



中国认可
国际互认
检测
TESTING
CNAS L1744

SHANTOU CHENGHAI MEI BO KAI TOYS INDUSTRY CO., LTD.

Technical Report: (8825)119-0028

Date Received: Apr 29, 2025

Jun 5, 2025

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SHANTOU CHENGHAI MEI BO KAI TOYS INDUSTRY CO., LTD.
NO.3 NORTH BRIDGE, LIUDONG, HUAUFU, GUANGYI STREET,
CHENGHAI DISTRICT, 515800 SHANTOU, GUANGDONG
SHENG, CHINA

Sample Description:	GIRL FASHION TOY	Sample Size:	2
Vendor:	N/A	Client Reference	SEE ATTACHMENT
Manufacturer:	SHANTOU CHENGHAI MEI BO KAI TOYS INDUSTRY CO., LTD. ADDRESS: NO.3 NORTH BRIDGE, LIUDONG, HUAUFU, GUANGYI STREET, CHENGHAI DISTRICT, 515800 SHANTOU, GUANGDONG SHENG, CHINA	Information:	
Labeled Age Grade:	#MBK-521, #MBK+-527, #MBK-291K, #MBK-395, #MBK-329: 6+; OTHERS: 5+	SKN/SKU No.:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	PO No.:	NOT PROVIDE
Client Specified Age Grade:	3+	Ref #:	NOT PROVIDE
Tested Age Grade:	OVER 3 YEARS OF AGE	Country of Origin:	SHANTOU GUANGDONG CHINA
UPC Code:	N/A	Assortment No.:	NOT PROVIDE
Resubmitted Sample Date:	MAY 26, 2025	Country of Destination:	NOT PROVIDE
Test Starting Date:	APR 29, 2025	Test Finished Date:	JUN 3, 2025

BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

Lisa Bai

Lisa Bai

Analytical lab technical ass. manager

RT/Daisy Cai

REMARK

If there are questions or concerns on this report, please contact the following persons:

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BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

Tone Tang

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Physics Lab Assistant Supervisor



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EXECUTIVE SUMMARY:

Test Requested	Conclusion
(#)Mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018 clauses 1-7.	PASS
Labeling requirements of "CE marking, manufacturer/ Importer name and address, and product identification" under "Directive 2009/48/EC Safety of Toy".	PASS
(#)Flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020.	PASS
Liquids/gels flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020, section 4.1 (only test red liquid).	PASS
(#)Migration of Certain Elements in Category III - Scraped off toy material requirements of the European Standard, "Safety of toys", EN 71-3:2019+A2:2024.	PASS

Note: At the request of the client, the sample(s) was evaluated for use by children 3+.

Note: The manufacturer / importer information was present on the packaging only. It has to be noted that, or according to TSD 2009/48/EC, the manufacturers/ importer shall indicate their name, registered trade name registered trade mark and the address at which they can be contacted on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy."

Note: The product identification is present on the packaging only. It has to be noted that, According to TSD 2009/48/EC, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or, where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

Note: Tests with (#) are accredited by CNAS.

Note: At the request of client, test(s) was conducted on the certain component(s) of the submitted samples(s) / submitted component(s).

ATTACHMENT

Client Reference Information:

