

Date:

Jan 10, 2022

Applicant: ZHEJIANG JIAJIA RIDE-ON CO.,LTD

XINCANG INDUSTRIAL ZONE PINGHU CITY,

ZHEJIANG, CHINA.

Sample Description:

One(1) Group Of Submitted Sample Said To Be:

Item Name : Children's Car.

Item No. : JE1818.

Labelled Age Group : For 37-96 months. Packaging Provided By Applicant : Yes(Artwork).

Goods Exported To : EU.
Country Of Origin : China.

Tests Conducted:

As Requested By The Applicant, For Details Refer To Attached Page(s).

Conclusion:

Tested Samples Standard Result
Submitted Sample Set EN71-1: 2014+ A1: 2018 for Mechanical And Physical Properties Pass

Submitted Sample Set EN71-2: 2020 Flammability Test Pass

Submitted Sample EN71-2: 2011+A1: 2014 Flammability Test Pass

Tested Components Of Submitted Sample

Submitted Sample

EN 71-3:2019+A1:2021 on migration of certain elements Pass

Tested Components Of

Submitted Sample

EN 71-3:2019 on migration of certain elements

Pass

Pass

Tested Components Of

Submitted Sample

EN 71-3: 2019 on migration of certain elements & EU 2019/1922 amending 2009/48/EC (effective from May, 20,2021) for Aluminium

Miniming 2009/46/EC (effective from May, 20,2021) for Alumin

(AI) migration

Prepared And Checked By:

For Intertek Testing Services Wuxi Ltd.

Peter Chen General Manager







Tests Conducted (As Requested By The Applicant)

1 Mechanical and Physical Test

As Per European Standard on Safety of Toys EN71-1: 2014+ A1: 2018.

Applicant's Specified Age Group for Testing: For 37-96 months

The submitted samples were undergone the following abuse tests:			
Test	Clause	Parameter	
Torque Test	8.3	0.34 Nm	
Tension Test	8.4.2.1	90 N	
Protective Components	8.4.2.3	60 N	
Drop Test	8.5	850 mm x 5times	
Tip over test	8.6	Three times	
Impact Test	8.7	1 kg	
Compression Test	8.8	110 N	

<u>Clause</u>	Testing Items	<u>Assessment</u>
4	General Requirements	
4.1	Material	Р
4.2	Assembly	Р
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	Р
4.8	Points and metallic wires	Р
4.9	Protruding parts	Р
4.10	Parts moving against each other	Р
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	Р
4.16	Heavy immobile toys	NA
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	Р





Clause	ed (As Requested By The Applicant) Testing Items	Accoccment
	Toys containing a non-electrical heat source	Assessment
4.21		NA NA
4.22	Small balls	NA NA
4.23	Magnets	NA NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for Children under 36 Months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	Р
7.2	Toys not intended for children under 36 months	Р
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA NA
7.10	Roller skates, inline skates and skateboards and certain other ride-on toys	P
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA



Tests Conducted (As Requested By The Applicant)

Clause	Testing Items	<u>Assessment</u>
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Remark: P = Pass NA = Not Applicable

Artwork of packaging was provided for testing.

Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN 71 but are not standard requirements:

1. Marking

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

After checking, it was found that:

	Toy	Packaging
Manufacturer's name	Absent	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Absent
Importer's address	Absent	Absent
Product identification code	Absent	Present
CE-marking	Absent	Absent





Tests Conducted (As Requested By The Applicant)

Date Sample Received: Dec 13, 2021

Testing Period: Dec 13, 2021 To Jan 07, 2022

Mechanical and Physical Test

As Per European Standard on Safety of Toys EN71-1: 2014+ A1: 2018.

