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Consumer Testing Services
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CERTIFICATE OF COMPLIANCE

SGS United Kingdom A UKAS Accredited Test House

Client Name : HAPPY ARTS&CRAFTS(NINGBO)CO.,
LTD HAPE INTERNATIONAL (NINGBO) LTD
Test Report Number : T52210260187TY
Reference Number : WSZ-UK5221260025TY
Item Number : E1067, E1069, E1071, E1068, E1070
Client Reference Information : E1067A, E1069A, E1071A, E1068A, E1070A
Sample Description : E1067 SPONGE PAINTING FUN
E1069 COLOR MIX PAINTING
E1071 OODLESOFDOODLESSCRATCHING
E1068 CHALKS AND STENCILS ART
E1070 LETTERS AND NUMBERS TRACING
Date of Issue : JUL 15, 2022

Applied Standards

- | | Result |
|---|---------------|
| 1) EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties | <u>Pass</u> |
| 2) EN 71-2:2011+A1:2014 – Safety of toys – Part 2: Flammability | <u>Pass</u> |
| 3) EN 71-2:2020 – Safety of toys – Part 2: Flammability | <u>Pass</u> |
| 4) Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 – Migration of certain elements | <u>Pass</u> |
| 5) Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements | <u>Pass</u> |

This certificate of compliance must not be used without the attached reference test report.

Qu Ping, Kiky
Dept. Manager
SGS SHENZHEN



Nina Pratt
Senior Technologist
SGS UNITED KINGDOM LTD.

The report attached to this certificate has been checked and approved by SGS United Kingdom Ltd who holds a copy of the relevant documentation in its office. This certificate confirms test results by another SGS entity without SGS UK Ltd having done the testing itself. This Certificate is issued by SGS UK Ltd. under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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HAPPY ARTS&CRAFTS(NINGBO)CO.,
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9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY,
BEILUN, NINGBO, CHINA PC:315800

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

E1067 SPONGE PAINTING FUN
E1069 COLOR MIX PAINTING
E1071 OODLESOFDOODLESSCRATCHING
E1068 CHALKS AND STENCILS ART
E1070 LETTERS AND NUMBERS TRACING

Item No.	: E1067, E1069, E1071, E1068, E1070
Country of Origin	: CHINA
Country of Destination	: GLOBAL
Client Reference Information	: E1067A, E1069A, E1071A, E1068A, E1070A
Labeled Age Grading	: 3Y+/4Y+
Requested Age Grading	: 3Y+/4Y+

Age Group Assessed by SGS As Per Age	: OVER 3 YEARS
Guideline	
Age Group Applied in Testing	: OVER 3 YEARS
Sample Receiving Date	: APR 06, 2022
Last Submission Sample Date	: MAY 30,2022
Testing Period	: APR 06, 2022 TO JUL 15, 2022



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Test Requested		Conclusion
1.	For compliance with the European standard on Safety of toys:-	--
	EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
	EN 71-2:2011+A1:2014 – Safety of toys – Part 2: Flammability	PASS
	EN 71-2: 2020 – Safety of toys – Part 2: Flammability	PASS
	Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys	SEE RESULT
	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 – Migration of certain elements (All conclusive testing)	PASS
	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements (All conclusive testing)	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

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



Huang Yao, Lucy
Section Head
CNAS Approved Signatories

Qu Ping, Kiky
Dept. Manager
CNAS Approved Signatories



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Result:

EUROPEAN STANDARD ON SAFETY OF TOYS

EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	N/A
4.3	Flexible plastics sheeting	N/A
4.4	Toy bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	N/A
4.10	Parts moving against each other:	
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving mechanisms	N/A
4.10.3	Hinges	N/A
4.10.4	Springs	Pass
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures:	
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A



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Clause	Description	Result
4.15	Toys intended to bear the mass of a child:	
4.15.1	Toys propelled by the child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toys scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yoyo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A
4.27	Flying toys	N/A
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)	N/A
5.1b	Torque test (Test method 8.3)	N/A
	Tension test (Test method 8.4)	N/A
	Drop test (Test method 8.5)	N/A
	Tip over test (Test method 8.6)	N/A
	Impact test (Test method 8.7)	N/A
	Compression test (Test method 8.8)	N/A
	Sharp edge (Test method 8.11)	N/A
	Sharp point (Test method 8.12)	N/A
	Tension test for magnets (Test method 8.34)	N/A
5.1c	Potential hazardous metal points and wires with a cross section of 2mm or less	N/A
5.1d	Large and bulky toys	N/A



