



Greater China

Test Report

No.: 70.452.20.10500.01R1

Dated: 2020-06-16

Applicant: NINGBO MIDEER Network and Technology LTD
Address: ROOM 5-1,NO.55,YIDU CULTURAL SQUARE, HAISHU DISTRICT, NINGBO CITY, ZHEJIANG
Product Name: CRYSTAL GROWING KIT
 MINING HEROES
 FANTASY OCEAN
 SOAP LAND
 SCIENCE TALENT
Style No.: MD0126, MD0127, MD0129, MD0130, MD0128
Labelled Age Range: 6+
Requested Age Range: 6+
Age Range for Testing: Over 6 years
Country of Origin: CHINA
Receipt Date of Sample: 2020-03-26, 2020-05-27
Date of Testing: 2020-03-26 to 2020-04-08, 2020-05-07 to 2020-06-16
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Remark: This report supersedes the previous report 70.452.20.10500.01 dated on 2020-04-08.

Test Item	Conclusion
1. EN 71-1:2014+A1:2018 Mechanical and Physical Properties	Pass
2. EN 71-2:2011+A1:2014 Flammability	Pass
3. EN 71-3:2019 Migration of certain elements	Pass [#]

Remarks: 1. MDL = Method Detection Limit
 2. ND = Not Detected (<MDL)
 3. <= Less than
 4. 1 mg/kg = 1 ppm = 0.0001%
 5. #=Only specified components were tested according to client's requirement

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TÜV SÜD Certification and Testing (China) Co.,Ltd. Shanghai Branch
Testing Center

Prepared by:

Handwritten signature of Wu, Jingqing in blue ink.

Wu, Jingqing
Technical Engineer



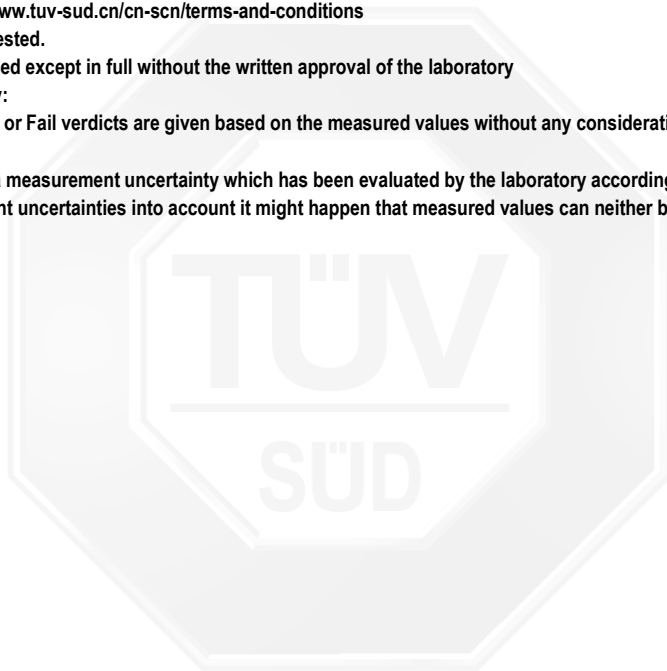
Authorized by:

Handwritten signature of Sawyer Tang in blue ink.


Sawyer Tang
Technical Manager

Note:



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Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.



Description of the Tested Subject

Sample	Description	Photo
A	CRYSTAL GROWING KIT	

Sample	Description	Photo
B	MINING HEROES	
C	FANTASY OCEAN	

Sample	Description	Photo
D	SOAP LAND	 <p>The top photo shows the 'SOAP LAND' product box, which is green and features illustrations of children making soap. The bottom photo shows the contents of the kit, including a box with various soap-making tools and materials, a small instruction booklet, and a small bottle of liquid.</p>
E	SCIENCE TALENT	 <p>The top photo shows the 'SCIENCE TALENT' product box, which is blue and features various science-related illustrations. The middle photo shows the contents of the kit, including numerous small packets of materials and a small instruction booklet. The bottom photo shows a clear glass dish, likely used for one of the experiments.</p>



