

Test Report

Number: SHAH01179384

Applicant: NINGBO MIDEER TOYS CO LTD
RM501, BUILDING NO.1, YIDU CULTURE
SQUARE, HAISHU DISTRICT, NINGBO, ZHEJIANG
Attn: Vera

Date: 21 Jan, 2020

Sample Description:

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

Item Name : WASHABLE MARKER-12
WASHABLE MARKER-24
WASHABLE MARKER-36
WASHABLE MARKER-48
SLIKY CRAYON-3
SLIKY CRAYON-6
SLIKY CRAYON-12
SLIKY CRAYON-24
SLIKY CRAYON-36.

Item No. : MD4069, MD4070, MD4071, MD4079, MD4055, MD4065, MD4066, MD4067,
MD4076.

Quantity : 2 Sets.

Labelled Age Group : 3+

Packaging Provided By Applicant : Yes.

Goods Exported To : Europe, Australia.

Country Of Origin : China.

Tests Conducted:

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

Conclusion:

Tested Samples	Standard	Result
Submitted Sample	EN71-1: 2014+ A1: 2018 for Mechanical And Physical Properties	Pass
	EN71-2: 2011+A1: 2014 Flammability Test	Pass
Tested components of Submitted sample	EN 71-3:2019 on migration of certain elements	Pass

To be continued

Authorized By:
Intertek Testing Services Ltd, Shanghai, Ningbo Branch



Peter Chen
General Manager



Test Report

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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	
7.1	General	P
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

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Tests Conducted

Remark: P = Pass
NA = Not Applicable

Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

- Manufacturer's name and address was on the packaging.
- Importer's name and address was missed.
- Product identification code was on the packaging.
- CE-marking was on the packaging.

Date Sample Received: 20 Dec, 2019

Testing Period: 20 Dec, 2019 To 25 Dec, 2019

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: 20 Dec, 2019

Testing Period: 20 Dec, 2019 To 25 Dec, 2019

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3 19 Toxic Elements Migration Test

(A) Test Result

As per EN 71-3:2019 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 (I): Dry, brittle, powder-like or pliable toy material

Element	Result (mg/kg)				Limit (mg/kg)
	(40)	(41)	(42)	(43)	
Aluminium (Al)	< 100	< 100	< 100	< 100	5625/2250◎
Antimony (Sb)	< 10	< 10	< 10	< 10	45
Arsenic (As)	< 1.0	< 1.0	< 1.0	< 1.0	3.8
Barium (Ba)	40	28	27	13	1500
Boron (B)	< 50	< 50	< 50	< 50	1200
Cadmium (Cd)	< 0.5	< 0.5	< 0.5	< 0.5	1.3
Chromium (III) (Cr III) **	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Chromium (VI) (Cr VI) **	< 0.015	< 0.015	< 0.015	< 0.015	0.02
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	10.5
Copper (Cu)	< 10	< 10	< 10	< 10	622.5
Lead (Pb)	< 1.0	< 1.0	< 1.0	< 1.0	2.0
Manganese (Mn)	< 10	< 10	< 10	< 10	1200
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	7.5
Nickel (Ni)	< 10	< 10	< 10	< 10	75
Selenium (Se)	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Strontium (Sr)	< 100	< 100	< 100	< 100	4500
Tin (Sn)	< 10	< 10	< 10	< 10	15000
Organic tin **	< 0.3	< 0.3	< 0.3	< 0.3	0.9
Zinc (Zn)	< 100	< 100	< 100	< 100	3750

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Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(44)	(45)	(46)	(47)#	
Aluminium (Al)	< 100	< 100	< 100	< 100	5625/2250©
Antimony (Sb)	< 10	< 10	< 10	< 10	45
Arsenic (As)	< 1.0	< 1.0	< 1.0	< 1.0	3.8
Barium (Ba)	< 10	107	175	< 10	1500
Boron (B)	< 50	< 50	< 50	< 50	1200
Cadmium (Cd)	< 0.5	< 0.5	< 0.5	< 0.5	1.3
Chromium (III) (Cr III) **	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Chromium (VI) (Cr VI) **	< 0.015	< 0.015	< 0.015	< 0.01	0.02
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	10.5
Copper (Cu)	< 10	< 10	< 10	< 10	622.5
Lead (Pb)	< 1.0	< 1.0	< 1.0	< 1.0	2.0
Manganese (Mn)	< 10	< 10	< 10	< 10	1200
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	7.5
Nickel (Ni)	< 10	< 10	< 10	< 10	75
Selenium (Se)	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Strontium (Sr)	< 100	< 100	< 100	< 100	4500
Tin (Sn)	< 10	< 10	< 10	< 10	15000
Organic tin **	< 0.3	< 0.3	< 0.3	< 0.3	0.9
Zinc (Zn)	< 100	< 100	108	< 100	3750