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Clause	Description	Result
5.1e	Glued wooden toys and toys with glued on plastic decals	N/A
5.1f	The casing of toys intended for children too young to sit up unaided	N/A
5.1g	Foam toys and toys containing accessible foam components	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cable in toys	N/A
5.5	Liquid filled toys	N/A
5.6	Speed limitation of electrically driven toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be used fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	Pass*
	*Retest samples were submitted on May 30, 2022.	
7	Warnings, markings and instructions for use	
7.1	General Requirements	Pass
	Please note that for assessing the visibility and legibility of warnings CEN has introduced good practice in the informative Annex 33 by addressing the following aspects:	
	a) Emphasising the warning;	
	b) Contrast, background and colours;	
	c) Reflecting surfaces and obscuring material;	
	d) Font type;	
	e) Font size;	
	f) Logical direction of text.	
	For more details see EN 71-1	
7.2	Toys not intended for children under 36 months	Pass
	(Remark: The toy contains small parts. It is acceptable because appropriate warning is found on packaging.)	See Remark



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Clause	Description	Result
7.3	Latex Balloon	N/A
7.4	Aquatic toys	N/A
7.5	Functional Toys	N/A
7.6	Hazardous sharp functional edges and points	N/A
7.7	Projectiles	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy kites	N/A
7.10	Roller skates, inline skates and toy skateboards and certain other ride-on toys	N/A
7.11	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.12	Liquid filled teethingers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toys bicycle	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy scooters	N/A
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/electrical experimental sets	N/A
7.21	Toys with electrical cables exceeding 300 mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A
7.23	Toys intended to be attached to a cradle, cot or perambulator	N/A
7.24	Sledges with cords for pulling	N/A
7.25	Flying toys	N/A
7.26	Improvised projectiles	N/A

According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.

N/A = Not Applicable



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EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

Clause	Description	Result
4.1	General requirements	Pass
4.2.2	Beards, moustaches, wigs etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands or other flowing elements), which protrude 50mm or more from the surface of the toy	Not Applicable
4.2.3	Beards, moustaches, wigs etc. made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper, cloth strands or other flowing elements), which protrude less than 50mm from the surface of the toy	Not Applicable
4.2.4	Full or partial moulded head masks	Not Applicable
4.2.5	Flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses etc. and masks not covered by 4.2.4 which partially or fully cover the head (e.g. fabric and cardboard masks, eye masks, face masks), but excluding those items covered by 4.3	Not Applicable
4.3	Toy disguise costumes and toys intended to be worn by a child in play	Not Applicable
4.4	Toys intended to be entered by a child	Not Applicable
4.5	Soft filled toys	Not Applicable

Type of gas: Butane gas used in the test burner



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EN 71-2: 2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY
AS SPECIFIED IN EN 71-2: 2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

Clause	Description	Result
4.1	General requirements	<u>Pass</u>
4.2.2	Beards, moustaches, wigs, etc., made from pile or flowing elements which protrude 50 mm or more from the surface of the toy	<u>Not Applicable</u>
4.2.3	Beards, moustaches, wigs, etc., made from pile or flowing elements which protrude less than 50 mm from the surface of the toy	<u>Not Applicable</u>
4.2.4	Full or partial moulded head masks	<u>Not Applicable</u>
4.2.5	Toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, headdresses including upward protruding items and masks not covered by 4.2.4 which partially or fully cover the head (e.g. fabric and paperboard masks, eye masks, face masks), but excluding those items covered by 4.3	<u>Not Applicable</u>
4.3	Toy disguise costumes and toys intended to be worn by a child in play	<u>Not Applicable</u>
4.4	Toys intended to be entered by a child	<u>Not Applicable</u>
4.5	Soft filled toys	<u>Not Applicable</u>

Type of gas: Butane gas used in the test burner



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LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	--
CE mark	Present	Packaging
Importer's Name & Address	Present	Packaging
Manufacturer's Name & Address	Present	Packaging
Product ID	Present	Packaging

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soaked. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soaked washable."
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must 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.