Specimen Description	
001	Purple seed crystal(A)
002	Green seed crystal (A)
003	Yellow seed crystal (A)
004	Purple crystal powder (A)
005	Green crystal powder(A)
006	Yellow crystal powder (A)
007	Transparent plastic (measuring cup/ bowl/ magnifying glass/bottle/water tank/funnel) (A/B/C/D/E)
008	Transparent plastic (A/ culture dish)
009	Black coating (on culture dish/on water tank) (A)
010	Wood(A/B/C/D)
011	Beige bristles(B)
012	Black fleece fabric with white coating (B)
013	Black rope(B)
014	Blue gypsum(B)
015	Obsidian (B)
016	Amethyst (B)
017	Rose quartz(B)
018	Citrine(B)
019	Fluorite (B)
020	Moonstone (B)
021	Scoria (B)
022	Colorful sticker(C)
023	Colorful paper(C)
024	Blue crystal(C)
025	Yellow crystal(C)
026	Green crystal(C)
027	Red crystal(C)
028	White plastic (C/E lid of bottle)
029	Transparent liquid(C)
030	Colorful sticker (C/on bottle body)
031	Beige yellow ribbon(D)
032	White rope(D)
033	Semi-transparent soft plastic(D)
034	Transparent soap base(D)
035	Transparent glass (bottle, D)
036	Colorful sticker(D)
037	White plasticine (E)
038	Transparent soft plastic straw(E)
039	White wick (candle, E)
040	White powder (baking soda, E)
041	White powder (citric acid, E)
042	Color-changing flowers(E)
043	Blue wax (candle, E)
044	White paper with colorful printing (inside page, E)
045	Yellow soft plastic (balloon, E)
046	White powder (absorbent resin, E)



Specimen Description	
047	White material (sodium alginate, E)
048	White powder (calcium lactate powder, E)
049	Transparent plastic (body of test tube/string stick/petri dish, E)
050	Orange textile (fuzzy stick, E)
051	Transparent soft thin string(E)
052	Transparent soft plastic (gloves, E)
053	Colorful paper with transparent film (cover, E)
054	Silvery metal (iron sheet, E)
055	White paper (filter paper, E)
056	Green liquid(E)
057	Green plastic (lid, E)
058	Yellow plastic (lid, E)



Test Results

1. EN 71-1:2014+A1:2018 Mechanical and Physical Properties

For sample A-C

Clause	Requirement	Evaluation
4	General Requirements	
4.1	Material cleanliness	P
4.7	Edges	P
4.8	Points and metallic wires	P
6	Packaging	P (for sample C)
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P

Abbreviation: P=pass;**Remark:** Labelling requirement (Washing/Cleaning instruction, CE marking, Importer / Manufacturer name and address, Product identification) according to the Directive 2009/48/EC-Safety of toys.

	Result (On Product)	Result (On Package)
CE marking	Absent	Present (dimension: 8 mm)
Manufacturer's Name and Address	Absent	Present
Importer's Name and Address	Absent	Absent
Product Identification	Absent	Present

The following marking shall be fulfilled.

-The CE marking is subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008. The CE marking shall be affixed visibly, legibly and indelibly to the toy, to an affixed label to the packaging, or to the counter display.

-The manufacturer's name and address, importer's name and address in the EU shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.

-The toys shall 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.

Note: Only applicable clauses were shown.



For sample D-E

Clause	Requirement	Evaluation
4	General Requirements	
4.1	Material cleanliness	P
4.2	Assembly	P
4.6	Expanding Materials	P
4.7	Edges	P
4.8	Points and metallic wires	P
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	P
4.12	Balloons	P
4.14	Enclosures	P
4.21	Toys containing a non-electrical heat source	P
4.22	Small balls	P
6	Packaging	P
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	P

Abbreviation: P=pass;

Remark: Labelling requirement (Washing/Cleaning instruction, CE marking, Importer / Manufacturer name and address, Product identification) according to the Directive 2009/48/EC-Safety of toys.

	Result (On Product)	Result (On Package)
CE marking	Absent	Present (dimension: more than 5 mm)
Manufacturer's Name and Address	Absent	Present
Importer's Name and Address	Absent	Absent
Product Identification	Absent	Present

The following marking shall be fulfilled.

-The CE marking is subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008. The CE marking shall be affixed visibly, legibly and indelibly to the toy, to an affixed label to the packaging, or to the counter display.

-The manufacturer's name and address, importer's name and address in the EU shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.

-The toys shall 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.

Note: Only applicable clauses were shown.



2. EN 71-2:2011+A1:2014 Flammability

For sample A-C

Clause	Requirement	Evaluation
4.1	General Requirement	P

Abbreviation: P=pass;

Note: Only applicable clauses were shown.

