



Test Report

No.: NBHL1706009952SD

Date: JUL. 06, 2017

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NINGBO SAFEWELL IMP & EXP CO.,LTD
8/F, NO.1 BUILDING, HUADONG PARK, NO.323 NORTHERN CENTURY AVENUE, JIANGDONG, NINGBO, CHINA

The following sample(s) was/were submitted and identified by the client as:

Sample Description : GIANT SWING BLUE, GIANT SWING GREEN

Sample Quantity : 2 SETS
Style No. : SQ-46B, SQ-46G
P.O. No. : NIN-60617
Supplier : NINGBO SAFEWELL IMP & EXP CO.,LTD
Manufacturer : NINGBO SAFEWELL IMP & EXP CO.,LTD
Country of Origin : CHINA
Labeled Age Grading : RECOMMENDED FOR AGES 3+
Requested Age Grading : 3+ YEARS
Age Group Assessed As Per Age : 3+ YEARS
Guideline
Age Group Applied in Testing : 3+ YEARS
Sample Receiving Date : JUN. 27, 2017
Testing Period : JUN. 27, 2017 TO JUL. 06, 2017

Test Requested

- 1. ASTM F963-16 Standard Consumer Safety Specification for Toy Safety Result Pass
2. CPSIA section 101(a)(2) Lead in accessible substrate materials(including Children's Metal Jewelry) Result Pass
3. CPSIA section 108 Phthalates Result Pass

Remark : As per client's request, chemical test was conducted on the specific material selected by client.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Sarah Li

Sarah Li
Authorized Signatory



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Test Conducted:

1. ASTM F963-16 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-16 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

Clause	Description	Result
4	Safety Requirements	
4.1	Material Quality **	Pass
4.2	Flammability Test	Pass (See Detail of test result)
4.3	Toxicology	
4.3.5	Heavy Elements	
	4.3.5.1 Heavy Elements in Paint/Similar Surface Coating Materials	N/A
	4.3.5.2 Heavy Metal in Substrate Materials	N/A
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.10	Wires or Rods	Pass
4.11	Nails and Fasteners	Pass
4.15	Stability and Over-Load Requirements	Pass
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.8	Toys Intended to be Assembled by an Adult	Pass
5.16	Promotional Materials	Pass
6	Instructional Literature	
6.4	Toys Intended to be Assembled by an Adult	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

N/A = Not Applicable

** Visual Examination

Detail of test result:

ASTM F963-16, Clause 4.2 – Flammability Test
Flammability Test on Solid



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Sample
GIANT SWING

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

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

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	NGB17-031582.001	Black plastic buckle
SN2	NGB17-031582.002	Blue fabric
SN3	NGB17-031582.003	Green fabric
SN4	NGB17-031582.004	Black mesh fabric
SN5	NGB17-031582.005	Black rope
SN6	NGB17-031582.006	Blue foam

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 963-16 – soluble heavy metal in Substrate Materials/paint and similar surface-coating materials

Test Method : With reference to ASTM F 963-16 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001	002	003
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
Conclusion				PASS	PASS	PASS

Notes :

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



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2. CPSIA section 101(a)(2) - Lead in accessible substrate materials(including Children's Metal Jewelry)

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	004
Lead (Pb)	0.01	%	0.002	ND
Comment				PASS

Notes :

(1) 0.01% limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA).

3. CPSIA section 108 - Phthalates

Test Method : With reference to CPSC-CH-C1001-09.3, analysis was performed by GC-MS

Concentration of phthalates in components of toy product

Test Item(s)	CAS NO	Permissible Limit	Unit	MDL	001	004	005
Dibutyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Bis(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Comment					PASS	PASS	PASS

Test Item(s)	CAS NO	Permissible Limit	Unit	MDL	006
Dibutyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND
Bis(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND
Comment					PASS

Concentration of phthalates in components of toy that can be placed in the mouth or childcare article

Test Item(s)	CAS NO	Permissible Limit	Unit	MDL	001	004	005
Diisononyl Phthalate (DINP)	28553-12-0/68515-	0.1	%	0.005	ND	ND	ND



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	48-0							
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1	%	0.005	ND	ND	ND	
Diisodecyl Phthalate (DIDP)	26761-40-0/68515-49-1	0.1	%	0.005	ND	ND	ND	
Comment					PASS	PASS	PASS	

<u>Test Item(s)</u>	<u>CAS NO</u>	<u>Permissible</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
		<u>Limit</u>			
Diisononyl Phthalate (DINP)	28553-12-0/68515-48-0	0.1	%	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1	%	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/68515-49-1	0.1	%	0.005	ND
Comment					PASS



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