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Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 – Migration of certain elements

Category I: Dry, brittle, powder-like or pliable toy material

Method: With reference to EN 71-3:2019. Analysis of general elements was performed by ICP-MS / Chromium (III) was obtained by calculation, chromium (VI) was analyzed by LC-ICP-MS or IC-UV-Vis / organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	1	2	3	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	110	ND	50	2250
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	1	45
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	0.5	3.8
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	1500
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	1200
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	0.1	1.3
Soluble Chromium ⁺ (Cr) (mg/kg)	0.066	0.114	0.148	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1.0	37.5
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.02
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	0.5	10.5
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	622.5
Soluble Lead (Pb) (mg/kg)	ND	1.0	ND	0.5	2.0
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	1200
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	0.5	7.5
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	75
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	5	37.5
Soluble Strontium (Sr) (mg/kg)	298	499	237	50	4500
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	0.15	15000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	0.9
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	3750



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	4	5	6	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	104	323	50	2250
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	1	45
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	0.5	3.8
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	1500
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	1200
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	0.1	1.3
Soluble Chromium ⁺ (Cr) (mg/kg)	0.178	0.087	0.612	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1.0	37.5
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.02
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	0.5	10.5
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	622.5
Soluble Lead (Pb) (mg/kg)	ND	0.9	1.3	0.5	2.0
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	1200
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	0.5	7.5
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	75
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	5	37.5
Soluble Strontium (Sr) (mg/kg)	219	487	107	50	4500
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	0.15	15000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	0.9
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	3750



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	7	8	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	109	108	50	2250
Soluble Antimony (Sb) (mg/kg)	ND	ND	1	45
Soluble Arsenic (As) (mg/kg)	ND	ND	0.5	3.8
Soluble Barium (Ba) (mg/kg)	ND	ND	50	1500
Soluble Boron (B) (mg/kg)	ND	ND	50	1200
Soluble Cadmium (Cd) (mg/kg)	ND	ND	0.1	1.3
Soluble Chromium ⁺ (Cr) (mg/kg)	0.106	0.099	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1.0	37.5
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.010	0.02
Soluble Cobalt (Co) (mg/kg)	ND	ND	0.5	10.5
Soluble Copper (Cu) (mg/kg)	ND	ND	50	622.5
Soluble Lead (Pb) (mg/kg)	0.9	0.9	0.5	2.0
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	1200
Soluble Mercury (Hg) (mg/kg)	ND	ND	0.5	7.5
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	75
Soluble Selenium (Se) (mg/kg)	ND	ND	5	37.5
Soluble Strontium (Sr) (mg/kg)	492	493	50	4500
Soluble Tin (Sn) (mg/kg)	ND	ND	0.15	15000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	0.9
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	3750



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Specimen Description:

1. Yellow chalk (E1068)
2. Blue chalk (E1068)
3. Light green chalk (E1068)
4. Pink chalk (E1068)
5. Green chalk (E1068)
6. Dull pink chalk (E1068)
7. White chalk (E1068)
8. Orange chalk (E1068)

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - * Soluble Chromium is not restricted by EN 71-3:2019, results shown only for reference



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Category II: Liquid or Sticky toy material

Method: With reference to EN 71-3:2019. Analysis of general elements was performed by ICP-MS / Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis or LC-ICP-MS / organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	1	2	3	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	560
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	1.0	11.3
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	0.4	0.9
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	375
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	300
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	0.1	0.3
Soluble Chromium* (Cr) (mg/kg)	ND	ND	0.036	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1.0	9.4
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.0025	0.005
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	0.5	2.6
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	156
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	0.2	0.5
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	300
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	0.5	1.9
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	9	18.8
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	4	9.4
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	1125
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	0.03	3750
Soluble Organic Tin -- (mg/kg)	0.06	ND	ND	--	0.2
Soluble Zinc (Zn) (mg/kg)	ND	63	ND	50	938



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	4	5	6	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	560
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	1.0	11.3
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	0.4	0.9
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	375
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	300
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	0.1	0.3
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1.0	9.4
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.0025	0.005
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	0.5	2.6
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	156
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	0.2	0.5
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	300
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	0.5	1.9
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	9	18.8
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	4	9.4
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	1125
Soluble Tin (Sn) (mg/kg)	0.04	ND	ND	0.03	3750
Soluble Organic Tin -- (mg/kg)	0.07	0.06	0.04	--	0.2
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	938



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	7	8	9	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	386	50	560
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	1.0	11.3
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	0.4	0.9
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	375
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	300
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	0.1	0.3
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	1.263	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1.263	1.0	9.4
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.0025	0.005
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	0.5	2.6
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	156
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	0.2	0.5
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	300
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	0.5	1.9
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	9	18.8
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	4	9.4
Soluble Strontium (Sr) (mg/kg)	ND	ND	186	50	1125
Soluble Tin (Sn) (mg/kg)	ND	0.04	ND	0.03	3750
Soluble Organic Tin -- (mg/kg)	0.05	0.08	ND	--	0.2
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	938