Element	Result (mg/kg)				Limit (mg/kg)
	(48)#	(49)#	(50)	(51)#	
Aluminium (Al)	< 100	< 100	< 100	< 100	5625/2250©
Antimony (Sb)	< 10	< 10	< 10	< 10	45
Arsenic (As)	< 1.0	< 1.0	< 1.0	< 1.0	3.8
Barium (Ba)	< 10	< 10	11	< 10	1500
Boron (B)	< 50	< 50	< 50	< 50	1200
Cadmium (Cd)	< 0.5	< 0.5	< 0.5	< 0.5	1.3
Chromium (III) (Cr III) **	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Chromium (VI) (Cr VI) **	< 0.01	< 0.015	< 0.015	< 0.01	0.02
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	10.5
Copper (Cu)	< 10	< 10	< 10	< 10	622.5
Lead (Pb)	< 1.0	< 1.0	< 1.0	< 1.0	2.0
Manganese (Mn)	< 10	< 10	< 10	< 10	1200
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	7.5
Nickel (Ni)	< 10	< 10	< 10	< 10	75
Selenium (Se)	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Strontium (Sr)	< 100	< 100	< 100	< 100	4500
Tin (Sn)	< 10	< 10	< 10	< 10	15000
Organic tin **	< 0.3	< 0.3	< 0.3	< 0.3	0.9
Zinc (Zn)	< 100	< 100	< 100	< 100	3750

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Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(52)#	(53)	(54)	(55)	
Aluminium (Al)	< 100	< 100	< 100	< 100	5625/2250©
Antimony (Sb)	< 10	< 10	< 10	< 10	45
Arsenic (As)	< 1.0	< 1.0	< 1.0	< 1.0	3.8
Barium (Ba)	< 10	67	< 10	24	1500
Boron (B)	< 50	< 50	< 50	< 50	1200
Cadmium (Cd)	< 0.5	< 0.5	< 0.5	< 0.5	1.3
Chromium (III) (Cr III) **	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Chromium (VI) (Cr VI) **	< 0.01	< 0.015	< 0.015	< 0.015	0.02
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	10.5
Copper (Cu)	< 10	< 10	< 10	< 10	622.5
Lead (Pb)	< 1.0	< 1.0	< 1.0	< 1.0	2.0
Manganese (Mn)	< 10	< 10	< 10	< 10	1200
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	7.5
Nickel (Ni)	< 10	< 10	< 10	< 10	75
Selenium (Se)	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Strontium (Sr)	< 100	< 100	< 100	< 100	4500
Tin (Sn)	< 10	< 10	< 10	< 10	15000
Organic tin **	< 0.3	< 0.3	< 0.3	< 0.3	0.9
Zinc (Zn)	< 100	< 100	< 100	< 100	3750

Element	Result (mg/kg)				Limit (mg/kg)
	(56)	(57)	(58)#	(59)	
Aluminium (Al)	< 100	< 100	< 100	< 100	5625/2250©
Antimony (Sb)	< 10	< 10	< 10	< 10	45
Arsenic (As)	< 1.0	< 1.0	< 1.0	< 1.0	3.8
Barium (Ba)	< 10	< 10	< 10	< 10	1500
Boron (B)	< 50	< 50	< 50	< 50	1200
Cadmium (Cd)	< 0.5	< 0.5	< 0.5	< 0.5	1.3
Chromium (III) (Cr III) **	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Chromium (VI) (Cr VI) **	< 0.015	< 0.015	< 0.01	< 0.015	0.02
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	10.5
Copper (Cu)	< 10	< 10	< 10	< 10	622.5
Lead (Pb)	< 1.0	< 1.0	< 1.0	< 1.0	2.0
Manganese (Mn)	< 10	< 10	< 10	< 10	1200
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	7.5
Nickel (Ni)	< 10	< 10	< 10	< 10	75
Selenium (Se)	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Strontium (Sr)	< 100	< 100	< 100	< 100	4500
Tin (Sn)	< 10	< 10	< 10	< 10	15000
Organic tin **	< 0.3	< 0.3	< 0.3	< 0.3	0.9
Zinc (Zn)	< 100	< 100	< 100	< 100	3750