Applicant's Specified Age Group for Testing: For 37-96 months

The submitted samples were undergone the following abuse tests:			
Test	Clause	Parameter	
Torque Test	8.3	0.34 Nm	
Tension Test	8.4.2.1	90 N	
Protective Components	8.4.2.3	60 N	
Drop Test	8.5	850 mm x 5times	
Tip over test	8.6	Three times	
Impact Test	8.7	1 kg	
Compression Test	8.8	110 N	

Clause	Testing Items	<u>Assessment</u>
4	General Requirements	
4.1	Material	Р
4.2	Assembly	Р
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	Р
4.8	Points and metallic wires	Р
4.9	Protruding parts	Р
4.10	Parts moving against each other	Р
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	Р
4.16	Heavy immobile toys	NA
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion	NA





Clause	Testing Items	Assessment
	caps	
4.20	Acoustics	Р
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for Children under 36 Months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	Р
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA



Tests Conducted (As Requested By The Applicant)

Clause	Testing Items	<u>Assessment</u>
7.10	Roller skates, inline skates and skateboards and certain other ride-on toys	Р
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Remark: P = Pass NA = Not Applicable

Artwork of packaging was provided for testing.



Tests Conducted (As Requested By The Applicant)

Additional information according to the Toy Safety Directives 2009/48/EC requirement. These Remark: information also appears as a note within the EN 71 but are not standard requirements:

1. Marking

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

After checking, it was found that:

	Toy	Packaging
Manufacturer's name	Absent	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Absent
Importer's address	Absent	Absent
Product identification code	Absent	Present
CE-marking	Absent	Absent

Below is additional information checking according to the UK Toy (Safety) Regulations requirement.

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself.

After checking, it was found that:

	Toy	Packaging
Name of authorised	Absent	Absent
representative in Great Britain		
Address of authorised	Absent	Absent
representative in Great Britain		
Product identification code	Absent	Present

With reference to the guidance of using UKCA marking from 1 January 2021 by the Department for Business, Energy and Industrial Strategy published on 1 September 2020.

After checking UKCA marking, it was found that:

	Toy	Packaging
UKCA marking	Absent	Absent

Date Sample Received: Dec 13, 2021



Tests Conducted (As Requested By The Applicant)

2 Flammability Test

As per European Standard on Safety of Toys EN71-2: 2020

Clause	Testing Items	Assessment
4.1	General	Р
4.2	Toys to be worn on the head	
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	NA
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	NA
4.2.4	Full or partial moulded head masks	NA
4.2.5	Toys to be worn on the head	NA
4.3	Toy Disguise Costumes and Toys Intended to be Worn by a Child in Play	NA
4.4	Toys Intended to be Entered by a Child	NA
4.5	Soft Filled Toys	NA

Remark : P = Pass NA = Not Applicable

Date Sample Received: Dec 13, 2021



Tests Conducted (As Requested By The Applicant)

3 Flammability Test

As per European Standard on Safety of Toys EN71-2: 2011+A1: 2014

Clause	Testing Items	Assessment
4.1	General	Р
4.2	Toys to be worn on the head	
4.2.2	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude 50 mm or more from the surface of the toy	NA
4.2.3	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude less than 50 mm from the surface of the toy	NA
4.2.4	Full or partial moulded head masks	NA
4.2.5	Flowing elements of toys to be worn on the head	NA
4.3	Toy Disguise Costumes and Toys Intended to be Worn by a Child in Play	NA
4.4	Toys Intended to be Entered by a Child	NA
4.5	Soft Filled Toys	NA

Remark : P = Pass NA = Not Applicable

Date Sample Received: Dec 13, 2021



Tests Conducted (As Requested By The Applicant)

4 19 Toxic Element Migration Test

(A) Test Result

As per EN 71-3:2019+A1:2021 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, Ion Chromatography with UV-VIS and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

