



**Test Report**

**No.: SHTY130900015731**

**Date: Sep 10, 2013**

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SWIMAVA INTERNATIONAL LIMITED  
1909 CLIFFORD CENTER 778-784 CHEUNG SHA WAN HONG KONG

The following samples were submitted and identified by/on behalf of the client as:

Sample Description : SWIMAVA STARTER RING SET

Sample Quantity : 10 SETS  
Buyer : GLOBAL  
Country of Destination : GLOBAL  
Labeled Age Grading : 3-18 MONTHS  
Requested Age Grading : 3-18 M  
Age Group Applied in Testing : 3-18 MONTHS  
Sample Receiving Date : SEP 03, 2013  
Testing Period : SEP 03, 2013 TO SEP 10, 2013

Test Requested

Result

This is not a toy, the EN 71 standard was applied as per client request. There may be additional hazards and labeling requirements that are not covered by this standard :-

EN 71 Part 1:2011– Mechanical and Physical Properties (excluding labeling requirements) Pass  
EN 71 Part 2:2011– Flammability Pass  
EN71-3:2013 under European Directive 2009/48/EC – Migration of certain elements Pass

Signed for and on behalf of  
SGS-CSTC Ltd.

Wallace Lui  
Senior Technical Manager, Asia

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### Results :

European Standard on Safety of Toys

### Mechanical and Physical Properties

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS - EN 71 Part 1:2011

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.2	Assembly (excluding labeling requirements)	<u>Pass</u>
4.3	Flexible plastics sheeting	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and Metallic Wires	<u>Pass</u>
4.18	Aquatic toys and inflatable toys (excluding labeling requirements)	<u>Pass</u>
4.20	Acoustics	<u>Pass</u>
5	Toys intended for children under 36 months	
5.1	General requirements:	
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	<u>Pass</u>
5.1b	Torque test (Test method 8.3)	<u>Pass</u>
	Tension test (Test method 8.4)	<u>Pass</u>
	Drop test (Test method 8.5)	<u>Pass</u>
	Impact test (Test method 8.7)	<u>Pass</u>
	Sharp edge (Test method 8.11)	<u>Pass</u>
	Sharp point (Test method 8.12)	<u>Pass</u>
5.1f	The casing of toys intended for children too young to sit up unaided	<u>Pass</u>
5.8	Shape and size of certain toys	<u>Pass</u>
6	Packaging	<u>Pass</u>

### - Flammability of Toys

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 2: 2011

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>

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## EN71-3:2013 under European Directive 2009/48/EC-Migration of certain elements

Test Method : With reference to EN 71 Part 3:2013, analysis was performed by ICP-OES.  
Soluble Organic Tin was analyzed by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Chromium (VI)	0.2	mg/kg	0.18	ND	ND	ND
Soluble Lead (Pb)	160	mg/kg	10	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	10	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	4.9	ND	44.5	38.3
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Organic Tin (expressed as Tin)	12	mg/kg	4.9	ND		
^Methyl tin (MeT)	-	mg/kg	0.5		5.6	4.3
^Di-n-propyl tin (DProT)	-	mg/kg	0.5		ND	ND
^Dibutyl tin (DBT)	-	mg/kg	0.5		ND	ND
^Tributyl tin (TBT)	-	mg/kg	0.5		ND	ND
^n-Octyl tin (MOT)	-	mg/kg	0.5		ND	ND
^Tetrabutyl tin (TeBT)	-	mg/kg	0.5		ND	ND
^Diphenyl tin (DPhT)	-	mg/kg	0.5		ND	ND
^Di-n-octyl tin (DOT)	-	mg/kg	0.5		ND	ND
^Triphenyl tin (TPhT)	-	mg/kg	0.5		ND	ND
^Butyl tin(BuT)	-	mg/kg	0.5		ND	ND
Sum of Soluble Organic Tin	12	mg/kg	-		5.6	4.3

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Test Item(s)	Limit	Unit	MDL	004	005	006
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Soluble Lead (Pb)	160	mg/kg	10	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
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Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Organic Tin (expressed as Tin)	12	mg/kg	4.9	ND	ND	ND

Notes :

- (1) Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN71-3: 2013.
- (2) ^ means the Organic Tin specified in EN 71-3:2013 and it is analyzed by GC-MS

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA13-174936.001	Transparent plastic film(Body)
2	SHA13-174936.002	Transparent plastic valve
3	SHA13-174936.003	Transparent soft plastic(Handle)
4	SHA13-174936.004	White plastic buckle
5	SHA13-174936.005	Sky blue plastic(Hand pump)
6	SHA13-174936.006	Dark blue plastic(Hand pump)

Remarks :

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

- N.B. : - Only applicable clauses were shown.  
 - The test results of EN71 Part 1 and Part 2 were copied from report No. SHTY130800015430.

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Sample Photo :



SGS authenticate the photo on original report only

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

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