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Element	Result (mg/kg)				Limit (mg/kg)
	(60)#	(61)	(62) to (64)	(65)	
Aluminium (Al)	< 100	< 100	< 100	< 100	5625/2250◎
Antimony (Sb)	< 10	< 10	< 10	< 10	45
Arsenic (As)	< 1.0	< 1.0	< 1.0	< 1.0	3.8
Barium (Ba)	< 10	209	< 10	17	1500
Boron (B)	< 50	< 50	< 50	< 50	1200
Cadmium (Cd)	< 0.5	< 0.5	< 0.5	< 0.5	1.3
Chromium (III) (Cr III) **	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Chromium (VI) (Cr VI) **	< 0.01	< 0.015	< 0.015	< 0.015	0.02
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	10.5
Copper (Cu)	< 10	< 10	< 10	< 10	622.5
Lead (Pb)	< 1.0	< 1.0	< 1.0	< 1.0	2.0
Manganese (Mn)	< 10	< 10	< 10	< 10	1200
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	7.5
Nickel (Ni)	< 10	< 10	< 10	< 10	75
Selenium (Se)	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Strontium (Sr)	< 100	< 100	< 100	< 100	4500
Tin (Sn)	< 10	< 10	< 10	< 10	15000
Organic tin **	< 0.3	< 0.3	< 0.3	< 0.3	0.9
Zinc (Zn)	< 100	< 100	< 100	< 100	3750

Element	Result (mg/kg)				Limit (mg/kg)
	(66)	(67)	(68)	(69)	
Aluminium (Al)	< 100	< 100	< 100	< 100	5625/2250◎
Antimony (Sb)	< 10	< 10	< 10	< 10	45
Arsenic (As)	< 1.0	< 1.0	< 1.0	< 1.0	3.8
Barium (Ba)	< 10	30	< 10	< 10	1500
Boron (B)	< 50	< 50	< 50	< 50	1200
Cadmium (Cd)	< 0.5	< 0.5	< 0.5	< 0.5	1.3
Chromium (III) (Cr III) **	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Chromium (VI) (Cr VI) **	< 0.015	< 0.015	< 0.015	< 0.015	0.02
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	10.5
Copper (Cu)	< 10	< 10	< 10	< 10	622.5
Lead (Pb)	< 1.0	< 1.0	< 1.0	< 1.0	2.0
Manganese (Mn)	< 10	< 10	< 10	< 10	1200
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	7.5
Nickel (Ni)	< 10	< 10	< 10	< 10	75
Selenium (Se)	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Strontium (Sr)	< 100	< 100	< 100	< 100	4500
Tin (Sn)	< 10	< 10	< 10	< 10	15000
Organic tin **	< 0.3	< 0.3	< 0.3	< 0.3	0.9
Zinc (Zn)	< 100	< 100	< 100	< 100	3750

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Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(70)	(71)	(72)	(73)	
Aluminium (Al)	< 100	< 100	< 100	< 100	5625/2250◎
Antimony (Sb)	< 10	< 10	< 10	< 10	45
Arsenic (As)	< 1.0	< 1.0	< 1.0	< 1.0	3.8
Barium (Ba)	87	< 10	27	< 10	1500
Boron (B)	< 50	< 50	< 50	< 50	1200
Cadmium (Cd)	< 0.5	< 0.5	< 0.5	< 0.5	1.3
Chromium (III) (Cr III) **	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Chromium (VI) (Cr VI) **	< 0.015	< 0.015	< 0.015	< 0.015	0.02
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	10.5
Copper (Cu)	< 10	< 10	< 10	< 10	622.5
Lead (Pb)	< 1.0	< 1.0	< 1.0	< 1.0	2.0
Manganese (Mn)	< 10	< 10	< 10	< 10	1200
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	7.5
Nickel (Ni)	< 10	< 10	< 10	< 10	75
Selenium (Se)	< 5.0	< 5.0	< 5.0	< 5.0	37.5
Strontium (Sr)	< 100	< 100	< 100	< 100	4500
Tin (Sn)	< 10	< 10	< 10	< 10	15000
Organic tin **	< 0.3	< 0.3	< 0.3	< 0.3	0.9
Zinc (Zn)	< 100	< 100	< 100	< 100	3750

Element	Result (mg/kg)		Limit (mg/kg)
	(74)	(75)	
Aluminium (Al)	101	114	5625/2250◎
Antimony (Sb)	< 10	< 10	45
Arsenic (As)	< 1.0	< 1.0	3.8
Barium (Ba)	< 10	205	1500
Boron (B)	< 50	< 50	1200
Cadmium (Cd)	< 0.5	< 0.5	1.3
Chromium (III) (Cr III) **	< 5.0	< 5.0	37.5
Chromium (VI) (Cr VI) **	< 0.015	< 0.015	0.02
Cobalt (Co)	< 1.0	< 1.0	10.5
Copper (Cu)	< 10	< 10	622.5
Lead (Pb)	< 1.0	< 1.0	2.0
Manganese (Mn)	< 10	< 10	1200
Mercury (Hg)	< 1.0	< 1.0	7.5
Nickel (Ni)	< 10	< 10	75
Selenium (Se)	< 5.0	< 5.0	37.5
Strontium (Sr)	< 100	< 100	4500
Tin (Sn)	< 10	< 10	15000
Organic tin **	< 0.3	< 0.3	0.9
Zinc (Zn)	< 100	< 100	3750