<u>Element</u>		<u>Re</u>	esult (mg/k	<u>g)</u>		Reporting <u>Limit</u>	<u>Limit</u> (mg/kg)	
	(1)	(2)	(3)	(4)	(5)	<u>(mg/kg)</u>	(IIIg/Kg)	
Aluminium (Al)	ND	ND	ND	ND	ND	300	28130	
Antimony (Sb)	ND	ND	ND	ND	ND	10	560	
Arsenic (As)	ND	ND	ND	ND	ND	10	47	
Barium (Ba)	ND	ND	ND	ND	ND	10	18750	
Boron (B)	ND	ND	ND	ND	ND	50	15000	
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17	
Chromium (III) (Cr III) #	ND	ND	ND	ND	ND	10	460	
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	0.025	0.053	
Cobalt (Co)	ND	ND	ND	ND	ND	10	130	
Copper (Cu)	ND	ND	ND	ND	ND	10	7700	
Lead (Pb)	ND	ND	ND	ND	ND	10	23	
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000	
Mercury (Hg)	ND	ND	ND	ND	ND	10	94	
Nickel (Ni)	ND	ND	ND	ND	ND	10	930	
Selenium (Se)	ND	ND	ND	ND	ND	10	460	
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000	
Tin (Sn)	ND	ND	ND	ND	ND	2.5	180000	
Organic tin ++	ND	ND	ND	ND	ND	5	12	
Zinc (Zn)	ND	ND	ND	ND	ND	100	46000	



Element		Re		Reporting <u>Limit</u>	<u>Limit</u> (mg/kg)		
	(6)	(7)	(8)	(9)	(10)	<u>(mg/kg)</u>	(IIIg/kg)
Aluminium (Al)	ND	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) #	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	2.5	180000
Organic tin ++	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	100	46000



<u>Element</u>		Re	esult (mg/k	<u>g)</u>		Reporting <u>Limit</u>	<u>Limit</u> (mg/kg)	
	(11)	(12)	(13)	(14)	(15)	<u>(mg/kg)</u>	(IIIg/Kg)	
Aluminium (Al)	ND	ND	ND	ND	ND	300	28130	
Antimony (Sb)	ND	ND	ND	ND	ND	10	560	
Arsenic (As)	ND	ND	ND	ND	ND	10	47	
Barium (Ba)	ND	ND	ND	ND	ND	10	18750	
Boron (B)	ND	ND	ND	ND	ND	50	15000	
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17	
Chromium (III) (Cr III) #	ND	ND	ND	ND	ND	10	460	
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	0.025	0.053	
Cobalt (Co)	ND	ND	ND	ND	ND	10	130	
Copper (Cu)	ND	ND	ND	ND	ND	10	7700	
Lead (Pb)	ND	ND	ND	ND	ND	10	23	
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000	
Mercury (Hg)	ND	ND	ND	ND	ND	10	94	
Nickel (Ni)	ND	ND	ND	ND	ND	10	930	
Selenium (Se)	ND	ND	ND	ND	ND	10	460	
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000	
Tin (Sn)	ND	ND	16	5.2	19	2.5	180000	
Organic tin ++	ND	ND	NDΔ	NDΔ	NDΔ	5	12	
Zinc (Zn)	ND	ND	ND	ND	ND	100	46000	



<u>Element</u>		Re	esult (mg/k	<u>g)</u>		Reporting <u>Limit</u>	<u>Limit</u> (mg/kg)
	(16)	(17)	(18)	(19)	(20)	<u>(mg/kg)</u>	(IIIg/Kg)
Aluminium (Al)	ND	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) #	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	11	18	11	18	12	2.5	180000
Organic tin ++	NDΔ	NDΔ	NDΔ	NDΔ	NDΔ	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	100	46000