MBK-128A, MBK134, MBK135, MBK-202A, MBK-203A, MBK-203Y, MBK-205A, MBK-205K, MBK-207A, MBK-209A, MBK-218, MBK-219, MBK-219Y, MBK-220, MBK-220K, MBK-230K, MBK-231, MBK-232, MBK-232A, MBK-232K, MBK-266A, MBK-268, MBK-272A, MBK-272K, MBK-276, MBK-278A, MBK-278K, MBK-279A, MBK-280Y, MBK-282, MBK-283, MBK-285, MBK-285Y, MBK-286, MBK-288, MBK-288K, MBK-291, MBK-291-1, MBK-291K, MBK-291Y, MBK-320, MBK-321, MBK-322, MBK-323, MBK-325, MBK-326, MBK-327, MBK-328, MBK-329, MBK-330, MBK-331, MBK-331Y, MBK-332, MBK-333, MBK-333A, MBK-335, MBK-336, MBK-336Y, MBK-337, MBK-338, MBK-339, MBK-351, MBK-352, MBK-353A, MBK-355, MBK-356, MBK-356A, MBK-357, MBK-358, MBK-359, MBK-360, MBK-361, MBK-362, MBK-363, MBK-363Y, MBK-365, MBK-366, MBK-367, MBK-368, MBK-368Y, MBK-369Y, MBK-370, MBK-371, MBK-371Y, MBK-372, MBK-372Y, MBK-375, MBK-376, MBK-377, MBK-378, MBK-379, MBK-380, MBK-380Y, MBK-382, MBK-382A, MBK-382Y, MBK-383, MBK-385, MBK-385Y, MBK-386, MBK-386A, MBK-386Y, MBK-387, MBK-388, MBK-388A, MBK-388Y, MBK-389, MBK-390, MBK-390A, MBK-391, MBK-392, MBK-393, MBK-395, MBK-396, MBK-397, MBK-398, MBK-398A, MBK-398Y, MBK-501, MBK-501Y, MBK-502, MBK-502Y, MBK-503, MBK-503Y, MBK-505, MBK-506, MBK-507, MBK-508, MBK-509, MBK-510, MBK-511, MBK-511Y, MBK-512, MBK-513, MBK-515, MBK-515Y, MBK-516, MBK-520, MBK-521, MBK-522, MBK-522Y, MBK-525, MBK-525A, MBK-526, MBK-527, MBK-528A, MBK-529, MBK-530, MBK-531, MBK-532, MBK-533, MBK-535, MBK-536, MBK-537, MBK-538, MBK-539, MBK-550, MBK-551, MBK-552, MBK-553, MBK-555, MBK-556, MBK-557, MBK-558, MBK-559, MBK-560, MBK-561, MBK-562, MBK-563, MBK-565, MBK-566, MBK-567, MBK-568, MBK-569, MBK-570, MBK-571, MBK-572, MBK-573, MBK-575, MBK-576, MBK-577, MBK-577Y, MBK-578, MBK-579, MBK-580, MBK-581, MBK-582, MBK-583, MBK-585, MBK-586, MBK-587, MBK-588, MBK-590, MBK-591, MBK-592, MBK-593, MBK-595, MBK-596, MBK-597, MBK-598, MBK-599



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Tested Component(s) Description List:

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	white soft plastic	comb	-
I002	purple plastic	comb	-
I003	white plastic	beader,braider	-
I004	light pink plastic	beader,braider,clip bead	-
I005	rose pink plastic	beader,braider	-
I006	transparent rose pink plastic with glitter	beader,braider	-
I007	light pink plastic	clip bead	-
I008	purple plastic	clip bead	-
I009	clear/yellow plastic	snake circle	-
I010	clear/blue plastic	snake circle	-
I011	clear/purple plastic	snake circle	-
I012	clear/pink plastic	snake circle	-
I013	clear/orange plastic	snake circle	-
I014	cyan plastic	snake circle	-
I015	purple plastic	snake circle	-
I016	yellow plastic	round bead	-
I017	orange plastic	round bead	-
I018	red plastic	round bead	-
I019	green plastic	round bead	-
I020	purple plastic	round bead	-
I021	transparent shiny pink plastic	braid bead	-
I022	shiny white plastic	braid bead	-
I023	shiny pink plastic	braid bead	-
I024	sky blue plastic	flower bead	-
I025	black/pink coating	surface(beader,braider)	-
I026	pink thread	thread	-
I027	yellow thread	thread	-
I028	blue thread	thread	-
I029	white thread	thread	-
I030	green thread	thread	-
I031	transparent plastic	window of hair kit	-
I032	transparent plastic	gem	-
I033	transparent pink plastic	gem	-
I034	transparent rose pink plastic	gem	-
I035	transparent yellow plastic	gem	-
I036	transparent blue plastic	gem	-



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Tested Component(s) Description List:

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I037	transparent purple plastic	gem	-
I038	translucent plastic	gem base	-
I039	transparent purple plastic with glitter	gem bracelet marker	-
I040	white soft plastic	elastic band	-



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APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the EN71 : Part 1 : 2014+A1:2018,
CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age determination guidelines prepared by Technical Committee
CEN/TC 52 and

Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC).