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	10	11	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	133	ND	50	560
Soluble Antimony (Sb) (mg/kg)	ND	ND	1.0	11.3
Soluble Arsenic (As) (mg/kg)	ND	ND	0.4	0.9
Soluble Barium (Ba) (mg/kg)	ND	ND	50	375
Soluble Boron (B) (mg/kg)	ND	ND	50	300
Soluble Cadmium (Cd) (mg/kg)	ND	ND	0.1	0.3
Soluble Chromium ⁺ (Cr) (mg/kg)	1.265	ND	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	1.265	ND	1.0	9.4
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.0025	0.005
Soluble Cobalt (Co) (mg/kg)	ND	ND	0.5	2.6
Soluble Copper (Cu) (mg/kg)	ND	ND	50	156
Soluble Lead (Pb) (mg/kg)	ND	ND	0.2	0.5
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	300
Soluble Mercury (Hg) (mg/kg)	ND	ND	0.5	1.9
Soluble Nickel (Ni) (mg/kg)	ND	ND	9	18.8
Soluble Selenium (Se) (mg/kg)	ND	ND	4	9.4
Soluble Strontium (Sr) (mg/kg)	136	ND	50	1125
Soluble Tin (Sn) (mg/kg)	ND	ND	0.03	3750
Soluble Organic Tin -- (mg/kg)	ND	ND	--	0.2
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	938



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	12	13	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	195	50	560
Soluble Antimony (Sb) (mg/kg)	ND	ND	1.0	11.3
Soluble Arsenic (As) (mg/kg)	ND	ND	0.4	0.9
Soluble Barium (Ba) (mg/kg)	ND	ND	50	375
Soluble Boron (B) (mg/kg)	ND	ND	50	300
Soluble Cadmium (Cd) (mg/kg)	ND	ND	0.1	0.3
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	1.455	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	1.455	1.0	9.4
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.0025	0.005
Soluble Cobalt (Co) (mg/kg)	ND	ND	0.5	2.6
Soluble Copper (Cu) (mg/kg)	ND	ND	50	156
Soluble Lead (Pb) (mg/kg)	ND	ND	0.2	0.5
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	300
Soluble Mercury (Hg) (mg/kg)	ND	ND	0.5	1.9
Soluble Nickel (Ni) (mg/kg)	ND	ND	9	18.8
Soluble Selenium (Se) (mg/kg)	ND	ND	4	9.4
Soluble Strontium (Sr) (mg/kg)	ND	174	50	1125
Soluble Tin (Sn) (mg/kg)	ND	ND	0.03	3750
Soluble Organic Tin -- (mg/kg)	ND	ND	--	0.2
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	938



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Specimen Description:

1. Green ink (ZE1070A)
2. Blue ink (ZE1070A)
3. Dark blue ink (ZE1070A)
4. Black ink (ZE1070A)
5. Red ink (ZE1070A)
6. Pink ink (ZE1070A)
7. Yellow ink (ZE1070A)
8. Orange ink (ZE1070A)
9. Blue paint (E1067, E1069)
10. Yellow paint (E1069)
11. Yellow paint (E1067)
12. Blue paint (E1067)
13. Red paint (E1067, E1069) (Submitted on May 24, 2022)

Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)			MDL (mg/kg)
	1	2	3	
Dimethyl tin (DMT)	0.06	0.07	0.06	0.03
Methyl tin (MeT)	ND	ND	ND	0.03
Di-n-propyl tin (DProT)	ND	ND	ND	0.03
Butyl tin (BuT)	ND	ND	ND	0.03
Dibutyl tin (DBT)	ND	ND	ND	0.03
Tributyl tin (TBT)	ND	ND	ND	0.03
n-Octyl tin (MOT)	ND	ND	ND	0.03
Tetrabutyl tin (TeBT)	ND	ND	ND	0.03
Diphenyl tin (DPhT)	ND	ND	ND	0.03
Di-n-octyl tin (DOT)	ND	ND	ND	0.03
Triphenyl tin (TPhT)	ND	ND	ND	0.03



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Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)			MDL (mg/kg)
	4	5	6	
Dimethyl tin (DMT)	0.04	0.05	0.08	0.03
Methyl tin (MeT)	ND	ND	ND	0.03
Di-n-propyl tin (DProT)	ND	ND	ND	0.03
Butyl tin (BuT)	ND	ND	ND	0.03
Dibutyl tin (DBT)	ND	ND	ND	0.03
Tributyl tin (TBT)	ND	ND	ND	0.03
n-Octyl tin (MOT)	ND	ND	ND	0.03
Tetrabutyl tin (TeBT)	ND	ND	ND	0.03
Diphenyl tin (DPhT)	ND	ND	ND	0.03
Di-n-octyl tin (DOT)	ND	ND	ND	0.03
Triphenyl tin (TPhT)	ND	ND	ND	0.03

