

Test Report

Report No.: RGST230109113R01

Revision Date: Jan 30, 2023

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Date: Jan 16, 2023

Applicant : Guangdong Luddy Interactive Entertainment Ltd.

Address : Room 101 Building 1 No. 201 Jinyang Road Zhangmutou Town Dongguan City
Guangdong Province

Report on the submitted sample(s) said to be:

Sample(s) Name : B.DUCK TWO-IN-ONE BICYCLE

Model : 1020L-Y, 1020L-PI

Labeled Age Grading : 37-72 months

Requested Age Grade : 37-72 months

Tested Age Grading : 37-72 months

Sample(s) received date : Jan 09, 2023

Testing period : From Jan 09, 2023 to Jan 16, 2023

Test Request

Conclusion

- | | |
|---|------|
| (1) As specified by client, to determine the Physical & Mechanical properties in the submitted sample(s) in accordance with ASTM F963-17 Standard Consumer Safety Specification for Toy Safety. | Pass |
| (2) As specified by client, to determine the Tracking Labels for Children's Products in the submitted sample(s) in accordance with The tracking label requirement of the Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103. | Pass |
| (3) As specified by client, to determine the Flammability properties in the submitted sample(s) in accordance with ASTM F963-17 Standard Consumer Safety Specification for Toy Safety. | Pass |
| (4) As specified by client, to determine the Mechanical and Physical Properties on the submitted sample(s) in accordance with European Standard on Safety of Toys- EN 71-1:2014+A1:2018 Mechanical and physical properties. | Pass |
| (5) Labeling requirements of “CE marking, manufacturer/importer name and address, and product identification” under “Directive 2009/48/EC Safety of Toy”. | Pass |



Eason

Ben

Eason Zeng

Ben Miao

Physical

Chemical

Technical Manager Technical Manager

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Test Request

Conclusion

- | | |
|---|------|
| (6) As specified by client, to determine the Flammability Properties on the submitted sample(s) in accordance with European Standard on Safety of Toys- EN 71-2:2020 Flammability. | Pass |
| (7) As specified by client, to determine the Heavy Elements content in the submitted sample(s) in accordance with ASTM F963-17 (Clause 4.3.5) Standard Consumer Safety Specification for Toy Safety. | Pass |
| (8) As specified by client, to determine the Migration of Certain Elements content in the submitted sample(s) in accordance with European Standard on Safety of Toys EN 71-3:2019+A1:2021. | Pass |
| (9) As specified by client, to determine the Lead content in the submitted sample(s) in accordance with Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment Title 1 section 101- Children's products containing lead; lead paint rule. | Pass |
| (10) As specified by client, to determine the Lead content in the submitted sample(s) in accordance with California "Proposition 65". | Pass |
| (11) As specified by client, to determine Total Lead content in the submitted sample(s) in accordance with Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006. | Pass |
| (12) As specified by client, to determine the Cadmium content in the submitted sample(s) in accordance with Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006. | Pass |
| (13) As specified by client, to determine the Cadmium content in the submitted sample(s) in accordance with California "Proposition 65". | Pass |
| (14) As specified by client, to determine the DEHP、DBP、BBP、DINP、DIBP、DPENP、DHEXP and DCHP content in the submitted sample(s) in accordance with Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment & 16 CFR Part 1307-Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates, to determine the DIDP content in the submitted sample(s) in accordance with California "Proposition 65". | Pass |
| (15) As specified by client, to determine the DEHP、DBP、BBP、DIBP、DINP、DIDP and DNOP content in the submitted sample(s) in accordance with Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006. | Pass |

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Photograph(s) of Sample



GST authenticate the photo on original report only

Specimen Description:

No.	Test sample(s) name
1	B.DUCK TWO-IN-ONE BICYCLE

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Results:

(1) ASTM F963-17: Mechanical and physical hazards

Clause	Test request	Result(s)	Verdict
4.1	Material quality (visual check on cleanliness)	M	Pass
4.2	Flammability	M	Pass
4.3	Toxicology	Refer to Chemical section	/
4.3.7	Stuffing Materials	NA	/
4.4	Electrical/Thermal Energy	NA	/
4.5	Sound producing toys	NA	/
4.6	Small objects	NA	/
4.6.1	Toys that are intended for children under 36 months of age	NA	/
4.6.2	Mouth actuated toys	NA	/
4.6.3	Toys and games for 36 months to 72 months—Small part warning	NA	/
4.7	Accessible edges-Potentially hazardous sharp metal and glass edges are defined in 16CFR 1500.49	M	Pass
4.8	Projections (under 8 years of age)	M	Pass
4.9	Accessible points -Potentially hazardous sharp points are defined by 16CFR 1500.48	M	Pass
4.10	Wires or rods	NA	/
4.11	Nails and fasteners	M	Pass
4.12	Plastic film	M	Pass
4.13	Folding mechanisms and hinges	NA	/
4.14	Cords and elastics in toys	NA	/
4.15	Stability and over-load requirements	M	Pass
4.16	Confined spaces	NA	/
4.17	Wheels, tires, and axles (aged 96 months or less)	M	Pass
4.18	Holes, clearance, and accessibility of mechanisms	M	Pass
4.19	Simulated protective devices	NA	/

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Clause	Test request	Result(s)	Verdict
4.20	Pacifiers (under 36 months of age)	NA	/
4.21	Projectile toys	NA	/
4.22	Teethers and teething toys	NA	/
4.23	Rattles	NA	/
4.24	Squeeze toys (under age of 18 months)	NA	/
4.25	Battery operated toys	NA	/
4.26	Toys intended to be attached to a crib or playpen	NA	/
4.27	Stuffed and beanbag type toys	NA	/
4.28	Stroller and carriage toys	NA	/
4.29	Art materials	NA	/
4.30	Toy gun marking	NA	/
4.31	Balloons—safety labeling	NA	/
4.32	Certain toys with nearly spherical ends	NA	/
4.33	Marbles (3 years of age or older)	NA	/
4.34	Balls	NA	/
4.35	Pompoms (under 3 years of age)	NA	/
4.36	Hemispheric-Shaped Objects	NA	/
4.37	Yo Yo Elastic Tether Toys	NA	/
4.38	Magnets	NA	/
4.39	Jaw Entrapment in Handles and Steering Wheels	NA	/
4.40	Expanding Materials	NA	/
4.41	Toy Chests	NA	/
5	Labeling Requirements		
5.1	Federal government requirements	NA	/
5.2	Age grading labeling	Recorded: 37-72 months	
5.3	Safety labeling requirements	M	Pass

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Clause	Test request	Result(s)	Verdict
5.4	Aquatic toys	NA	/
5.5	Crib and playpen toys	NA	/
5.6	Mobiles	NA	/
5.7	Stroller and carriage toys	NA	/
5.8	Toys intended to be assembled by an adult	M	Pass
5.9	Simulated protective devices	NA	/
5.10	Toys with functional sharp edges or points	NA	/
5.11	Small objects, small balls, marbles and balloons.	NA	/
5.12	Toys caps	NA	/
5.13	Art materials	NA	/
5.14	Electric toys	NA	/
5.15	Battery-operated toys	NA	/
5.16	Promotional Materials	M	Pass
5.17	Magnets	NA	/
6.1	Definition and Description	M	Pass
6.2	Crib and playpen toys	NA	/
6.3	Mobiles	NA	/
6.4	Toys intended to be assembled by an adult	M	Pass
6.5	Battery-operated toys	NA	/
6.6	Battery-Powered Ride-on toys	NA	/
6.7	Toys in contact with food	NA	/
7	Producer's Markings		
7.1	Either a principal component of a toy or the package of a toy shall be marked with the name and address of the producer or the distributor.	M	Pass
7.2	Battery-powered ride-on toys	NA	/

Note:

1. M = Meet NA = Not Applicable

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(2) CPSIA Tracking labels

Test method: As per CPSIA 2008 sec. 103. Tracking labels for children's products.