<u>Element</u>		Re	esult (mg/k	<u>g)</u>		Reporting Limit	<u>Limit</u> (mg/kg)	
	(21)	(22)	(23)	(24)	(25)	<u>(mg/kg)</u>	(IIIg/Kg)	
Aluminium (Al)	ND	ND	ND	ND	ND	300	28130	
Antimony (Sb)	ND	ND	ND	ND	ND	10	560	
Arsenic (As)	ND	ND	ND	ND	ND	10	47	
Barium (Ba)	ND	ND	ND	ND	ND	10	18750	
Boron (B)	ND	ND	ND	ND	ND	50	15000	
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17	
Chromium (III) (Cr III) #	ND	ND	ND	ND	ND	10	460	
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	0.025	0.053	
Cobalt (Co)	ND	ND	ND	ND	ND	10	130	
Copper (Cu)	ND	ND	ND	ND	ND	10	7700	
Lead (Pb)	ND	ND	ND	ND	ND	10	23	
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000	
Mercury (Hg)	ND	ND	ND	ND	ND	10	94	
Nickel (Ni)	ND	ND	ND	ND	ND	10	930	
Selenium (Se)	ND	ND	ND	ND	ND	10	460	
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000	
Tin (Sn)	8.0	12	15	ND	ND	2.5	180000	
Organic tin ++	NDΔ	NDΔ	NDΔ	ND	ND	5	12	
Zinc (Zn)	ND	ND	ND	ND	ND	100	46000	



<u>Element</u>		Re	<u>g)</u>		Reporting <u>Limit</u>	<u>Limit</u> (mg/kg)	
	(26)	(27)	(28)	(29)	(30)	<u>(mg/kg)</u>	(IIIg/Kg)
Aluminium (Al)	ND	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) #	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	2.5	180000
Organic tin ++	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	100	46000



<u>Element</u>		Re	esult (mg/k	<u>g)</u>		Reporting Limit	<u>Limit</u> (mg/kg)	
	(31)	(32)	(33)	(34)	(35)	<u>(mg/kg)</u>	(IIIg/Kg)	
Aluminium (Al)	ND	ND	ND	ND	ND	300	28130	
Antimony (Sb)	ND	ND	ND	ND	ND	10	560	
Arsenic (As)	ND	ND	ND	ND	ND	10	47	
Barium (Ba)	ND	ND	ND	ND	ND	10	18750	
Boron (B)	ND	ND	ND	ND	ND	50	15000	
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17	
Chromium (III) (Cr III) #	ND	ND	ND	ND	ND	10	460	
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	0.025	0.053	
Cobalt (Co)	ND	ND	ND	ND	ND	10	130	
Copper (Cu)	ND	ND	ND	ND	ND	10	7700	
Lead (Pb)	ND	ND	ND	ND	ND	10	23	
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000	
Mercury (Hg)	ND	ND	ND	ND	ND	10	94	
Nickel (Ni)	ND	ND	ND	ND	ND	10	930	
Selenium (Se)	ND	ND	ND	ND	ND	10	460	
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000	
Tin (Sn)	ND	ND	ND	ND	ND	2.5	180000	
Organic tin ++	ND	ND	ND	ND	ND	5	12	
Zinc (Zn)	ND	ND	ND	ND	ND	100	46000	



Tests Conducted (As Requested By The Applicant)

Element			Result (mg/kg)			Reporting Limit	<u>Limit</u> (mg/kg)
	(36)	(37)	(38)	(39)	(40)	(41)	<u>(mg/kg)</u>	(mg/kg)
Aluminium (Al)	ND	ND	ND	ND	ND	1037	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) #	ND	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	ND	2.5	180000
Organic tin ++	ND	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	ND	100	46000

Remark: mg/kg = milligram per kilogram

++ = Unless the test results were marked with " Δ ", Organic tin contents were not directly determined and were derived from migration results of total tin.

- Organic tin test result was expressed as tributyl tin.

ND = Not detected (less than reporting limit)

= The reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

 Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation. Other Organic tin compounds may be also be present in sample as stated in EN 71-3:2019+A1:2021.

Tested component(s): See component list in the last section of this report.