Specimen Description:

1. Green ink (ZE1070A)
2. Black ink (ZE1070A)
3. Red ink (ZE1070A)
4. Pink ink (ZE1070A)
5. Yellow ink (ZE1070A)
6. Orange ink (ZE1070A)

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - + Soluble Chromium is not restricted by EN 71-3:2019, results shown only for reference
 - De-waxing was applied (excluding analysis of organic tin) on test specimen No. 1-No.8



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Category III: Scraped-off toy material

Method: With reference to EN 71-3:2019. Analysis of general elements was performed by ICP-OES / Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis or LC-ICP-MS / organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	1	2	3	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium* (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	4	5	6	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.3	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	7	8	9	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	10	11	12	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	13	14	15	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	236	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	55	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	16	17	18	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	19	20	21	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	559	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	22	23	24	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	350	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	60	123	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	25	26	27	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	28	29	30	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	372	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	69	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	54	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	31	32	33	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	34	35	36	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	37	38	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	39	40	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	13	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000



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Specimen Description:

1. Off-white plastic sheet (PET) (Tray) (E1067)
2. Red plastic (PE) (Handle) (E1067)
3. Red sponge (Brush) (E1067)
4. Cream plastic (Tube) (E1067)
5. Blue plastic (PE) (Handle) (E1067)
6. Blue sponge (Brush) (E1067)
7. Yellow sponge (Brush) (E1067)
8. Cream wood (Brush, pen) (E1067, E1069, E1071)
9. Translucent green plastic sheet (PP) (Form board) (E1067, ZE1070A)
10. Translucent orange plastic sheet (PP) (Form board) (E1067)
11. White plastic (PE) (Lid) (E1067, E1069)
12. Transparent plastic sheet (Bottle) (E1067, E1069)
13. White paper sheet w/ multi-color printing (Artbook) (E1067, E1069, ZE1070A)
14. Dark red plastic (Clamp) (E1067, E1069, ZE1070A)
15. Bright white plastic (PP) (Tray) (E1069, ZE1070A)
16. White plastic sheet (Card) (E1069)
17. Brown plastic strip (Brush) (E1069)
18. Light brown plastic strip (Brush) (E1069)
19. Translucent light green plastic sheet (PP) (Form board) (E1071)
20. Transparent plastic film (Card) (E1071)
21. White surfaced cream paper card (Card) (E1071)
22. Black coating on plastic film (Card) (E1071)
23. White coating on plastic film (Card) (E1071)
24. Translucent red plastic sheet (PP) (Form board) (E1068)
25. Dull red plastic (PP) (Chalk clamp) (E1068)



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Specimen Description:

26. Yellow plastic (PP) (Chalk clamp) (E1068)
27. Pale blue plastic (PP) (Chalk clamp) (E1068)
28. White adhesive paper tape w/ red printing (Tape) (E1068, ZE1070A)
29. White paper (Tape) (E1068, ZE1070A)
30. Translucent light red plastic sheet (PP) (Form board) (ZE1070A)
31. Green plastic (PP) (Pen) (ZE1070A)
32. Pink plastic (PP) (Pen) (ZE1070A)
33. Black plastic (PP) (Pen) (ZE1070A)
34. Light blue plastic (PP) (Pen) (ZE1070A)
35. Dark blue plastic (PP) (Pen) (ZE1070A)
36. Red plastic (PP) (Pen) (ZE1070A)
37. Orange plastic (PP) (Pen) (ZE1070A)
38. Yellow plastic (PP) (Pen) (ZE1070A)
39. White felt (Pen) (ZE1070A)
40. White fiber (Nib) (ZE1070A)

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - + Soluble Chromium is not restricted by EN 71-3:2019, results shown only for reference

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN 71-3:2019.