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2 & 6

Symbol	Explanation				
NM	The sample(s) DOES NOT MEET the requirement of this Subclause				
M	The sample(s) MEET the requirement of this Subclause				
N/A	Not Applicable				
NR	Not Requested				
NE	Not Evaluated				
NP	None Present				
NT	Not Tested				
P	Present				
R	Refer to Comment Section of this report				
Symbol	Language Present	Symbol	Language Present	Symbol	Language Present
B	Belgian language	G	German language	PR	Portuguese language
D	Danish language	GR	Greek language	S	Spanish language
E	English language	H	Dutch language	SD	Swedish language
F	Finnish language	I	Italian language	SZ	Swiss language
FR	French language	N	Norwegian language		



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RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1 – 2018)**

Subclause	Requirement	Result
4.1	Material cleanliness	M
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	M
4.6	Expanding materials	NA
4.7 & 7.6	Edges	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	M
4.9	Protruding parts	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	M
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	NA
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA



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RESULTS:

Subclause	Requirement	Result
4.16	Heavy immobile toys	NA
4.17.2	All projectiles	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.26	Certain projectiles toys without stored energy	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA
4.19 & 7.13 & 7.14	Percussion caps	NA
4.20.2.1- 4.20.2.4, 4.20.2.6-4.20.2.12 & 7.14	Acoustics	M
*4.20.2.5	Acoustics– Toys using headphones or earphones	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27.1	Flying toys – General	NA
4.27.2 & 7.25.1	Rotors and propellers on flying toys	NA
4.27.3 & 7.25.2	Rotors and propellers on remote controlled flying toys	NA
FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS		
5.1	General	NA
5.1a	Small parts – as received	NA
5.1b	Small parts, sharp points, sharp edges – after tests	NA
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA
5.2	Fillings, coverings and seams	NA
5.3	Adhesion of plastic sheeting	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA



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RESULTS:

Subclause	Requirement	Result
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6 & 7.21	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9 & 7.11 & 7.23	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5 & 7.12	Liquid filled toys	NA
5.6	Electrically driven toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size	NA
5.9 & 7.17	Monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15 & 7.24	Sledges with cords for pulling	NA
6	Packaging	M
WARNINGS, INSTRUCTIONS FOR USE		
7.1	General	M
7.2	Toys not intended for children under 36 months	M
7.5	Functional toys	NA

2009/48/EC General Labeling Requirement

Requirement	Result
CE Mark	M
Manufacturer/ Importer name and address	M
Product Identification	M

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section NT=Not Test

Remark:

2009/48/EC General Labeling Requirements are not accredited by CNAS.



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RESULTS:

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.3	8.25.1	4.15.1.5	8.26.1	4.22	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32	5.4.5	8.40
4.5	8.5, 8.7, 8.11, 8.12	4.15.1.8	8.29	4.23	8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35	5.4.6	8.40
4.6	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14	4.15.2.4	8.26.2	4.24	8.37	5.4.7	8.20
4.7	8.11	4.15.3	8.21, 8.23.1	4.25	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1	5.7.8	8.39
4.8	8.12, 8.13	4.15.4	8.21, 8.23.1	4.26	8.38	5.5	8.15
4.9	8.4.2.3, 8.11, 8.12	4.15.5	8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27	4.27.1	8.43	5.6	8.29
4.10.1	8.18.2, 8.18.3	4.16	8.23.2	4.27.2	8.4.2.6	5.8	8.16
4.10.2	8.5, 8.6, 8.7, 8.11, 8.12	4.17.1	8.3, 8.4.2.1, 8.7, 8.8, 8.42	4.27.3	8.4.2.6	5.10	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32
4.11	8.2, 8.3, 8.4.2.1, 8.9, 8.17	4.17.2	8.3, 8.4.2.4, 8.7, 8.8, 8.32.1, 8.43, 8.44	5.1	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12	5.11	8.33
4.13	8.19	4.17.3	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.3	8.4.2.1, 8.25	5.12	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9,
4.14.1	8.31.1, 8.31.2	4.17.4	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.4.1	8.40	5.13	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32
4.14.2	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12	4.18	8.2, 8.3, 8.4.2.1	5.4.2	8.38, 8.40, 8.41	5.14	8.38
4.15.1.3	8.11, 8.12, 8.21, 8.22	4.20	8.28	5.4.3	8.38, 8.40, 8.41	6	8.3, 8.4.2.1, 8.25.1, 8.32.1
4.15.1.4	8.23.1	4.21	8.30	5.4.4	8.36, 8.38		