Tests Conducted (As Requested By The Applicant)
(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Date Sample Received: Dec 13, 2021



Tests Conducted (As Requested By The Applicant)

5 19 Toxic Elements Migration Test

(A) Test Result

As per EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

<u>Element</u>		<u>R</u>	esult (mg/kg	ı)		<u>Limit (mg/kg)</u>
	(1)	(2)	(3)	(4)	(5)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	70000/28130©
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) ++	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) ++	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	180000
Organic tin ++	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	46000



<u>Element</u>		<u>R</u>	esult (mg/kg			<u>Limit (mg/kg)</u>
	(6)	(7)	(8)	(9)	(10)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	70000/28130©
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) ++	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) ++	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	180000
Organic tin ++	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	46000
Flement		R	esult (ma/ka	n)		Limit (ma/ka)
<u>Element</u>	(11)		esult (mg/kg		(15)	<u>Limit (mg/kg)</u>
	(11) < 300	(12)	(13)	(14)	(15) < 300	, 5
Aluminium (Al)	< 300	(12) < 300	(13) < 300	(14) < 300	< 300	70000/28130©
Aluminium (Al) Antimony (Sb)	< 300 < 10	(12) < 300 < 10	(13) < 300 < 10	(14) < 300 < 10	< 300 < 10	70000/28130© 560
Aluminium (Al) Antimony (Sb) Arsenic (As)	< 300 < 10 < 10	(12) < 300 < 10 < 10	(13) < 300 < 10 < 10	(14) < 300 < 10 < 10	< 300 < 10 < 10	70000/28130© 560 47
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba)	< 300 < 10 < 10 < 10	(12) < 300 < 10 < 10 < 10	(13) < 300 < 10 < 10 < 10	(14) < 300 < 10 < 10 < 10	< 300 < 10 < 10 < 10	70000/28130© 560 47 18750
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B)	< 300 < 10 < 10 < 10 < 50	(12) < 300 < 10 < 10 < 10 < 50	(13) < 300 < 10 < 10 < 10 < 50	(14) < 300 < 10 < 10 < 10 < 50	< 300 < 10 < 10 < 10 < 50	70000/28130 © 560 47 18750 15000
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd)	< 300 < 10 < 10 < 10 < 50 < 5	(12) < 300 < 10 < 10 < 10 < 50 < 5	(13) < 300 < 10 < 10 < 10 < 50 < 5	(14) < 300 < 10 < 10 < 10 < 50 < 5	< 300 < 10 < 10 < 10 < 50 < 5	70000/28130© 560 47 18750 15000
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++	< 300 < 10 < 10 < 10 < 10 < 50 < 5 < 10	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10	70000/28130© 560 47 18750 15000 17 460
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025#	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025#	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025#	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025#	70000/28130© 560 47 18750 15000 17 460 0.053
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co)	< 300 < 10 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu)	< 300 < 10 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700 23
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn)	< 300 < 10 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700 23 15000
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn) Mercury (Hg)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700 23 15000 94
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn) Mercury (Hg) Nickel (Ni)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700 23 15000 94 930
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn) Mercury (Hg) Nickel (Ni) Selenium (Se)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700 23 15000 94 930 460
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn) Mercury (Hg) Nickel (Ni) Selenium (Se) Strontium (Sr)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700 23 15000 94 930 460 56000
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn) Mercury (Hg) Nickel (Ni) Selenium (Se) Strontium (Sr) Tin (Sn)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10 < 16	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700 23 15000 94 930 460 56000 180000
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn) Mercury (Hg) Nickel (Ni) Selenium (Se) Strontium (Sr)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(12) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(13) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(14) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700 23 15000 94 930 460 56000





