

Test Report

Number: SHAH01115233

Date: 09 Jul, 2019

Sample Description:

Two(2) sets of submitted sample said to be :

Item Name : 50 ml liquid glue Double tip,24pcs/display box

Quantity : 2 sets

Labelled Age Group : 3+

Packaging Provided By Applicant : No

Country Of Origin : China

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted Sample	EN71-1: 2014+ A1: 2018 for Mechanical And Physical Properties Excluding Labelling Requirement of Clause 7.	Pass (See Remark)
	EN71-2: 2011+A1: 2014 Flammability Test	Pass (See Remark)
Tested components of submitted sample	EN 71-3:2013+A3:2018 on migration of certain elements	See comment
	EN 71-3:2013+A3:2018 on migration of certain elements & EU 2018/725 amending 2009/48/EC (effective from Nov 18,2019) for chromium (VI) migration	See comment

Remark: The submitted sample was examined not a toy and was not subjected to the scope of the European standard of toys EN71. However, as requested by the applicant, the submitted sample was assessed under the requirement of EN71, and the result met the requirement of the standard.

Comment: The testing scope of the following standard(s) was/were not applicable to the submitted samples. However, the test results of the samples met the related requirements as stated in this report.

To be continued

Authorized By:



Young Zhu
Vice President

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Tests Conducted

1 Mechanical and Physical Test

As Per European Standard on Safety of Toys EN71-1: 2014+ A1: 2018.

Applicant's Specified Age Group for Testing: For ages 3 years and up

Clause	Testing Items	Assessment
4	General Requirements	
4.1	Material	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for Children under 36 Months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA

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Clause	Testing Items	Assessment
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	#

Remark: P = Pass

NA = Not Applicable

= The testing scope of European standard on safety of toy EN71 was not applicable to the submitted samples. Therefore, the warning and other requirements specified in clause 7 did not apply.

Date Sample Received: 03 Jul, 2019

Testing Period: 03 Jul, 2019 To 05 Jul, 2019

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2 Flammability Test

As per European Standard on Safety of Toys EN71-2: 2011+A1: 2014

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	
4.2.2	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude 50 mm or more from the surface of the toy	NA
4.2.3	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude less than 50 mm from the surface of the toy	NA
4.2.4	Full or partial moulded head masks	NA
4.2.5	Flowing elements of toys to be worn on the head	NA
4.3	Toy Disguise Costumes and Toys Intended to be Worn by a Child in Play	NA
4.4	Toys Intended to be Entered by a Child	NA
4.5	Soft Filled Toys	NA

Remark : P = Pass

NA = Not Applicable

Date Sample Received: 03 Jul, 2019

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3 19 Toxic Elements Migration Test

(A) Test Result

As per EN 71-3:2013+A3:2018 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, and Gas Chromatographic - Mass Spectrometry

Category (II): Liquid or sticky toy material

Element	Result (mg/kg) (3)	Limit (mg/kg)
Aluminium (Al)	< 100	1406
Antimony (Sb)	< 1.0	11.3
Arsenic (As)	< 0.5	0.9
Barium (Ba)	< 10	375
Boron (B)	< 50	300
Cadmium (Cd)	< 0.1	0.3
Chromium (III) (Cr III) **	< 1.0	9.4
Chromium (VI) (Cr VI) **	< 0.003	0.005
Cobalt (Co)	< 1.0	2.6
Copper (Cu)	< 10	156
Lead (Pb)	< 0.1	0.5
Manganese (Mn)	< 10	300
Mercury (Hg)	< 1.0	1.9
Nickel (Ni)	< 1.0	18.8
Selenium (Se)	< 1.0	9.4
Strontium (Sr)	< 100	1125
Tin (Sn)	< 10	3750
Organic tin **	< 0.15	0.2
Zinc (Zn)	< 100	938

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Category (III): Scraped-off toy material

Element	Result (mg/kg)			Limit (mg/kg)
	(1)#	(2)	(4)	
Aluminium (Al)	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	0.2/0.053©
Cobalt (Co)	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	14	15000
Mercury (Hg)	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	16	460
Strontium (Sr)	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	46000

Remark: mg/kg = Milligram per kilogram

spl. wt. = Sample weight

++ = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.
- Unless specified, test results of Chromium (III), Chromium (VI) and Organic tin were derived from migration results of total chromium and tin respectively.
- Migration of Chromium (III) = Migration of total Chromium – Migration of Chromium(VI), when performed confirmation test for Chromium (VI)

© = The new chromium (VI) migration limit [(0.053mg/kg for Category (III))] were quoted from directive (EU) 2018/725 amending 2009/48/EC effective from 18 November 2019.

= Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Tested Component(s): See component list in the last section of this report.

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(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

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Components:

- (1) Transparent soft plastic.spl.wt.=0.0441g
- (2) Red plastic. (cap)
- (3) Transparent glue.
- (4) White plastic.spl.wt.=0.0911g

End of report

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