Result:

Requirement	Result(s)	Verdict
On Packaging		
Present on packaging	M	Pass
Permanent	M	Pass
Manufacturer or private labeler	M	Pass
Location of production (City and country)	M	Pass
Date of production (month and year)	M	Pass
On Product		
Present on product	M	Pass
Permanent	M	Pass
Location of production (City and country)	M	Pass
Date of production (month and year)	M	Pass
Manufacturer or private labeler	M	Pass

Note:

- M = Meet

(3) ASTM F963-17: Flammability of materials other than textiles

Test method: ASTM F963-17 Section 4.2

Method used: Federal Hazardous Substances Act (FHSA) 16 CFR 1500.44

Result:

Sample(s) name	Ignition point	Unit	Result(s)
B.DUCK TWO-IN-ONE BICYCLE	Top	in/sec	ISE
	End	in/sec	ISE

- In accordance with the FHSA 16 CFR 1500.3 (C) (6) (vi), the burning rate should not be greater than 0.1 in/sec.

- ISE = Ignited but Self-Extinguished

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(4) Mechanical and physical properties – EN 71-1:2014+A1:2018

Clause	Test request	Result(s)	Verdict
4	General requirements		
4.1	Material cleanliness	M	Pass
4.2	Assembly	M	Pass
4.3	Flexible plastic sheeting	NA	/
4.4	Toy bags	NA	/
4.5	Glass	NA	/
4.6	Expanding materials	NA	/
4.7	Edges	M	Pass
4.8	Points and metallic wires	M	Pass
4.9	Protruding parts	M	Pass
4.10	Parts moving against each other		
4.10.1	Folding and sliding mechanisms	NA	/
4.10.2	Driving mechanisms	NA	/
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	Balloons	NA	/
4.13	Cords of toy kites and other flying toys	NA	/
4.14	Enclosures		
4.14.1	Toy which a child can enter	NA	/
4.14.2	Masks and helmets	NA	/
4.15	Toys intended to bear the mass of a child		
4.15.1	Toys propelled by a child or by other means	M	Pass
4.15.2	Toy bicycles	NA	/
4.15.3	Rocking horses and similar toys	NA	/

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Clause	Test request	Result(s)	Verdict
4.15.4	Toys not propelled by child	NA	/
4.15.5	Toy scooters	NA	/
4.16	Heavy immobile toys	NA	/
4.17	Projectile toys		
4.17.1	General	NA	/
4.17.2	All projectiles	NA	/
4.17.3	Projectile toys with stored energy	NA	/
4.17.4	Certain projectile toys without stored energy	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	NA	/
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	/

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Clause	Test request	Result(s)	Verdict
5.8	Shape and size of certain toys	NA	/
5.9	Toy comprising monofilament fiber	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	M	Pass
7	Warning, marking and instructions for use		
7.1	General	M	Pass
7.2	Toys not intended for children under 36 months	NA	/
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	/
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	M	Pass
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA	/
7.12	Liquid-filled teethingers	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	/

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Clause	Test request	Result(s)	Verdict
7.17	Toys comprising monofilament fibers	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	/

Note:

1. M = Meet NA = Not Applicable

(5) 2009/48/EC general labeling requirement

Requirement	Result(s)	Verdict
CE Marking	M	Pass
Manufacturer/importer name and address	M	Pass
Product identification	M	Pass

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(6) Flammability – EN 71-2:2020

Clause	Test request	Result(s)	Verdict
4	Requirement		
4.1	Cellulose nitrate	M	Pass
4.1	Highly flammable solids	M	Pass
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	NA	/
4.2	Toys to be worn on the head	NA	/
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	/