<u>Element</u>			esult (mg/kg			<u>Limit (mg/kg)</u>
	(16)	(17)	(18)	(19)	(20)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	70000/28130©
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) ++	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) ++	< 0.025#	< 0.025#	< 0.025	< 0.025#	< 0.025#	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	11	18	11	18	12	180000
Organic tin ++	< 3.0 _{\Delta}	< 3.0 Δ	< 3.0 \D	< 3.0∆	< 3.0∆	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	46000
<u>Element</u>		<u>R</u>	esult (mg/kg	<u>a)</u>		<u>Limit (mg/kg)</u>
<u>Element</u>	(21)	(22)	esult (mg/ko (23)	<u>a)</u> (24)	(25)	<u>Limit (mg/kg)</u>
Element Aluminium (Al)	(21) < 300				(25) < 300	<u>Limit (mg/kg)</u> 70000/28130©
Aluminium (Al)		(22)	(23)	(24)		
	< 300	(22) < 300	(23) < 300	(24) 331	< 300	70000/28130©
Aluminium (Al) Antimony (Sb) Arsenic (As)	< 300 < 10	(22) < 300 < 10	(23) < 300 < 10	(24) 331 < 10	< 300 < 10	70000/28130◎ 560
Aluminium (Al) Antimony (Sb)	< 300 < 10 < 10	(22) < 300 < 10 < 10	(23) < 300 < 10 < 10	(24) 331 < 10 < 10	< 300 < 10 < 10	70000/28130© 560 47
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B)	< 300 < 10 < 10 < 10	(22) < 300 < 10 < 10 < 10	(23) < 300 < 10 < 10 < 10	(24) 331 < 10 < 10 < 10	< 300 < 10 < 10 < 10	70000/28130⊚ 560 47 18750
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd)	< 300 < 10 < 10 < 10 < 50	(22) < 300 < 10 < 10 < 10 < 50	(23) < 300 < 10 < 10 < 10 < 50	(24) 331 < 10 < 10 < 10 < 50	< 300 < 10 < 10 < 10 < 50	70000/28130◎ 560 47 18750 15000
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++	< 300 < 10 < 10 < 10 < 50 < 5	(22) < 300 < 10 < 10 < 10 < 50 < 5	(23) < 300 < 10 < 10 < 10 < 50 < 5	(24) 331 < 10 < 10 < 10 < 50 < 5	< 300 < 10 < 10 < 10 < 50 < 5	70000/28130◎ 560 47 18750 15000
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++	< 300 < 10 < 10 < 10 < 10 < 50 < 5 < 10	(22) < 300 < 10 < 10 < 10 < 50 < 5 < 10	(23) < 300 < 10 < 10 < 10 < 50 < 5 < 10	(24) 331 < 10 < 10 < 10 < 50 < 5 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10	70000/28130◎ 560 47 18750 15000 17 460
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co)	< 300 < 10 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025	(22) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025#	(23) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025#	(24) 331 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025#	< 300 < 10 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025	70000/28130© 560 47 18750 15000 17 460 0.053
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu)	< 300 < 10 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10	<pre>(22) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10</pre>	(23) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10	(24) 331 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10	< 300 < 10 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb)	< 300 < 10 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10	<pre>(22) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10</pre>	(23) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10	(24) 331 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10	< 300 < 10 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10	70000/28130 ◎ 560 47 18750 15000 17 460 0.053 130 7700
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10	(22) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10	(23) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10	(24) 331 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10	70000/28130 ◎ 560 47 18750 15000 17 460 0.053 130 7700 23 15000
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn) Mercury (Hg)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10	(22) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10	(23) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10	(24) 331 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10	70000/28130 ◎ 560 47 18750 15000 17 460 0.053 130 7700 23
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn) Mercury (Hg) Nickel (Ni)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10	(22) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10	(23) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10	(24) 331 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700 23 15000 94
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn) Mercury (Hg) Nickel (Ni) Selenium (Se)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10	(22) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10	(23) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10	(24) 331 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10 < 10	70000/28130 ◎ 560 47 18750 15000 17 460 0.053 130 7700 23 15000 94 930
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn) Mercury (Hg) Nickel (Ni) Selenium (Se) Strontium (Sr)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(22) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10	(23) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(24) 331 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700 23 15000 94 930 460
Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Boron (B) Cadmium (Cd) Chromium (III) (Cr III) ++ Chromium (VI) (Cr VI) ++ Cobalt (Co) Copper (Cu) Lead (Pb) Manganese (Mn) Mercury (Hg) Nickel (Ni) Selenium (Se)	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(22) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(23) < 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	(24) 331 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025# < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	< 300 < 10 < 10 < 10 < 50 < 5 < 10 < 0.025 < 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	70000/28130© 560 47 18750 15000 17 460 0.053 130 7700 23 15000 94 930 460 56000