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Tests Conducted

Category (II): Liquid or sticky toy material

Element	Result (mg/kg)				Limit (mg/kg)
	(112)#	(113)#	(114)	(115)#	
Aluminium (Al)	< 100	< 100	< 100	< 100	1406/560©
Antimony (Sb)	< 1.0	< 1.0	< 1.0	< 1.0	11.3
Arsenic (As)	< 0.5	< 0.5	< 0.5	< 0.5	0.9
Barium (Ba)	< 10	< 10	< 10	< 10	375
Boron (B)	< 50	< 50	< 50	< 50	300
Cadmium (Cd)	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Chromium (III) (Cr III) **	1.2	< 1.0	< 1.0	< 1.0	9.4
Chromium (VI) (Cr VI) **	< 0.003	< 0.003	< 0.003	< 0.003	0.005
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	2.6
Copper (Cu)	< 10	< 10	< 10	< 10	156
Lead (Pb)	< 0.1	< 0.1	< 0.1	< 0.1	0.5
Manganese (Mn)	< 10	< 10	< 10	< 10	300
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	1.9
Nickel (Ni)	< 1.0	< 1.0	< 1.0	< 1.0	18.8
Selenium (Se)	< 1.0	< 1.0	< 1.0	< 1.0	9.4
Strontium (Sr)	< 100	< 100	< 100	< 100	1125
Tin (Sn)	< 10	< 10	< 10	< 10	3750
Organic tin **	< 0.15	< 0.15	< 0.15	< 0.15	0.2
Zinc (Zn)	< 100	< 100	< 100	< 100	938

Element	Result (mg/kg)				Limit (mg/kg)
	(116) to (120)	(121)	(122) to (131)	(132)	
Aluminium (Al)	< 100	< 100	< 100	< 100	1406/560©
Antimony (Sb)	< 1.0	< 1.0	< 1.0	< 1.0	11.3
Arsenic (As)	< 0.5	< 0.5	< 0.5	< 0.5	0.9
Barium (Ba)	< 10	< 10	< 10	< 10	375
Boron (B)	< 50	< 50	< 50	< 50	300
Cadmium (Cd)	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Chromium (III) (Cr III) **	< 1.0	< 1.0	< 1.0	< 1.0	9.4
Chromium (VI) (Cr VI) **	< 0.003	< 0.003	< 0.003	< 0.003	0.005
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	2.6
Copper (Cu)	< 10	< 10	< 10	< 10	156
Lead (Pb)	< 0.1	0.2	< 0.1	0.3	0.5
Manganese (Mn)	< 10	< 10	< 10	< 10	300
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	1.9
Nickel (Ni)	< 1.0	< 1.0	< 1.0	< 1.0	18.8
Selenium (Se)	< 1.0	< 1.0	< 1.0	< 1.0	9.4
Strontium (Sr)	< 100	< 100	< 100	< 100	1125
Tin (Sn)	< 10	< 10	< 10	< 10	3750
Organic tin **	< 0.15	< 0.15	< 0.15	< 0.15	0.2
Zinc (Zn)	< 100	< 100	< 100	< 100	938

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(133)	(134)	(135)	(136)#	
Aluminium (Al)	< 100	< 100	< 100	< 100	1406/560©
Antimony (Sb)	< 1.0	< 1.0	< 1.0	< 1.0	11.3
Arsenic (As)	< 0.5	< 0.5	< 0.5	< 0.5	0.9
Barium (Ba)	< 10	< 10	< 10	< 10	375
Boron (B)	< 50	< 50	< 50	< 50	300
Cadmium (Cd)	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Chromium (III) (Cr III) **	< 1.0	< 1.0	< 1.0	< 1.0	9.4
Chromium (VI) (Cr VI) **	< 0.003	< 0.003	< 0.003	< 0.003	0.005
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	2.6
Copper (Cu)	< 10	< 10	< 10	< 10	156
Lead (Pb)	0.3	< 0.1	< 0.1	< 0.1	0.5
Manganese (Mn)	< 10	< 10	< 10	< 10	300
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	1.9
Nickel (Ni)	< 1.0	< 1.0	< 1.0	< 1.0	18.8
Selenium (Se)	< 1.0	< 1.0	< 1.0	< 1.0	9.4
Strontium (Sr)	< 100	< 100	< 100	< 100	1125
Tin (Sn)	< 10	< 10	< 10	< 10	3750
Organic tin **	< 0.15	< 0.15	< 0.15	< 0.15	0.2
Zinc (Zn)	< 100	< 100	< 100	< 100	938