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Specimen Description:

No.	Test part(s) name
1	Pink soft plastic, handle
2	Silvery metal, handle
3	Light pink plastic, body
4	Silvery metal, body
5	Purple plastic, block shot
6	Light pink plastic, support fixation
7	Silvery metal, support
8	Laminated multi-color printed white sticker
9	Black and red printed white sticker, warning label
10	Black plated silvery metal, ring
11	Silvery metal, screw
12	Purple/pink printed white synthetic leather, cushion
13	Black plastic, cushion
14	Black plated silvery metal, cushion screw
15	Silvery metal tube
16	Black plated silvery metal, screw
17	Black plated silvery metal, adjusting ring
18	Purple foam, wheel
19	Pink plastic, hubcaps
20	Black plastic, Wheel bearing
21	Black plastic, button
22	Black plated silvery metal, axle
23	Black plated silvery metal, holder screw
24	Light pink plastic, pedal
25	Grey soft plastic, training wheel
26	Purple plastic, training wheel hubcaps

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No.	Test part(s) name
27	Silvery metal, training wheel support
28	Black plated silvery metal, training wheel screw
29	Black plated silvery metal, training wheel nut
30	Golden metal, gasket
31	Black plated silvery metal, pedal screw
32	White foam, cushion interlayer
33	Grey foam, cushion interlayer
34	Black soft plastic, handle
35	Yellow coating, body
36	Black plastic, block shot
37	Yellow plastic, bracket fixation
38	Laminated yellow/black/brown printed white sticker
39	Multi-color printed white synthetic leather, cushion
40	Black foam, wheel
41	Apricot plastic, hubcaps
42	Yellow plastic, pedal
43	Black soft plastic, training wheel
44	Dark yellow plastic, training wheel hubcaps

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(7) Heavy Elements content- ASTM F963-17 (Clause 4.3.5) Standard Consumer Safety Specification for Toy Safety.

Total Lead (Pb) Content in Surface Coating

Test Method: CPSC-CH-E1003-09.1

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				3+35			
Lead(Pb)	mg/kg	10	90	N.D.			

Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method: CPSC-CH-E1001-08.3 & CPSC-CH-E1002-08.3

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				1+34	2+4+7	5+6+13	8+38
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				9	10+11+14	12+39	15+16+17
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				18+40	19+20+21	22+23+27	24+26+36
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				25+43	28+29	30+31	37+41
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)				
				1	3	5	6	8
				42+44				
Lead(Pb)	mg/kg	10	100	N.D.				

Soluble elements Content

Test Method: ASTM F 963-17 Section 8.3.2 & ASTM F 963-17 Section 8.3.5

Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test item(s)	Unit	MDL	Limit	Result(s)				
				1	3	5	6	8
Cadmium(Cd)	mg/kg	5	75	N.D.	N.D.	N.D.	N.D.	N.D.
Lead(Pb)	mg/kg	5	90	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony(Sb)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Barium(Ba)	mg/kg	5	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic(As)	mg/kg	5	25	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium(Se)	mg/kg	5	500	N.D.	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)				
				9	12	13	18	19
Cadmium(Cd)	mg/kg	5	75	N.D.	N.D.	N.D.	N.D.	N.D.
Lead(Pb)	mg/kg	5	90	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony(Sb)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Barium(Ba)	mg/kg	5	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic(As)	mg/kg	5	25	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium(Se)	mg/kg	5	500	N.D.	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)				
				20	21	24	25	26
Cadmium(Cd)	mg/kg	5	75	N.D.	N.D.	N.D.	N.D.	N.D.
Lead(Pb)	mg/kg	5	90	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony(Sb)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Barium(Ba)	mg/kg	5	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic(As)	mg/kg	5	25	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium(Se)	mg/kg	5	500	N.D.	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)				
				34	35	36	37	38
Cadmium(Cd)	mg/kg	5	75	N.D.	N.D.	N.D.	N.D.	N.D.
Lead(Pb)	mg/kg	5	90	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony(Sb)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Barium(Ba)	mg/kg	5	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic(As)	mg/kg	5	25	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium(Se)	mg/kg	5	500	N.D.	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)				
				39	40	41	42	43
Cadmium(Cd)	mg/kg	5	75	N.D.	N.D.	N.D.	N.D.	N.D.
Lead(Pb)	mg/kg	5	90	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony(Sb)	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Barium(Ba)	mg/kg	5	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic(As)	mg/kg	5	25	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium(Se)	mg/kg	5	500	N.D.	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)
				44
Cadmium(Cd)	mg/kg	5	75	N.D.
Lead(Pb)	mg/kg	5	90	N.D.
Chromium(Cr)	mg/kg	5	60	N.D.
Mercury(Hg)	mg/kg	5	60	N.D.
Antimony(Sb)	mg/kg	5	60	N.D.
Barium(Ba)	mg/kg	5	1000	N.D.
Arsenic(As)	mg/kg	5	25	N.D.
Selenium(Se)	mg/kg	5	500	N.D.