(26) (27) (28) (29) (30) Aluminium (Al) < 300 < 300 < 300 < 300 < 300 < 300 70000/2813 Antimony (Sb) < 10 < 10 < 10 < 10 < 560	
Antimony (Sb) < 10 < 10 < 10 < 10 < 560	,0◎
Arsenic (As) < 10 < 10 < 10 < 10 < 47	
Barium (Ba) < 10 < 10 < 10 < 10 < 10 18750	
Boron (B) < 50 < 50 < 50 < 50 < 50 15000	
Cadmium (Cd) < 5 < 5 < 5 < 5 < 5 17	
Chromium (III) (Cr III) $^{++}$ < 10 < 10 < 10 < 10 < 460	
Chromium $(VI)(Cr VI)^{++}$ < 0.025# < 0.025 < 0.025# < 0.025	
Cobalt (Co) < 10 < 10 < 10 < 10 < 10 130	
Copper (Cu) < 10 < 10 < 10 < 10 < 7700	
Lead (Pb) < 10 < 10 < 10 < 10 < 23	
Manganese (Mn) < 10 < 10 < 10 < 10 < 10 15000	
Mercury (Hg) < 10 < 10 < 10 < 10 94	
Nickel (Ni) < 10 < 10 < 10 < 10 930	
Selenium (Se) < 10 < 10 < 10 < 10 < 460	
Strontium (Sr) < 100 < 100 < 100 < 100 < 100 56000	
Tin (Sn) < 10 < 10 < 10 < 10 180000	
Organic tin ++ < 3.0 < 3.0 < 3.0 < 3.0 < 3.0 12	
Zinc (Zn) < 100 < 100 < 100 < 100 < 100 46000	
2110 (211)	
Element Result (mg/kg) Limit (mg/l	<u>(g)</u>
(31) (32) (33) (34) (35)	
Aluminium (Al) < 300 < 300 < 300 < 300 < 300 70000/2813	, 0 ◎
Antimony (Sb) < 10 < 10 < 10 < 10 < 560	
Arsenic (As) < 10 < 10 < 10 < 10 < 47	
Barium (Ba) < 10 < 10 < 10 < 10 < 10 18750	
Boron (B) < 50 < 50 < 50 < 50 < 50 15000	
Cadmium (Cd) < 5 < 5 < 5 < 5 < 5	
Chromium (III) (Cr III) $^{++}$ < 10 < 10 < 10 < 10 < 460	
Chromium (VI) (Cr VI) $^{++}$ < 0.025 < 0.025 < 0.025 < 0.025 < 0.025	
Cobalt (Co) < 10 < 10 < 10 < 10 < 10 130	
Copper (Cu) < 10 < 10 < 10 < 10 < 7700	
Lead (Pb) < 10 < 10 < 10 < 10 < 23	
Manganese (Mn) < 10 < 10 < 10 < 10 < 10 15000	
Mercury (Hg) < 10 < 10 < 10 < 10 < 94	
Nickel (Ni) < 10 < 10 < 10 < 10 < 930	
Selenium (Se) < 10 < 10 < 10 < 10 < 460	
Selenium (Se) < 10	
Selenium (Se) < 10 < 10 < 10 < 10 < 460	





<u>Element</u>		<u>R</u>	esult (mg/kc	1)		Limit (mg/kg)
	(36)	(37)	(38)	(39)	(40)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	70000/28130©
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) ++	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) ++	< 0.025#	< 0.025#	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	180000
Organic tin ++	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	46000