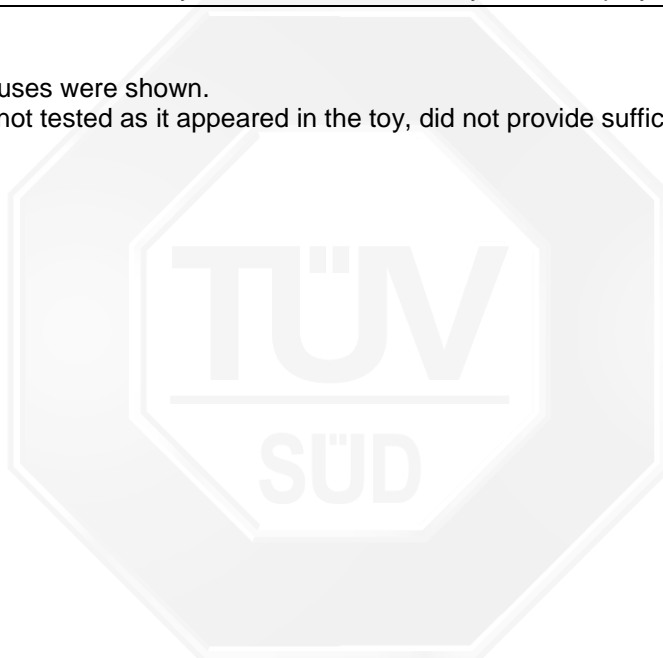
For sample D-E

Clause	Requirement	Evaluation
4.1	General Requirement	P
4.3	Toy disguise costumes and toys intended to be worn by a child in play	See remark

Abbreviation: P=pass;

Note: Only applicable clauses were shown.

Remark: The Glove was not tested as it appeared in the toy, did not provide sufficient material for testing.





3. EN 71-3:2019 Migration of certain elements

Test with reference to EN 71-3:2019

Test Item	Limit in dry, brittle, powder like or pliable toy materials [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]					
			004	005	006	034	037	040
Soluble Aluminum	2250	5.00	8.50	<5.00	<5.00	<20.00	42.9	<5.00
Soluble Antimony	45	5.00	<5.00	<5.00	<5.00	<20.00	<5.00	<5.00
Soluble Arsenic	3.8	0.25	<0.25	<0.25	<0.25	<1.00	<0.25	<0.25
Soluble Barium	1500	5.00	<5.00	<5.00	<5.00	<20.00	<5.00	<5.00
Soluble Boron	1200	5.00	68.5	45.4	73.5	<20.00	5.95	59.0
Soluble Cadmium	1.3	0.25	<0.25	<0.25	<0.25	<1.00	<0.25	<0.25
Soluble Chromium III	37.5	0.005	1.85	0.800	1.65	0.202	0.070	1.10
Soluble Chromium VI	0.02	0.005	<0.005	<0.005	<0.005	<0.02	<0.005	<0.005
Soluble Cobalt	10.5	0.25	<0.25	<0.25	<0.25	<1.00	<0.25	<0.25
Soluble Copper	622.5	5.00	<5.00	<5.00	<5.00	<20.00	<5.00	<5.00
Soluble Lead	2	0.25	<0.25	<0.25	<0.25	<1.00	<0.25	<0.25
Soluble Manganese	1200	5.00	<5.00	<5.00	<5.00	<20.00	13.4	<5.00
Soluble Mercury	7.5	0.25	<0.25	<0.25	<0.25	<1.00	<0.25	<0.25
Soluble Nickel	75	5.00	<5.00	<5.00	<5.00	<20.00	<5.00	<5.00
Soluble Selenium	37.5	5.00	<5.00	<5.00	<5.00	<20.00	<5.00	<5.00
Soluble Strontium	4500	5.00	<5.00	<5.00	<5.00	<20.00	117	<5.00
Soluble Tin	15000	0.05	<0.05	<0.05	<0.05	<0.20	<0.05	2.60
Organic Tin	0.9	0.13	<0.13	<0.13	<0.13	<0.50	<0.13	<0.13
Soluble Zinc	3750	5.00	<5.00	<5.00	<5.00	46.9	13.0	<5.00
Conclusion			Pass	Pass	Pass	Pass	Pass	Pass