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(8) Migration of Certain Elements- EN 71-3:2019+A1:2021

Test Method: EN 71-3:2019+A1:2021

 Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES),
 Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometer (LC-ICP-MS)

Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)			
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	1	3	5	6
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	35	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)			
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	1	3	5	6
Zn	mg/kg	2	3750	938	46000	N.D.	57	25	N.D.

Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)			
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	8	9	12	13
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	213	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)			
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	8	9	12	13
Sr	mg/kg	2	4500	1125	56000	N.D.	29	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	76	46

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)			
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	18	19	20	21
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	32	N.D.	N.D.	16

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)			
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	24	25	26	34
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	35	N.D.	N.D.	N.D.

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			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	35	36	37	38
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)			
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	39	40	41	42
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	52	25	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)	
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	43	44
Al	mg/kg	2	2250	560	28130	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.
B	mg/kg	2	1200	300	15000	N.D.	N.D.
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.

-The Migration content limit is Category 3.

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Remark:

1. The migration of organic tin is expressed as Tributyltin(TBT).
2. Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN 71-3:2019+A1:2021.
3. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.

(9) Total lead content - Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment

Title 1 section 101

Total Lead (Pb) Content in Surface Coating

Test Method: CPSC-CH-E1003-09.1

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				3+35			
Lead(Pb)	mg/kg	10	90	N.D.			

Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method: CPSC-CH-E1001-08.3 & CPSC-CH-E1002-08.3

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				1+34	2+4+7	5+6+13	8+38
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				9	10+11+14	12+39	15+16+17
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				18+40	19+20+21	22+23+27	24+26+36
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)			
				25+43	28+29	30+31	37+41
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				42+44			
Lead(Pb)	mg/kg	10	100	N.D.			

(10) Total lead content-California "Proposition 65"

Total Lead (Pb) Content in Surface Coating

Test Method: CPSC-CH-E1003-09.1

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				3+35			
Lead(Pb)	mg/kg	10	90	N.D.			

Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method: CPSC-CH-E1001-08.3 & CPSC-CH-E1002-08.3

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				1+34	2+4+7	5+6+13	8+38
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				9	10+11+14	12+39	15+16+17
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)			
				18+40	19+20+21	22+23+27	24+26+36
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				25+43	28+29	30+31	37+41
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				42+44			
Lead(Pb)	mg/kg	10	100	N.D.			

(11) Total lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006

Test Method: IEC 62321-5:2013

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				1+34	2+4+7	3+35	5+6+13
Lead(Pb)	mg/kg	10	500	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				8+38	9	10+11+14	12+39
Lead(Pb)	mg/kg	10	500	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				15+16+17	18+40	19+20+21	22+23+27
Lead(Pb)	mg/kg	10	500	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)			
				24+26+36	25+43	28+29	30+31
Lead(Pb)	mg/kg	10	500	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)	
				37+41	42+44
Lead(Pb)	mg/kg	10	500	N.D.	N.D.