Transparent dry glue (Fastener) (E1067)

Yellow, green, blue, purple, red, orange coating on plastic sheet (Card) (E1069)



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Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019+A1:2021 – Migration of certain elements

Category I: Dry, brittle, powder-like or pliable toy material

Method: With reference to EN 71-3:2019+A1:2021. Analysis of general elements was performed by ICP-MS / Chromium (III) was obtained by calculation, chromium (VI) was analyzed by LC-ICP-MS or IC-UV-Vis / organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	1	2	3	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	110	ND	50	2250
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	1	45
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	0.5	3.8
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	1500
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	1200
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	0.1	1.3
Soluble Chromium ⁺ (Cr) (mg/kg)	0.066	0.114	0.148	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1.0	37.5
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.02
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	0.5	10.5
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	622.5
Soluble Lead (Pb) (mg/kg)	ND	1.0	ND	0.5	2.0
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	1200
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	0.5	7.5
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	75
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	5	37.5
Soluble Strontium (Sr) (mg/kg)	298	499	237	50	4500
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	0.15	15000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	0.9
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	3750



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	4	5	6	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	104	323	50	2250
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	1	45
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	0.5	3.8
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	1500
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	1200
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	0.1	1.3
Soluble Chromium ⁺ (Cr) (mg/kg)	0.178	0.087	0.612	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1.0	37.5
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.02
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	0.5	10.5
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	622.5
Soluble Lead (Pb) (mg/kg)	ND	0.9	1.3	0.5	2.0
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	1200
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	0.5	7.5
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	75
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	5	37.5
Soluble Strontium (Sr) (mg/kg)	219	487	107	50	4500
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	0.15	15000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	0.9
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	3750



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	7	8	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	109	108	50	2250
Soluble Antimony (Sb) (mg/kg)	ND	ND	1	45
Soluble Arsenic (As) (mg/kg)	ND	ND	0.5	3.8
Soluble Barium (Ba) (mg/kg)	ND	ND	50	1500
Soluble Boron (B) (mg/kg)	ND	ND	50	1200
Soluble Cadmium (Cd) (mg/kg)	ND	ND	0.1	1.3
Soluble Chromium ⁺ (Cr) (mg/kg)	0.106	0.099	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1.0	37.5
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.010	0.02
Soluble Cobalt (Co) (mg/kg)	ND	ND	0.5	10.5
Soluble Copper (Cu) (mg/kg)	ND	ND	50	622.5
Soluble Lead (Pb) (mg/kg)	0.9	0.9	0.5	2.0
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	1200
Soluble Mercury (Hg) (mg/kg)	ND	ND	0.5	7.5
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	75
Soluble Selenium (Se) (mg/kg)	ND	ND	5	37.5
Soluble Strontium (Sr) (mg/kg)	492	493	50	4500
Soluble Tin (Sn) (mg/kg)	ND	ND	0.15	15000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	0.9
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	3750



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Specimen Description:

1. Yellow chalk (E1068)
2. Blue chalk (E1068)
3. Light green chalk (E1068)
4. Pink chalk (E1068)
5. Green chalk (E1068)
6. Dull pink chalk (E1068)
7. White chalk (E1068)
8. Orange chalk (E1068)

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - * Soluble Chromium is not restricted by EN 71-3:2019+A1:2021, results shown only for reference



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Category II: Liquid or Sticky toy material

Method: With reference to EN 71-3:2019+A1:2021. Analysis of general elements was performed by ICP-MS / Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis or LC-ICP-MS / organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	1	2	3	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	560
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	1.0	11.3
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	0.4	0.9
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	375
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	300
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	0.1	0.3
Soluble Chromium* (Cr) (mg/kg)	ND	ND	0.036	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1.0	9.4
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.0025	0.005
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	0.5	2.6
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	156
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	0.2	0.5
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	300
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	0.5	1.9
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	9	18.8
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	4	9.4
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	1125
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	0.03	3750
Soluble Organic Tin -- (mg/kg)	0.06	ND	ND	--	0.2
Soluble Zinc (Zn) (mg/kg)	ND	63	ND	50	938



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	4	5	6	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	560
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	1.0	11.3
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	0.4	0.9
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	375
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	300
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	0.1	0.3
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1.0	9.4
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.0025	0.005
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	0.5	2.6
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	156
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	0.2	0.5
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	300
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	0.5	1.9
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	9	18.8
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	4	9.4
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	1125
Soluble Tin (Sn) (mg/kg)	0.04	ND	ND	0.03	3750
Soluble Organic Tin -- (mg/kg)	0.07	0.06	0.04	--	0.2
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	938



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	7	8	9	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	386	50	560
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	1.0	11.3
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	0.4	0.9
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	375
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	300
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	0.1	0.3
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	1.263	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1.263	1.0	9.4
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.0025	0.005
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	0.5	2.6
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	156
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	0.2	0.5
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	300
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	0.5	1.9
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	9	18.8
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	4	9.4
Soluble Strontium (Sr) (mg/kg)	ND	ND	186	50	1125
Soluble Tin (Sn) (mg/kg)	ND	0.04	ND	0.03	3750
Soluble Organic Tin -- (mg/kg)	0.05	0.08	ND	--	0.2
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	938