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Test Item	Limit in dry, brittle, powder like or pliable toy materials [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]				
			041	043	046	047	048
Soluble Aluminum	2250	5.00	72.5	30.7	141	14.3	<5.00
Soluble Antimony	45	5.00	<5.00	<20.00	<5.00	<5.00	<5.00
Soluble Arsenic	3.8	0.25	<0.25	<1.00	<0.25	<0.25	<0.25
Soluble Barium	1500	5.00	<5.00	<20.00	<5.00	<5.00	<5.00
Soluble Boron	1200	5.00	22.9	<20.00	<5.00	<5.00	9.85
Soluble Cadmium	1.3	0.25	<0.25	<1.00	<0.25	<0.25	<0.25
Soluble Chromium III	37.5	0.005	0.250	<0.02	0.020	0.151	0.151
Soluble Chromium VI	0.02	0.005	<0.005	<0.02	<0.005	<0.005	<0.005
Soluble Cobalt	10.5	0.25	<0.25	<1.00	<0.25	<0.25	<0.25
Soluble Copper	622.5	5.00	<5.00	<20.00	<5.00	<5.00	<5.00
Soluble Lead	2	0.25	<0.25	<1.00	<0.25	<0.25	<0.25
Soluble Manganese	1200	5.00	<5.00	<20.00	<5.00	<5.00	27.5
Soluble Mercury	7.5	0.25	<0.25	<1.00	<0.25	<0.25	<0.25
Soluble Nickel	75	5.00	<5.00	<20.00	<5.00	<5.00	<5.00
Soluble Selenium	37.5	5.00	<5.00	<20.00	<5.00	<5.00	<5.00
Soluble Strontium	4500	5.00	<5.00	<20.00	<5.00	11.1	<5.00
Soluble Tin	15000	0.05	3.00	<0.20	<0.05	<0.05	55.3
Organic Tin	0.9	0.13	<0.13	<0.50	<0.13	<0.13	<0.13
Soluble Zinc	3750	5.00	12.6	<20.00	<5.00	7.26	<5.00
Conclusion			Pass	Pass	Pass	Pass	Pass

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Test Item	Limit in liquid or sticky toy materials [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]	
			029	056
Soluble Aluminum	560	5.00	230	131
Soluble Antimony	11.3	5.00	<5.00	<5.00
Soluble Arsenic	0.9	0.25	<0.25	<0.25
Soluble Barium	375	5.00	<5.00	90.9
Soluble Boron	300	5.00	<5.00	<5.00
Soluble Cadmium	0.3	0.25	<0.25	<0.25
Soluble Chromium III	9.4	0.005	0.200	0.045
Soluble Chromium VI	0.005	0.005	<0.005	<0.005
Soluble Cobalt	2.6	0.25	<0.25	<0.25
Soluble Copper	156	5.00	<5.00	25.8
Soluble Lead	0.5	0.25	<0.25	<0.25
Soluble Manganese	300	5.00	<5.00	<5.00
Soluble Mercury	1.9	0.25	<0.25	<0.25
Soluble Nickel	18.8	5.00	<5.00	<5.00
Soluble Selenium	9.4	5.00	<5.00	<5.00
Soluble Strontium	1125	5.00	<5.00	<5.00
Soluble Tin	3750	0.05	0.300	0.086
Organic Tin	0.2	0.13	<0.13	<0.13
Soluble Zinc	938	5.00	<5.00	29.7
Conclusion			Pass	Pass

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Test Item	Limit in scraped-off toy materials [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]					
			001	002	003	007	008	009
Soluble Aluminum	28130	5.00	19.5	22.2	40.6	<5.00	<5.00	NA
Soluble Antimony	560	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Soluble Arsenic	47	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Soluble Barium	18750	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Soluble Boron	15000	5.00	6.45	5.75	<5.00	<5.00	<5.00	NA
Soluble Cadmium	17	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Soluble Chromium III	460	0.04	0.250	0.200	0.200	<0.04	<0.04	NA
Soluble Chromium VI	0.053	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	NA
Soluble Cobalt	130	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Soluble Copper	7700	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Soluble Lead	23	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Soluble Manganese	15000	5.00	5.05	7.55	<5.00	<5.00	<5.00	NA
Soluble Mercury	94	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Soluble Nickel	930	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Soluble Selenium	460	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Soluble Strontium	56000	5.00	69.5	50.0	109	<5.00	<5.00	NA
Soluble Tin	180000	3.00	<3.00	<3.00	<3.00	<3.00	<3.00	NA
Organic Tin	12	7.50	<7.50	<7.50	<7.50	<7.50	<7.50	NA
Soluble Zinc	46000	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Conclusion			Pass	Pass	Pass	Pass	Pass	-

