt.grey LDPE
SN14	SHA19-012147.014	Light brown PS face
SN15	SHA19-012147.015	White LDPE+Black LDPE+Red LDPE
SN16	SHA19-012147.016	Blue LDPE+Dk.grey LDPE+Yellow LDPE
SN17	SHA19-012147.017	Green LDPE+Brown LDPE+ lt.grey LDPE
SN18	SHA19-012147.018	Brown PS hair+Pink PS face with black coating+Light brown PS face
SN19	SHA19-012147.019	Silvery metal stick
SN20	SHA19-012147.020	Black coating on face

Remarks :

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

Lead (Pb)(Non-Metal)

Test Method : With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	009	015	016
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	017	018
Lead (Pb)	40	mg/kg	2	ND	ND
Conclusion				PASS	PASS

Notes :

The maximum permissible limit is quoted from the client requirement.



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Part 1303, Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. requirement-Lead

Test Method : With reference to CPSC Test Method: CPSC-CH-E1003-09.1, analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>020</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS

American Society for Testing and Materials –ASTM F 963-17 –total Lead in Substrate Materials(Non-Metal)

Test Method : With reference to CPSC-CH-E1002-08.3. Analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>	<u>015</u>	<u>016</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>	<u>018</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND

American Society for Testing and Materials –ASTM F 963-17 –total Lead in Substrate Materials(Metal)

Test Method : With reference to CPSC-CH-E1001-08.3, Analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>
Total Lead (Pb)	100	mg/kg	20	ND

Lead(Pb)(Metal)

Test Method : With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>
Lead (Pb)	40	mg/kg	2	ND
Conclusion				PASS

Notes :

The maximum permissible limit is quoted from the client requirement.



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American Society for Testing and Materials –ASTM F 963-17 – soluble Heavy Metal for paint and similar surface-coating materials/ Substrate Materials

Test Method : With reference to ASTM F 963-17 (Clause 8.3), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
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



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Test Item(s)	Limit	Unit	MDL	013	014
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

Notes :

- (1) Results shown are of the adjusted analytical results
- (2) As received, the test portion of samples 008 from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions

CPSIA section 101(a)(2) - Lead in accessible substrate materials(Metal)

Test Method : CPSC Test Method: 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)	Limit	Unit	MDL	019
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

Notes :

Limit applies to a children`s product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

CPSIA section 101(a)(2) - Lead in accessible substrate materials(Non-Metal)

Test Method : CPSC Test Method: CPSC-CH-E1002-08.3 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

Test Item(s)	Limit	Unit	MDL	009	015	016
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)

Test Item(s)	Limit	Unit	MDL	017	018
Lead (Pb)	0.01	%	0.002	ND	ND
Conclusion				PASS	PASS

Notes :

- (1) Limit applies to a children`s product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)



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Remark:

For method of CPSC-CH-E1002-08.3: Composite test has been performed and the result is calculated using the minimum sample weight.

For Others: Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.

Sample Photo:



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