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No.: T52210260187TY

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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	10	11	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	133	ND	50	560
Soluble Antimony (Sb) (mg/kg)	ND	ND	1.0	11.3
Soluble Arsenic (As) (mg/kg)	ND	ND	0.4	0.9
Soluble Barium (Ba) (mg/kg)	ND	ND	50	375
Soluble Boron (B) (mg/kg)	ND	ND	50	300
Soluble Cadmium (Cd) (mg/kg)	ND	ND	0.1	0.3
Soluble Chromium ⁺ (Cr) (mg/kg)	1.265	ND	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	1.265	ND	1.0	9.4
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.0025	0.005
Soluble Cobalt (Co) (mg/kg)	ND	ND	0.5	2.6
Soluble Copper (Cu) (mg/kg)	ND	ND	50	156
Soluble Lead (Pb) (mg/kg)	ND	ND	0.2	0.5
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	300
Soluble Mercury (Hg) (mg/kg)	ND	ND	0.5	1.9
Soluble Nickel (Ni) (mg/kg)	ND	ND	9	18.8
Soluble Selenium (Se) (mg/kg)	ND	ND	4	9.4
Soluble Strontium (Sr) (mg/kg)	136	ND	50	1125
Soluble Tin (Sn) (mg/kg)	ND	ND	0.03	3750
Soluble Organic Tin -- (mg/kg)	ND	ND	--	0.2
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	938



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	12	13	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	195	50	560
Soluble Antimony (Sb) (mg/kg)	ND	ND	1.0	11.3
Soluble Arsenic (As) (mg/kg)	ND	ND	0.4	0.9
Soluble Barium (Ba) (mg/kg)	ND	ND	50	375
Soluble Boron (B) (mg/kg)	ND	ND	50	300
Soluble Cadmium (Cd) (mg/kg)	ND	ND	0.1	0.3
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	1.455	0.015	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	1.455	1.0	9.4
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.0025	0.005
Soluble Cobalt (Co) (mg/kg)	ND	ND	0.5	2.6
Soluble Copper (Cu) (mg/kg)	ND	ND	50	156
Soluble Lead (Pb) (mg/kg)	ND	ND	0.2	0.5
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	300
Soluble Mercury (Hg) (mg/kg)	ND	ND	0.5	1.9
Soluble Nickel (Ni) (mg/kg)	ND	ND	9	18.8
Soluble Selenium (Se) (mg/kg)	ND	ND	4	9.4
Soluble Strontium (Sr) (mg/kg)	ND	174	50	1125
Soluble Tin (Sn) (mg/kg)	ND	ND	0.03	3750
Soluble Organic Tin -- (mg/kg)	ND	ND	--	0.2
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	938



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Specimen Description:

1. Green ink (ZE1070A)
2. Blue ink (ZE1070A)
3. Dark blue ink (ZE1070A)
4. Black ink (ZE1070A)
5. Red ink (ZE1070A)
6. Pink ink (ZE1070A)
7. Yellow ink (ZE1070A)
8. Orange ink (ZE1070A)
9. Blue paint (E1067, E1069)
10. Yellow paint (E1069)
11. Yellow paint (E1067)
12. Blue paint (E1067)
13. Red paint (E1067, E1069) (Submitted on May 24, 2022)

Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)			MDL (mg/kg)
	1	2	3	
Dimethyl tin (DMT)	0.06	0.07	0.06	0.03
Methyl tin (MeT)	ND	ND	ND	0.03
Di-n-propyl tin (DProT)	ND	ND	ND	0.03
Butyl tin (BuT)	ND	ND	ND	0.03
Dibutyl tin (DBT)	ND	ND	ND	0.03
Tributyl tin (TBT)	ND	ND	ND	0.03
n-Octyl tin (MOT)	ND	ND	ND	0.03
Tetrabutyl tin (TeBT)	ND	ND	ND	0.03
Diphenyl tin (DPhT)	ND	ND	ND	0.03
Di-n-octyl tin (DOT)	ND	ND	ND	0.03
Triphenyl tin (TPhT)	ND	ND	ND	0.03



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Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)			MDL (mg/kg)
	4	5	6	
Dimethyl tin (DMT)	0.04	0.05	0.08	0.03
Methyl tin (MeT)	ND	ND	ND	0.03
Di-n-propyl tin (DProT)	ND	ND	ND	0.03
Butyl tin (BuT)	ND	ND	ND	0.03
Dibutyl tin (DBT)	ND	ND	ND	0.03
Tributyl tin (TBT)	ND	ND	ND	0.03
n-Octyl tin (MOT)	ND	ND	ND	0.03
Tetrabutyl tin (TeBT)	ND	ND	ND	0.03
Diphenyl tin (DPhT)	ND	ND	ND	0.03
Di-n-octyl tin (DOT)	ND	ND	ND	0.03
Triphenyl tin (TPhT)	ND	ND	ND	0.03