Element	Result (mg/kg)				Limit (mg/kg)
	(137) to (147)	(161)	(162)	(163)#	
Aluminium (Al)	< 100	< 100	< 100	< 100	1406/560©
Antimony (Sb)	< 1.0	< 1.0	< 1.0	< 1.0	11.3
Arsenic (As)	< 0.5	< 0.5	< 0.5	< 0.5	0.9
Barium (Ba)	< 10	< 10	< 10	< 10	375
Boron (B)	< 50	< 50	< 50	< 50	300
Cadmium (Cd)	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Chromium (III) (Cr III) **	< 1.0	< 1.0	< 1.0	< 1.0	9.4
Chromium (VI) (Cr VI) **	< 0.003	< 0.003	< 0.003	< 0.003	0.005
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	2.6
Copper (Cu)	< 10	< 10	< 10	< 10	156
Lead (Pb)	< 0.1	< 0.1	< 0.1	< 0.1	0.5
Manganese (Mn)	< 10	< 10	< 10	< 10	300
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	1.9
Nickel (Ni)	< 1.0	< 1.0	< 1.0	< 1.0	18.8
Selenium (Se)	< 1.0	< 1.0	< 1.0	< 1.0	9.4
Strontium (Sr)	< 100	< 100	< 100	< 100	1125
Tin (Sn)	< 10	< 10	< 10	< 10	3750
Organic tin **	< 0.15	< 0.15	< 0.15	< 0.15	0.2
Zinc (Zn)	< 100	< 100	< 100	< 100	938

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(164)	(165)	(166) to (169)	(170)#	
Aluminium (Al)	< 100	< 100	< 100	< 100	1406/560©
Antimony (Sb)	< 1.0	< 1.0	< 1.0	< 1.0	11.3
Arsenic (As)	< 0.5	< 0.5	< 0.5	< 0.5	0.9
Barium (Ba)	< 10	< 10	< 10	< 10	375
Boron (B)	< 50	< 50	< 50	< 50	300
Cadmium (Cd)	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Chromium (III) (Cr III) **	< 1.0	< 1.0	< 1.0	< 1.0	9.4
Chromium (VI) (Cr VI) **	< 0.003	< 0.003	< 0.003	< 0.003	0.005
Cobalt (Co)	< 1.0	< 1.0	< 1.0	< 1.0	2.6
Copper (Cu)	< 10	< 10	< 10	< 10	156
Lead (Pb)	< 0.1	0.2	< 0.1	< 0.1	0.5
Manganese (Mn)	< 10	< 10	< 10	< 10	300
Mercury (Hg)	< 1.0	< 1.0	< 1.0	< 1.0	1.9
Nickel (Ni)	< 1.0	< 1.0	< 1.0	< 1.0	18.8
Selenium (Se)	< 1.0	< 1.0	< 1.0	< 1.0	9.4
Strontium (Sr)	< 100	< 100	< 100	< 100	1125
Tin (Sn)	< 10	< 10	< 10	< 10	3750
Organic tin **	< 0.15	< 0.15	< 0.15	< 0.15	0.2
Zinc (Zn)	< 100	< 100	< 100	< 100	938

Element	Result (mg/kg)		Limit (mg/kg)
	(171)	(172)	
Aluminium (Al)	< 100	< 100	1406/560©
Antimony (Sb)	< 1.0	< 1.0	11.3
Arsenic (As)	< 0.5	< 0.5	0.9
Barium (Ba)	< 10	< 10	375
Boron (B)	< 50	< 50	300
Cadmium (Cd)	< 0.1	< 0.1	0.3
Chromium (III) (Cr III) **	< 1.0	< 1.0	9.4
Chromium (VI) (Cr VI) **	< 0.003	< 0.003	0.005
Cobalt (Co)	< 1.0	< 1.0	2.6
Copper (Cu)	< 10	< 10	156
Lead (Pb)	< 0.1	< 0.1	0.5
Manganese (Mn)	< 10	< 10	300
Mercury (Hg)	< 1.0	< 1.0	1.9
Nickel (Ni)	< 1.0	< 1.0	18.8
Selenium (Se)	< 1.0	< 1.0	9.4
Strontium (Sr)	< 100	< 100	1125
Tin (Sn)	< 10	< 10	3750
Organic tin **	< 0.15	< 0.15	0.2
Zinc (Zn)	< 100	< 100	938

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Category (III): Scraped-off toy material

Element	Result (mg/kg)				Limit (mg/kg)
	(1)#	(2) to (8)	(9)#	(10)#	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130©
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	12	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	13	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	275	< 100	< 100	< 100	46000

Element	Result (mg/kg)				Limit (mg/kg)
	(11)	(12)	(13)	(14)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130©
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	572	< 100	< 100	46000

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(15)#	(16)#	(17)#	(18)#	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130◎
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	40	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

Element	Result (mg/kg)				Limit (mg/kg)
	(19)#	(20)#	(21)	(22)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130◎
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(23)#	(24) to (26)	(27)#	(28)#	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130◎
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

