

Date: SEP 26, 2021

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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	:	JUNGLE PEG PUZZLE/ EMERGENCY PEG PUZZLE/ CONSTRUCTION PEG PUZZLE/ FARMYARD PEG PUZZLE FARM ANIMAL PUZZLE & PLAY			
Sample Quantity	:	30 SETS			
Style / Item No.	:	E1405/ E1406/ E1407/ E1408/ E1454			
Country of Origin	:	CHINA			
Country of Destination	:	GLOBAL			
Labeled Age Grading	:	24M+			
Requested Age Grading	:	24M+			
ASIN No.	:	B074N3TBMG/ B071G8B7ZT/ B071G8BP5F/ B072MNJ7Z B071JVBMKS			
Client Reference Information	:	E1405A/ E1406A/ E1407A/ E1408A/ E1454A			
Age Group Assessed as Per Age Guideline	:	12+ MONTHS			
Age Group Applied in Testing	:	12+ MONTHS			
Sample Receiving Date	:	SEP 07, 2021			
Testing Period	:	SEP 07, 2021 TO SEP 26, 2021			
Test Requested			Result		
ASTM F963-17 Standard Consumer Safety S	Зрес	cification for Toy Safety	Pass		
Physical and mechanical tests consisting US CFR 1500.49 and US CPSC 16 CFR 1501	SC 16 CFR 1500.48, US CPSC 16	<u>Pass</u>			
US CPSC 16 CFR 1500.19 – Misbranded tov	N/A				

US CPSC 16 CFR 1500.19 – Misbranded toys and other articles intended for use by children

US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids

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

 Lead (Pb)
 Pass

 Part 1303, Title 16, Code of Federal Regulations, Chapter II – Consumer Products
 Pass

 Safety Commission of U.S.A. requirement-Lead
 Pass



Member of the SGS Group (SGS SA)

Pass



Test ReportNo.: SHHL2109048831TYDate: SEP 26, 2021Page 2 of 17CPSIA section 101(f)-Lead in paint/similar surface coating materialPassCPSIA section 101(a)(2)-Lead in accessible substrate materials (Non-Metal)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 Authorized Signatory



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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>	Description	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	Pass (See Detail of
		<u>test result)</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
	4.3.5.1 Heavy Elements in Paint/Similar Surface Coating Materials	Pass (See Detail of test result)
	4.3.5.2 Heavy Metal in Substrate Materials	Pass (See Detail of test result)
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>
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.16	Promotional Materials	Pass
7	Producer's Markings	
7.1	Producer's Markings	Pass
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	Pass
		 _

** Visual Examination



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Detail of test result:

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

Sample Puzzles sets Burning Rate (inch/sec) 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

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

As received Impact test (16 CFR 1500.51b) Bite test (16 CFR 1500.52c) Flexure test (16 CFR 1500.53d) Torque test (16 CFR 1500.53e) Tension test (16 CFR 1500.53f)	No. of sample tested 5 5 5 5 0 5 5 5 5 5	Sharp point (16 CFR 1500.48) Pass Pass N/A N/A Pass Pass Pass	<u>Sharp edge</u> (<u>16 CFR 1500.49)</u> N/A N/A N/A N/A N/A N/A N/A	<u>Small part</u> (<u>16 CFR 1501)</u> Pass Pass N/A N/A Pass Pass
Compression test (16 CFR 1500.53g)	5	Pass	N/A	Pass

N/A = Not Applicable

US CPSC 16 CFR 1500.19 - MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY **CHILDREN** Not Applicable



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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

Sample Puzzles sets Burning Rate (inch/sec) DNI Page 5 of 17

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

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: E1405: S2184200055 NBCN 06/2021

E1406: S2184200099 NBCN 08/2021 E1407: S2184200100 NBCN 08/2021 E1408: S2184200101 NBCN 08/2021 E1454: P2122400476 NBCN 05/2021

- Tracking label found on the Bottom of the product: E1405: S2184200055 NBCN 06/2021

E1406: S2184200099 NBCN 08/2021 E1407: S2184200100 NBCN 08/2021 E1408: S2184200101 NBCN 08/2021 E1454: P2122400476 NBCN 05/2021

- 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	SHA21-205733.001	Natural color plywood
SN2	SHA21-205733.002	Cream PC handle
SN3	SHA21-205733.003	Colorful coating on plywood (E1405)
SN4	SHA21-205733.004	Colorful coating on plywood (E1406)
SN5	SHA21-205733.005	Colorful coating on plywood (E1407)
SN6	SHA21-205733.006	Colorful coating on plywood (E1408)
SN7	SHA21-205733.007	Colorful coating on plywood (E1454)

Remarks :

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

American Society for Testing and Materials - ASTM F 963-17 - total Lead in Substrate Materials

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>	MDL	<u>002</u>
Total Lead (Pb)	100	mg/kg	20	ND

Lead (Pb)

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>	<u>004</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>005</u>	<u>006</u>	
Lead (Pb)	40	mg/kg	2	ND	ND	
Conclusion				PASS	PASS	



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Notes :

The maximum permissible limit is quoted from the client requirement.

<u>American Society for Testing and Materials – ASTM F 963-17– total Lead in paint and similar</u> <u>surface-coating materials</u>

Test Method : With reference to 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>003</u>	<u>004</u>	<u>005</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
<u>Test Item(s)</u> Total Lead (Pb)	<u>Limit</u> 90	<u>Unit</u> mg/kg	<u>MDL</u> 20	<u>006</u> ND		

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.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>003</u>	<u>004</u>	<u>005</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>006</u>		
Lead (Pb)	0.009	%	0.002	ND		



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

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<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
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<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
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>007</u>		
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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Notes :

(1) Results shown are of the adjusted analytical results.

(2) Mass of trace amount of sample 002 is 40.1mg, sample 003 is 39.8mg, sample 004 is 41.6mg, sample 005 is 51.9mg, sample 006 is 39.7mg, sample 007 is 48.3mg.

CPSIA section 101(f)-Lead in paint/similar surface coating material

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>004</u>	<u>005</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS
T (1) ()	,	11				
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>006</u>		
Lead (Pb)	<u>Limit</u> 0.009	<u>Unit</u> %	0.002	006 ND		

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

Test Method : With reference to CPSC-CH-E1002-08.3 ,analysis was performed by AAS or ICP-OES.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>002</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

Remark:

The test results 001 are taken from report SHA21-138533.002. The test results 002 are taken from report SHA21-205049.013.

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- The declaration of conformity is based on non-binary acceptance decision rules with guard band, and the guard band length parameter is 0. When the measured value falls in the guard band limit, the declaration of conformity is "Conditional PASS" or "Conditional FAIL".



Test Report

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Sample Photo:





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Test Report

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