Specimen Description:

1. Green ink (ZE1070A)
2. Black ink (ZE1070A)
3. Red ink (ZE1070A)
4. Pink ink (ZE1070A)
5. Yellow ink (ZE1070A)
6. Orange ink (ZE1070A)

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - + Soluble Chromium is not restricted by EN 71-3:2019+A1:2021, results shown only for reference
 - De-waxing was applied (excluding analysis of organic tin) on test specimen No. 1-No.8



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Category III: Scraped-off toy material

Method: With reference to EN 71-3:2019+A1:2021. Analysis of general elements was performed by ICP-OES / Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis or LC-ICP-MS / organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	1	2	3	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium* (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	4	5	6	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.3	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	7	8	9	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	10	11	12	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	13	14	15	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	236	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	55	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	16	17	18	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	19	20	21	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	559	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	22	23	24	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	350	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	60	123	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	25	26	27	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	28	29	30	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	372	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	69	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	54	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	31	32	33	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	34	35	36	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	37	38	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	39	40	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	13	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000



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Specimen Description:

1. Off-white plastic sheet (PET) (Tray) (E1067)
2. Red plastic (PE) (Handle) (E1067)
3. Red sponge (Brush) (E1067)
4. Cream plastic (Tube) (E1067)
5. Blue plastic (PE) (Handle) (E1067)
6. Blue sponge (Brush) (E1067)
7. Yellow sponge (Brush) (E1067)
8. Cream wood (Brush, pen) (E1067, E1069, E1071)
9. Translucent green plastic sheet (PP) (Form board) (E1067, ZE1070A)
10. Translucent orange plastic sheet (PP) (Form board) (E1067)
11. White plastic (PE) (Lid) (E1067, E1069)
12. Transparent plastic sheet (Bottle) (E1067, E1069)
13. White paper sheet w/ multi-color printing (Artbook) (E1067, E1069, ZE1070A)
14. Dark red plastic (Clamp) (E1067, E1069, ZE1070A)
15. Bright white plastic (PP) (Tray) (E1069, ZE1070A)
16. White plastic sheet (Card) (E1069)
17. Brown plastic strip (Brush) (E1069)
18. Light brown plastic strip (Brush) (E1069)
19. Translucent light green plastic sheet (PP) (Form board) (E1071)
20. Transparent plastic film (Card) (E1071)
21. White surfaced cream paper card (Card) (E1071)
22. Black coating on plastic film (Card) (E1071)
23. White coating on plastic film (Card) (E1071)
24. Translucent red plastic sheet (PP) (Form board) (E1068)



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Specimen Description:

25. Dull red plastic (PP) (Chalk clamp) (E1068)
26. Yellow plastic (PP) (Chalk clamp) (E1068)
27. Pale blue plastic (PP) (Chalk clamp) (E1068)
28. White adhesive paper tape w/ red printing (Tape) (E1068, ZE1070A)
29. White paper (Tape) (E1068, ZE1070A)
30. Translucent light red plastic sheet (PP) (Form board) (ZE1070A)
31. Green plastic (PP) (Pen) (ZE1070A)
32. Pink plastic (PP) (Pen) (ZE1070A)
33. Black plastic (PP) (Pen) (ZE1070A)
34. Light blue plastic (PP) (Pen) (ZE1070A)
35. Dark blue plastic (PP) (Pen) (ZE1070A)
36. Red plastic (PP) (Pen) (ZE1070A)
37. Orange plastic (PP) (Pen) (ZE1070A)
38. Yellow plastic (PP) (Pen) (ZE1070A)
39. White felt (Pen) (ZE1070A)
40. White fiber (Nib) (ZE1070A)

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - + Soluble Chromium is not restricted by EN 71-3:2019+A1:2021, results shown only for reference

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN 71-3:2019+A1:2021.

Transparent dry glue (Fastener) (E1067)

Yellow, green, blue, purple, red, orange coating on plastic sheet (Card) (E1069)



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2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_L - U_{95}, T_L + U_{95}]$



Sample Picture (As received)

Pic.1



Pic.2



Pic.3



Pic.4



Sample Picture (As received)

Pic.5



SGS authenticate the photo on original report only

*** End of Report ***



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