Element	Result (mg/kg)				Limit (mg/kg)
	(29)#	(30)#	(31)	(32)#	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130◎
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(33)	(34)#	(35) to (39)	(76)#	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130◎
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	15	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

Element	Result (mg/kg)				Limit (mg/kg)
	(77)#	(78) to (80)	(81)#	(82)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130◎
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(83)#	(84) to (98)	(99)#	(100)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130◎
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

Element	Result (mg/kg)				Limit (mg/kg)
	(101)	(102)#	(103) to (107)	(108)#	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130◎
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(109) to (111)	(148)#	(149)	(150)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130©
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

Element	Result (mg/kg)				Limit (mg/kg)
	(151)#	(152) to (158)	(159)#	(160)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130©
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	6765	< 100	46000

To be continued



Test Report

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Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(173)#	(174)#	(175)#	(176)#	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000/28130©
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	18	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	114	< 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.

© = The new Aluminium (Al) migration limit [2250mg/kg for Category (I), 560mg/kg for Category (II), 28130mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.

= 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.

To be continued



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Number: SHAH01179384

Tests Conducted

(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).

Date Sample Received: 20 Dec, 2019 & 16 Jan, 2020

Testing Period: 20 Dec, 2019 & 16 Jan, 2020 To 02 Jan, 2020 & 20 Jan, 2020

To be continued



Test Report

Number: SHAH01179384

Tests Conducted



To be continued



Test Report

Number: SHAH01179384

Tests Conducted



To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Components:

- (1) White coating on plastic(all style). (spl.wt.=0.0300g)
- (2) Pale grey plastic(MD4076/MD4067 penholder).
- (3) Transparent white plastic(MD4076/MD4067 cap).
- (4) Purple plastic(MD4076 cap/penholder). (spl.wt.=0.0733g)
- (5) Violet plastic(MD4076/MD4067/MD4066/MD4065 cap/penholder).
- (6) Pink plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0923g)
- (7) Ginger plastic(MD4076 cap/penholder).
- (8) Mint green plastic(MD4076 cap/penholder). (spl.wt.=0.0671g)
- (9) Orange plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0797g)
- (10) Green plastic(MD4076/MD4067/MD4066/MD4065 cap/penholder). (spl.wt.=0.0943g)
- (11) White plastic(MD4076/MD4067/MD4066 cap/penholder). (spl.wt.=0.0821g)
- (12) Dark brown plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0924g)
- (13) Brown plastic(MD4076 cap/penholder). (spl.wt.=0.0862g)
- (14) Light brown plastic(MD4076/MD4067/MD4066 cap/penholder). (spl.wt.=0.0685g)
- (15) Black plastic(MD4076/MD4067/MD4066 cap/penholder). (spl.wt.=0.0890g)
- (16) Sky blue plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0892g)
- (17) Dark green plastic(MD4076 cap/penholder). (spl.wt.=0.0873g)
- (18) Sea green plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0954g)
- (19) Grass green plastic(MD4076/MD4067/MD4066 cap/penholder). (spl.wt.=0.0890g)
- (20) Olive green plastic(MD4076 cap/penholder). (spl.wt.=0.0763g)
- (21) Golden plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0631g)
- (22) Dark yellow plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0750g)
- (23) Yellow plastic(MD4076/MD4067/MD4066/MD4065/MD4055 cap/penholder).
- (24) Light yellow plastic(MD4076 cap/penholder). (spl.wt.=0.0786g)
- (25) Green yellow plastic(MD4076 cap/penholder). (spl.wt.=0.0854g)
- (26) Slivery plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0957g)
- (27) Dark grey plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0985g)
- (28) Red plastic(MD4076/MD4067/MD4066/MD4065/MD4055 cap/penholder). (spl.wt.=0.0713g)
- (29) Light red plastic(MD4076 cap/penholder). (spl.wt.=0.0711g)
- (30) Amaranth plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0737g)
- (31) Peach plastic(MD4076 cap/penholder). (spl.wt.=0.0821g)
- (32) Yellowish brown plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0820g)
- (33) Flesh color plastic(MD4076/MD4067/MD4066 cap/penholder). (spl.wt.=0.0865g)
- (34) Dark orange plastic(MD4076/MD4067/MD4066/MD4065 cap/penholder). (spl.wt.=0.0952g)
- (35) Light purple plastic(MD4076 cap/penholder). (spl.wt.=0.0690g)
- (36) Grey blue plastic(MD4076 cap/penholder). (spl.wt.=0.0664g)
- (37) Blue plastic(MD4076/MD4067/MD4066/MD4065 cap/penholder). (spl.wt.=0.0763g)
- (38) Royal blue plastic(MD4076/MD4067/MD4066/MD4055 cap/penholder). (spl.wt.=0.0800g)
- (39) Navy blue plastic(MD4076/MD4067 cap/penholder). (spl.wt.=0.0892g)
- (40) Purple crayon(MD4076).
- (41) Violet crayon(MD4076/MD4067/MD4066/MD4065).
- (42) Pink crayon(MD4076/MD4067).
- (43) Ginger crayon(MD4076).
- (44) Mint green crayon(MD4076).
- (45) Orange crayon(MD4076/MD4067).