<u>Element</u>	Result (mg/kg)	<u>Limit (mg/kg)</u>
	(41)	
Aluminium (Al)	1037	70000/28130©
Antimony (Sb)	< 10	560
Arsenic (As)	< 10	47
Barium (Ba)	< 10	18750
Boron (B)	< 50	15000
Cadmium (Cd)	< 5	17
Chromium (III) (Cr III) ++	< 10	460
Chromium (VI) (Cr VI) ++	< 0.025#	0.053
Cobalt (Co)	< 10	130
Copper (Cu)	< 10	7700
Lead (Pb)	< 10	23
Manganese (Mn)	< 10	15000
Mercury (Hg)	< 10	94
Nickel (Ni)	< 10	930
Selenium (Se)	< 10	460
Strontium (Sr)	< 100	56000
Tin (Sn)	< 10	180000
Organic tin ++	< 3.0	12
Zinc (Zn)	< 100	46000



Tests Conducted (As Requested By The Applicant)
Remark: mg/kg = Milligram per kilogram

++ = Unless the test results were marked with "#" or " Δ ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.
- The new Aluminium (Al) migration limit [2250mg/kg for Category (I), 560mg/kg for Category (II),
 28130mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.
- # = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium migration value of Chromium(VI).
- Δ = Confirmation test was performed on the tested component. The reported value was calculated by summation of the migration values of Methyl tin, Dimethyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Monobutyl tin and Triphenyl tin. Other Organic tin compounds may be also be present in sample as stated in EN 71-3:2019.

Tested Component(s): See component list in the last section of this report.

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Date Sample Received: Dec 13, 2021

Testing Period: Dec 13, 2021 To Jan 07, 2022

(N)











TEST REPORT WUXH00123837 Number:

Tests Conducted (As Requested By The Applicant)

The Sample Were Submitted By Client's, Only For Reference.



Components List:

- (1)Purple Plastic(Body).
- (2) Yellow Plastic(Body).
- (3) Coffee Plastic(Body).
- (4) Pink Plastic(Body).
- (5) Gray Plastic(Body).
- Blue Plastic(Body). (6)
- Deep Blue Plastic(Body). (7)
- (8)Orange Plastic (Body).
- (9)White Plastic(Body).





Tests Conducted (As Requested By The Applicant)

- (10) Rice White Plastic(Body).
- (11) Green Plastic(Body).
- (12) Transparent Plastic(Body).
- (13) Coffee Soft Plastic (The Wire Skin).
- (14) Red Soft Plastic (The Wire Skin).
- (15) Deep Soft Plastic (The Wire Skin).
- (16) Green Soft Plastic (The Wire Skin).
- (17) Deep Green Soft Plastic (The Wire Skin).
- (18) Blue Soft Plastic (The Wire Skin).
- (19) Deep Blue Soft Plastic (The Wire Skin).
- (20) White Soft Plastic (The Wire Skin).
- (21) Black Soft Plastic (The Wire Skin).
- (22) Yellow Soft Plastic (The Wire Skin).
- (23) Orange Soft Plastic (The Wire Skin).
- (24) Coffee Transparent Plastic(Front Window, Door Window).
- (25) Black Plastic(Wheel).
- (26) Orange Transparent Plastic(Tail Light).
- (27) Red Transparent Plastic(Tail Light).
- (28) Beige Plastic(Seat, Door, Instrument Panel).
- (29) Black Plastic(Button).
- (30) Black Plastic(Instrument Panel).
- (31) Black Plastic(Gear Lever).
- (32) Black Plastic(Steering Wheel).
- (33) Black Plastic(Accelerator Pedal).
- (34) Black Plastic(Safety Belt Adjuster).
- (35) Red Plastic(Safety Belt Adjuster).
- (36) Black Webbing(Safety Belt).
- (37) Black Plastic(Inner Seat).
- (38) Semi-Transparent Plastic(Inner Seat).
- (39) Grey Plastic(Chassis).
- (40) Black Plastic(Chassis).
- (41) Silver Coating On Plastic(front light, wheel, rearview mirror).

End of Report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-68/09:2019 (Non-binary acceptance based on guard band w = U) except designation from the customer, regulation or test specification. This decision rule only applies to the

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