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VERIFICATION 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 : T52410250896TY
Reference Number : WSZ-UK5241250064TY
Item Number : E3220, E3221
Client Reference Information : E3220A,E3221A
Sample Description : E3220 BUILD-IT TOOL BOX
 E3221 LITTLE ENGINEER'S WORKBENCH
Date of Issue : JAN 31, 2024

Applied Standards

Result

- 1) EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties Pass
- 2) EN 71-2:2020 – Safety of toys – Part 2: Flammability Pass
- 3) 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 Pass

This verification 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 document has been checked and approved by SGS United Kingdom Ltd who holds a copy of the relevant documentation in its office. This document confirms test results by another SGS entity without SGS UK Ltd having done the testing itself. This document 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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检测
TESTING
CNAS L2929

Test Report

No.: T52410250896TY

Date: JAN 31, 2024

Page 1 of 20

HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD
HAPE INTERNATIONAL (NINGBO) LTD
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:

E3220 BUILD-IT TOOL BOX
E3221 LITTLE ENGINEER'S WORKBENCH

Item No. : E3220, E3221
Country of Origin : CHINA
Country of Destination : GLOBAL
Client Reference Information : E3220A,E3221A
Labeled Age Grading : 3-8 YEARS
Requested Age Grading : 3-8Y

Age Group Assessed by SGS As Per Age : OVER 3 YEARS
Guideline
Age Group Applied in Testing : OVER 3 YEARS
Sample Receiving Date : JAN 19, 2024
Testing Period : JAN 19, 2024 TO JAN 31, 2024



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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: 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 + A1:2021 – Migration of certain elements	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





Jia Fengjuan, Shelly
 Dept. Manager
 CNAS Approved Signatories

Sun Enxu, Aaron
 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	Materials cleanliness	PASS
4.2	Assembly	N/A
4.3	Flexible Plastic 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	PASS
4.10.3	Hinges	N/A
4.10.4	Springs	N/A
4.11	Mouth Actuated Toys and 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
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	Toy scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectile toys	N/A



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<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion Caps Specifically Designed for Use in Toys	N/A
4.20	Acoustics	PASS
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
5.1b	Tension test (Test method 8.4)	N/A
5.1b	Drop test (Test method 8.5)	N/A
5.1b	Tip over test (Test method 8.6)	N/A
5.1b	Impact test (Test method 8.7)	N/A
5.1b	Compression test (Test method 8.8)	N/A
5.1b	Sharp edge (Test method 8.11)	N/A
5.1b	Sharp point (Test method 8.12)	N/A
5.1b	Tension test for magnet (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
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 cables in toys	N/A
5.5	Liquid Filled Toys	N/A
5.6	Speed limitation of electrically-driven ride-on 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



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<u>Clause</u>	<u>Description</u>	<u>Result</u>
5.12	Hemispheric shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	PASS
7	Warnings, markings and instructions for use	
7.1	General Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.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.	PASS
7.2	Toys not intended for children under 36 months Remark: The toy contains small parts. It is acceptable because appropriate warning is found on packaging.	PASS (See Remark)
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	Projectile toys	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	Toy bicycles	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A



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<u>Clause</u>	<u>Description</u>	<u>Result</u>
7.18	Toy scooters	N/A
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/ electrical experimental set	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.

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

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

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	PASS
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	N/A
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	N/A
4.2.4	Full or partial moulded head masks	N/A
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	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A



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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	Toy & Packaging
Importer's Name & Address	Present	Toy & Packaging
Manufacturer's Name & Address	Present	Toy & Packaging
Product ID	Present	Toy & 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 soak washed. 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 soak 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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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
	1	2	3		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	149	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)	70	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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 中国·广东·深圳市龙岗区坂田街道坂田社区吉华路430号江灏(坂田)工业厂区厂房4号 101-901、2号101、3号101、3号301-501 邮编: 518129 t:(86-755) 25328888 sgs.china@sgs.com

Test Item(s)	Result(s)			MDL	Permissible Limit
	4	5	6		
Specimen No.				--	--
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
	7	8	9		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	75	ND	173	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)	5.4	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
	10	11	12		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	191	455	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	181	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
	13	14	15		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	380	592	203	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)	111	99	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)	530	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	2	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	2	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
	19	20	21		
Specimen No.				--	--
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
	22	23	24		
Specimen No.				--	--
Mass of trace amount (mg)	37.0	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	55	121	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)	1	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	1	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	96	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.	25	26	--	--
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
	27	28		
Specimen No.			--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	128	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)	60	ND	50	46000

Specimen Description:

1. White paper sheet w/ multi-color coating (Instruction)
2. Gray plastic (ABS) (Accessory)
3. Light gray plastic (Screw, nut)
4. Black soft plastic (TPE) (Wheel)
5. Gray plastic (PP) (Wheel)
6. Pale gray plastic (Hammer)
7. Transparent lacquer w/ dark orange coating on wood (Tool)
8. Transparent lacquer w/ black coating on wood (Ring)
9. Bright red coating on wood (Body)
10. Light orange coating on wood (Body)



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11. Blue coating on wood (Body)
12. Dark blue coating on wood (Body)
13. Pale gray coating on wood (Gear)
14. Dull pale gray coating on wood (Gear)
15. Orange w/ light pink coating on wood (Tool)
16. Light blue w/ pale blue coating on wood (Body)
17. White plastic (Fastener)
18. Blue plastic (ABS) (Electric screwdriver)
19. Gray plastic (ABS) (Electric screwdriver)
20. Light grey plastic (ABS) (Electric screwdriver)
21. Transparent lacquer coating on wood (Body, stick, tool)
22. Transparent dry glue (Fastener)
23. Brown hardboard (Ring, gear, body)
24. Red coating on wood (Tool)
25. Brown wood (Tool, stick, fastener)
26. Cream plywood (Tool, body)
27. Yellow coating on wood (Body)
28. Bright gray plastic (ABS) (Accessory)



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- 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
 - Result(s) of specimen No.21 is(are) extracted from report No.T52310350754TY.
 - Result(s) of specimen No.22 is(are) extracted from report No.T52310262059TY.
 - Result(s) of specimen No.23- No.24 is(are) extracted from report No.T52310351212TY.
 - Result(s) of specimen No.25 – No.26 is(are) extracted from report No.T52310351210TY.
 - Result(s) of specimen No.27 is(are) extracted from report No.T52310350762TY.

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- * = Exceeds Permissible Limit

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.

Brown coating on wood (Logo)

Black coating on wood (Tool)

White coating on wood (Pattern)

Grey coating on wood (Pattern)

White coating (Electric screwdriver)

Note:

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the report:

N/A = Not Applicable

** = Visual Examination

DNI = Did Not Ignite

SE = Self-Extinguishing

IBE = Ignite But Self-Extinguished

SE within 50mm = Self-extinguished within 50 mm of flame application



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Remark:

1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
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



SGS authenticate the photo on original report only

*** End of Report ***



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