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RESULTS:

FLAMMABILITY (EN 71 PART 2: 2020)

Subclause	Requirement	Result
4.1	Cellulose nitrate	NP
4.1	Highly flammable solids	NP
4.1	Surface flash on a piled surface	NA
*4.1	Flammable gases	NA
*4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NP (only test red liquid).
4.2	Toys to be worn on the head	M
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by child	NA
4.4	warning on product and packaging (10 - 30 mm/s)	NA
4.5	Soft-filled toys	NA

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-

* Note: Subclause indicated with * are not accredited.

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section
P = Present NP = Not Present

Remark:

EN 71: Part 2: 2020, section 4.1 Liquids/gels flammability requirements are not accredited by CNAS.



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RESULTS:

Flammability Test

Test standard: EN71-2:2020

Equipment: closed-cup flashpoint tester.

Result for each tested component

Test Liquid	Limit	Result(s)	Verdict
Red	Flash point: > 60°C	Initial boiling point: > 60°C	Pass
Remark:			
Flashpoint & initial boiling point		Substance to be considered as	
Flash Point < 23°C & Initial Boiling Point ≤ 35°C		Extremely flammable	
Flash Point < 23°C & Initial Boiling Point > 35°C		Highly flammable	
Flash Point ≥ 23°C & Initial Boiling Point ≤ 60°C		Flammable	



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RESULTS:

Migration of Certain Elements, EN 71-3:2019+A2:2024

Test Method: European Standard EN 71-3:2019+A2:2024 Section 8.

Class: Category III - Scraped off toy material

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
		I001	I002	I003	I004	I005
Aluminium (Al)	28130	ND	2	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND	ND	ND	ND	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	ND	ND	ND	ND
Zinc (Zn)	46000	ND	ND	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I006	I007	I008	I009	I010
Aluminium (Al)	28130	7	2	2	2	ND
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND	ND	ND	ND	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	2	2	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	3	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	ND	ND	ND	ND
Zinc (Zn)	46000	ND	ND	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I011	I012	I013	I014	I015
Aluminium (Al)	28130	ND	3	ND	ND	2
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND	ND	ND	ND	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	3	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	2	ND	ND	ND
Zinc (Zn)	46000	ND	3	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I016	I017	I018	I019	I020
Aluminium (Al)	28130	ND	ND	2	ND	3
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND	ND	ND	ND	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	ND	ND	ND	2
Zinc (Zn)	46000	ND	ND	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I021	I022	I023	I024	I025
Aluminium (Al)	28130	ND	2	2	ND	10
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND	ND	ND	ND	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	ND	2	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	ND	2	ND	ND
Zinc (Zn)	46000	ND	ND	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	0.0110
Conclusion		PASS	PASS	PASS	PASS	PASS



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Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I026	I027	I028	I029	I030
Aluminium (Al)	28130	2	2	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	35	25	31	32	30
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND#	ND	ND	ND#	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	2	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	ND	ND	ND	ND
Zinc (Zn)	46000	ND	ND	ND	2	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I031	I032	I033	I034	I035
Aluminium (Al)	28130	ND	ND	26	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND	ND	ND	ND	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	ND	ND	ND	ND
Zinc (Zn)	46000	ND	ND	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I036	I037	I038	I039	I040
Aluminium (Al)	28130	ND	43	ND	3	2
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND	ND	ND	ND	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	ND	ND	ND	ND
Zinc (Zn)	46000	ND	ND	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS

mg/kg = milligrams per kilogram (ppm=parts per million)

Organic tin = migration of total organic tin is expressed as tributyltin cation content in mg/kg

= Verified results (see note)

ND = Not detected

Detection Limit (mg/kg) :

Category III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.025 ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.
- The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.

Note:

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: EN 71-3:2019+A2:2024, Annex F by Ion-chromatography with ICP-MS detector analysis.
- Organic tin: EN 71-3:2019+A2:2024, Annex G by Gas Chromatography-Mass Spectroscopy analysis.



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