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Test Item	Limit in scraped-off toy materials [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]					
			010	011	012	013	014	015
Soluble Aluminum	28130	5.00	<5.00	23.2	128	<5.00	73.0	<5.00
Soluble Antimony	560	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Arsenic	47	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Barium	18750	5.00	16.1	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Boron	15000	5.00	<5.00	<5.00	<5.00	<5.00	9.05	<5.00
Soluble Cadmium	17	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Chromium III	460	0.04	<0.04	<0.04	0.100	<0.04	1.05	<0.04
Soluble Chromium VI	0.053	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Soluble Cobalt	130	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Copper	7700	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Lead	23	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Manganese	15000	5.00	45.8	<5.00	<5.00	<5.00	21.5	<5.00
Soluble Mercury	94	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Nickel	930	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Selenium	460	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Strontium	56000	5.00	<5.00	<5.00	<5.00	<5.00	104	<5.00
Soluble Tin	180000	3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Organic Tin	12	7.50	<7.50	<7.50	<7.50	<7.50	<7.50	<7.50
Soluble Zinc	46000	5.00	22.6	38.4	<5.00	<5.00	<5.00	<5.00
Conclusion			Pass	Pass	Pass	Pass	Pass	Pass

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Test Item	Limit in scraped-off toy materials [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]					
			016	017	018	019	020	021
Soluble Aluminum	28130	5.00	7.50	<5.00	8.65	<5.00	<5.00	121
Soluble Antimony	560	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Arsenic	47	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Barium	18750	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Boron	15000	5.00	<5.00	<5.00	25.8	<5.00	<5.00	<5.00
Soluble Cadmium	17	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Chromium III	460	0.04	0.140	0.150	0.150	<0.04	0.065	0.150
Soluble Chromium VI	0.053	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Soluble Cobalt	130	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Copper	7700	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	6.15
Soluble Lead	23	5.00	<5.00	<5.00	8.20	<5.00	<5.00	<5.00
Soluble Manganese	15000	5.00	<5.00	<5.00	<5.00	12.6	<5.00	29.0
Soluble Mercury	94	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Nickel	930	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Selenium	460	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Strontium	56000	5.00	<5.00	<5.00	<5.00	1220	19.6	7.25
Soluble Tin	180000	3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Organic Tin	12	7.50	<7.50	<7.50	<7.50	<7.50	<7.50	<7.50
Soluble Zinc	46000	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Conclusion			Pass	Pass	Pass	Pass	Pass	Pass

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Test Item	Limit in scraped-off toy materials [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]					
			022	023	024	025	026	027
Soluble Aluminum	28130	5.00	<5.00	<5.00	445	215	303	299
Soluble Antimony	560	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Arsenic	47	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Barium	18750	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Boron	15000	5.00	<5.00	<5.00	<5.00	<5.00	5.45	<5.00
Soluble Cadmium	17	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Chromium III	460	0.04	<0.04	0.150	0.650	0.300	0.350	0.350
Soluble Chromium VI	0.053	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Soluble Cobalt	130	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Copper	7700	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Lead	23	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Manganese	15000	5.00	<5.00	<5.00	45.4	9.75	36.9	34.1
Soluble Mercury	94	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Nickel	930	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Selenium	460	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Strontium	56000	5.00	<5.00	25.0	38.2	18.2	23.0	22.0
Soluble Tin	180000	3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Organic Tin	12	7.50	<7.50	<7.50	<7.50	<7.50	<7.50	<7.50
Soluble Zinc	46000	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Conclusion			Pass	Pass	Pass	Pass	Pass	Pass

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No.: 70.452.20.10500.01R1

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Greater China

Test Item	Limit in scraped-off toy materials [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]					
			028	030	031	032	033	035
Soluble Aluminum	28130	5.00	<5.00	545	<5.00	<5.00	<5.00	<5.00
Soluble Antimony	560	5.00	<5.00	<5.00	8.42	<5.00	<5.00	<5.00
Soluble Arsenic	47	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Barium	18750	5.00	<5.00	5.35	<5.00	<5.00	<5.00	<5.00
Soluble Boron	15000	5.00	<5.00	18.3	<5.00	<5.00	<5.00	<5.00
Soluble Cadmium	17	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Chromium III	460	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Soluble Chromium VI	0.053	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Soluble Cobalt	130	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Copper	7700	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Lead	23	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Manganese	15000	5.00	<5.00	12.2	<5.00	<5.00	<5.00	<5.00
Soluble Mercury	94	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Nickel	930	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Selenium	460	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Strontium	56000	5.00	<5.00	12.6	<5.00	<5.00	<5.00	<5.00
Soluble Tin	180000	3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Organic Tin	12	7.50	<7.50	<7.50	<7.50	<7.50	<7.50	<7.50
Soluble Zinc	46000	5.00	<5.00	9.60	6.51	9.62	<5.00	<5.00
Conclusion			Pass	Pass	Pass	Pass	Pass	Pass