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Components:

- (46) Green crayon(MD4076/MD4067/MD4066/MD4065).
- (47) White crayon(MD4076/MD4067/MD4066).
- (48) Dark brown crayon(MD4076/MD4067).
- (49) Brown crayon(MD4076).
- (50) Light brown crayon(MD4076/MD4067/MD4066).
- (51) Black crayon(MD4076/MD4067/MD4066).
- (52) Sky blue crayon(MD4076/MD4067).
- (53) Dark green crayon(MD4076).
- (54) Sea green crayon(MD4076/MD4067).
- (55) Grass green crayon(MD4076/MD4067/MD4066).
- (56) Olive green crayon(MD4076).
- (57) Golden crayon(MD4076/MD4067).
- (58) Dark yellow crayon(MD4076/MD4067).
- (59) Yellow crayon(MD4076/MD4067/MD4066/MD4065/MD4055).
- (60) Light yellow crayon(MD4076).
- (61) Green yellow crayon(MD4076).
- (62) Slivery crayon(MD4076/MD4067).
- (63) Dark grey crayon(MD4076/MD4067).
- (64) Red crayon(MD4076/MD4067/MD4066/MD4065/MD4055).
- (65) Light red crayon(MD4076).
- (66) Amaranth crayon(MD4076/MD4067).
- (67) Peach crayon(MD4076).
- (68) Yellowish brown crayon(MD4076/MD4067).
- (69) Flesh color crayon(MD4076/MD4067/MD4066).
- (70) Dark orange crayon(MD4076/MD4067/MD4066/MD4065).
- (71) Light purple crayon(MD4076).
- (72) Grey blue crayon(MD4076).
- (73) Blue crayon(MD4076/MD4067/MD4066/MD4065).
- (74) Royal blue crayon(MD4076/MD4067/MD4066/MD4055).
- (75) Navy blue crayon(MD4076/MD4067).
- (76) Black plastic(MD4071/MD4079//MD4070/MD4069 cap/penholder).
- (77) Grey plastic(MD4071/MD4079/MD4070/MD4069 cap/penholder).
- (78) Dark brown plastic(MD4071/MD4079 cap/penholder).
- (79) Brown plastic(MD4071/MD4079/MD4070/MD4069 cap/penholder).
- (80) Light brown plastic(MD4071/MD4079/MD4070 cap/penholder).
- (81) Peru plastic(MD4071/MD4079/MD4070 cap/penholder).
- (82) Dark flesh color plastic(MD4071/MD4079 cap/penholder).
- (83) Flesh color plastic(MD4071/MD4079/MD4070/MD4069 cap/penholder). (spl.wt.=0.0975g)
- (84) Ginger plastic(MD4071/MD4079/MD4070 cap/penholder).
- (85) Yellow plastic(MD4071/MD4079 cap/penholder).
- (86) Dark yellow plastic(MD4071/MD4079/MD4070/MD4069 cap/penholder).
- (87) Dark cyan plastic(MD4071/MD4079/MD4070 cap/penholder).
- (88) Dark green plastic(MD4071/MD4079/MD4070 cap/penholder).
- (89) Forest green plastic(MD4071/MD4079 cap/penholder).

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Components:

- (90) Olive green plastic(MD4071/MD4079/MD4070 cap/penholder).
- (91) Green plastic(MD4071/MD4079/MD4070/MD4069 cap/penholder).
- (92) Light green plastic(MD4071/MD4079/MD4070 cap/penholder).
- (93) Pale green plastic(MD4071/MD4079 cap/penholder).
- (94) Midnight blue plastic(MD4071/MD4079 cap/penholder).
- (95) Teal plastic(MD4071/MD4079 cap/penholder).
- (96) Dark blue plastic(MD4071/MD4079/MD4070/MD4069 cap/penholder).
- (97) Blue plastic(MD4071/MD4079/MD4070/MD4069 cap/penholder).
- (98) Sky blue plastic(MD4071/MD4079/MD4070 cap/penholder).
- (99) Dark red plastic(MD4071/MD4079/MD4070 cap/penholder).
- (100) Red plastic(MD4071/MD4079/MD4070/MD4069 cap/penholder).
- (101) Light red plastic(MD4071/MD4079 cap/penholder).
- (102) Dark orange plastic(MD4071/MD4079/MD4070 cap/penholder).
- (103) Orange plastic(MD4071/MD4079/MD4070/MD4069 cap/penholder).
- (104) Hot-pink plastic(MD4071/MD4079/MD4070/MD4069 cap/penholder).
- (105) Fuchsia plastic(MD4071/MD4079 cap/penholder).
- (106) Pink plastic(MD4071/MD4079 cap/penholder).
- (107) Dark purple plastic(MD4071/MD4079/MD4070/MD4069 cap/penholder).
- (108) Slate blue plastic(MD4071/MD4079 cap/penholder).
- (109) Light purple plastic(MD4071/MD4079/MD4070 cap/penholder).
- (110) Orchid plastic(MD4071/MD4079/MD4070 cap/penholder).
- (111) Violet plastic(MD4071/MD4079 cap/penholder).
- (112) Black ink(MD4071/MD4079/MD4070/MD4069).
- (113) Grey ink(MD4071/MD4079/MD4070/MD4069).
- (114) Dark brown ink(MD4071/MD4079).
- (115) Brown ink(MD4071/MD4079/MD4070/MD4069).
- (116) Light brown ink(MD4071/MD4079/MD4070).
- (117) Peru ink(MD4071/MD4079/MD4070).
- (118) Dark flesh ink(MD4071/MD4079).
- (119) Flesh color ink(MD4071/MD4079/MD4070/MD4069).
- (120) Ginger ink(MD4071/MD4079/MD4070).
- (121) Yellow ink(MD4071/MD4079).
- (122) Dark yellow ink(MD4071/MD4079/MD4070/MD4069).
- (123) Dark cyan ink(MD4071/MD4079/MD4070/MD4069).
- (124) Dark green ink(MD4071/MD4079/MD4070).
- (125) Forest green ink(MD4071/MD4079).
- (126) Olive green ink(MD4071/MD4079/MD4070).
- (127) Green ink(MD4071/MD4079/MD4070/MD4069).
- (128) Light green ink(MD4071/MD4079/MD4070).
- (129) Pale green ink(MD4071/MD4079).

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Components:

- (130) Midnight blue ink(MD4071/MD4079).
- (131) Teal ink(MD4071/MD4079).
- (132) Dark blue ink(MD4071/MD4079/MD4070/MD4069).
- (133) Blue ink(MD4071/MD4079/MD4070).
- (134) Sky blue ink(MD4071/MD4079/MD4070).
- (135) Dark red ink(MD4071/MD4079/MD4070).
- (136) Red ink(MD4071/MD4079/MD4070/MD4069).
- (137) Light red ink(MD4071/MD4079).
- (138) Dark orange ink(MD4071/MD4079/MD4070).
- (139) Orange ink(MD4071/MD4079/MD4070/MD4069).
- (140) Hot-pink ink(MD4071/MD4079/MD4070/MD4069).
- (141) Fuchsia ink(MD4071/MD4079).
- (142) Pink ink(MD4071/MD4079).
- (143) Dark purple ink(MD4071/MD4079/MD4070/MD4069).
- (144) Slate blue ink(MD4071/MD4079).
- (145) Light purple ink(MD4071/MD4079/MD4070).
- (146) Orchid ink(MD4071/MD4079/MD4070).
- (147) Violet ink(MD4071/MD4079).
- (148) White fiber(MD4071/MD4079 nib).
- (149) Dark sky blue plastic(MD4079 cap/penholder).
- (150) Dark olive green plastic(MD4079 cap/penholder).
- (151) Dark forest green plastic(MD4079 cap/penholder). (spl.wt.=0.0943g)
- (152) Indigo plastic(MD4079 cap/penholder).
- (153) Dark violet plastic(MD4079 cap/penholder).
- (154) Wheat color plastic(MD4079 cap/penholder).
- (155) Pale grey plastic(MD4079 cap/penholder).
- (156) Light slate gray plastic(MD4079 cap/penholder).
- (157) Deep grey plastic(MD4079 cap/penholder).
- (158) Maroon plastic(MD4079 cap/penholder).
- (159) Reddish brown plastic(MD4079 cap/penholder).

To be continued



Test Report

Number: SHAH01179384

Tests Conducted

Components:

- (160) Magenta plastic(MD4079 cap/penholder).
- (161) Dark sky blue ink(MD4079).
- (162) Dark olive green ink(MD4079).
- (163) Dark forest green ink(MD4079).
- (164) Indigo ink(MD4079).
- (165) Dark violet ink(MD4079).
- (166) Wheat color ink(MD4079).
- (167) Pale grey ink(MD4079).
- (168) Light slate gray ink(MD4079).
- (169) Deep grey ink(MD4079).
- (170) Maroon ink(MD4079).
- (171) Reddish brown ink(MD4079).
- (172) Magenta ink(MD4079).
- (173) White/brown paperboard(box).
- (174) Transparent plastic film with multi-color printing(box). (spl.wt.=0.0711g)
- (175) White foam(box).
- (176) White paperboard with multi-color printing(box).

End of report

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