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Greater China

Test Item	Limit in scraped-off toy materials [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]						
			036	038	039	042	044	045	049
Soluble Aluminum	28130	5.00	100	<5.00	<5.00	53.0	12.7	17.0	13.5
Soluble Antimony	560	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Arsenic	47	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Barium	18750	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Boron	15000	5.00	<5.00	<5.00	<5.00	26.1	<5.00	<5.00	<5.00
Soluble Cadmium	17	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Chromium III	460	0.04	0.070	<0.04	<0.04	0.150	0.100	<0.04	<0.04
Soluble Chromium VI	0.053	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Soluble Cobalt	130	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Copper	7700	5.00	<5.00	<5.00	<5.00	10.4	<5.00	<5.00	<5.00
Soluble Lead	23	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Manganese	15000	5.00	<5.00	<5.00	<5.00	34.5	14.4	<5.00	<5.00
Soluble Mercury	94	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Nickel	930	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Selenium	460	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Strontium	56000	5.00	<5.00	<5.00	<5.00	6.55	79.0	<5.00	<5.00
Soluble Tin	180000	3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Organic Tin	12	7.50	<7.50	<7.50	<7.50	<7.50	<7.50	<7.50	<7.50
Soluble Zinc	46000	5.00	<5.00	7.05	<5.00	79.0	<5.00	533	21.8
Conclusion			Pass	Pass	Pass	Pass	Pass	Pass	Pass

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Test Item	Limit in scraped-off toy materials [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]					
			050	051	052	054	055	057
Soluble Aluminum	28130	5.00	26.6	<5.00	8.95	<5.00	<5.00	5.45
Soluble Antimony	560	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Arsenic	47	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Barium	18750	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Boron	15000	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Cadmium	17	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Chromium III	460	0.04	0.080	<0.04	<0.04	0.082	0.080	<0.04
Soluble Chromium VI	0.053	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Soluble Cobalt	130	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Copper	7700	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Lead	23	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Manganese	15000	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Mercury	94	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Nickel	930	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Selenium	460	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Strontium	56000	5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Soluble Tin	180000	3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Organic Tin	12	7.50	<7.50	<7.50	<7.50	<7.50	<7.50	<7.50
Soluble Zinc	46000	5.00	85.0	<5.00	54.0	<5.00	360	81.0
Conclusion			Pass	Pass	Pass	Pass	Pass	Pass

Test Report

No.: 70.452.20.10500.01R1

Dated: 2020-06-16



Greater China

Test Item	Limit in scraped-off toy materials [mg/kg]	MDL [mg/kg]	Result(s) [mg/kg]	
			058	053
Soluble Aluminum	28130	5.00	<5.00	1360
Soluble Antimony	560	5.00	<5.00	<5.00
Soluble Arsenic	47	5.00	<5.00	<5.00
Soluble Barium	18750	5.00	<5.00	<5.00
Soluble Boron	15000	5.00	<5.00	<5.00
Soluble Cadmium	17	5.00	<5.00	<5.00
Soluble Chromium III	460	0.04	<0.04	0.151
Soluble Chromium VI	0.053	0.04	<0.04	<0.04
Soluble Cobalt	130	5.00	<5.00	<5.00
Soluble Copper	7700	5.00	<5.00	<5.00
Soluble Lead	23	5.00	<5.00	<5.00
Soluble Manganese	15000	5.00	<5.00	<5.00
Soluble Mercury	94	5.00	<5.00	<5.00
Soluble Nickel	930	5.00	<5.00	<5.00
Soluble Selenium	460	5.00	<5.00	<5.00
Soluble Strontium	56000	5.00	<5.00	44.3
Soluble Tin	180000	3.00	<3.00	<3.00
Organic Tin	12	7.50	<7.50	<7.50
Soluble Zinc	46000	5.00	12.0	10.7
Conclusion			Pass	Pass

- Remark:
1. NA = With reference to EN 71-3:2019, test portions where less than 10mg of material available are not tested.
 2. For samples 034,043, the preparation of de-waxing step was performed.

- End of Test Report -