(12) Total Cadmium content- Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006

Test Method: IEC 62321-5: 2013

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				1+34	3+35	5+6+13	8+38
Cadmium(Cd)	mg/kg	5	Refer to Remark	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				9	12+39	18+40	19+20+21
Cadmium(Cd)	mg/kg	5	Refer to Remark	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				24+26+36	25+43	32+33	37+41
Cadmium(Cd)	mg/kg	5	Refer to Remark	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)
				42+44
Cadmium(Cd)	mg/kg	5	Refer to Remark	N.D.

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Remark:

Category	Limit (mg/kg)
Paints with code[3208]and [3209]	100
Paints with code[3208]and [3209] with a zinc content exceeding 10% by weight of the paint	1000
Painted article	1000
Plastic	100
Metal parts of jewelry & hair accessories	100

(13) Total Cadmium content - California "Proposition 65"

Test Method: With reference to IEC 62321-5: 2013

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				1+34	2+4+7	3+35	5+6+13
Cadmium(Cd)	mg/kg	5	300	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				8+38	9	10+11+14	12+39
Cadmium(Cd)	mg/kg	5	300	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				15+16+17	18+40	19+20+21	22+23+27
Cadmium(Cd)	mg/kg	5	300	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				24+26+36	25+43	28+29	30+31
Cadmium(Cd)	mg/kg	5	300	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)	
				37+41	42+44
Cadmium(Cd)	mg/kg	5	300	N.D.	N.D.

(14) Phthalates content- Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment & 16 CFR Part 1307-Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates & California "Proposition 65".

Test Method: CPSC-CH-C1001-09.4

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					1+34	3+35
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	1000	N.D.	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0 68515-48-0	mg/kg	100	1000	N.D.	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	50	1000	N.D.	N.D.
Di-n-pentyl Phthalate (DPENP)	131-18-0	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl Phthalate (DHEXP)	84-75-3	mg/kg	50	1000	N.D.	N.D.
Dicyclohexyl Phthalate (DCHP)	84-61-7	mg/kg	50	1000	N.D.	N.D.
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	mg/kg	100	1000	N.D.	N.D.

Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					5+6+13	8+38
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	1000	N.D.	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0 68515-48-0	mg/kg	100	1000	N.D.	N.D.

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Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					5+6+13	8+38
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	50	1000	N.D.	N.D.
Di-n-pentyl Phthalate (DPENP)	131-18-0	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl Phthalate (DHEXP)	84-75-3	mg/kg	50	1000	N.D.	N.D.
Dicyclohexyl Phthalate (DCHP)	84-61-7	mg/kg	50	1000	N.D.	N.D.
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	mg/kg	100	1000	N.D.	N.D.

Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					9	12+39
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	1000	N.D.	111
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	1000	N.D.	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0 68515-48-0	mg/kg	100	1000	N.D.	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	50	1000	N.D.	N.D.
Di-n-pentyl Phthalate (DPENP)	131-18-0	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl Phthalate (DHEXP)	84-75-3	mg/kg	50	1000	N.D.	N.D.
Dicyclohexyl Phthalate (DCHP)	84-61-7	mg/kg	50	1000	N.D.	N.D.
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	mg/kg	100	1000	N.D.	N.D.

Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					18+40	19+20+21
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	1000	N.D.	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0 68515-48-0	mg/kg	100	1000	N.D.	N.D.

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Test Report

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Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					18+40	19+20+21
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	50	1000	N.D.	N.D.
Di-n-pentyl Phthalate (DPENP)	131-18-0	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl Phthalate (DHEXP)	84-75-3	mg/kg	50	1000	N.D.	N.D.
Dicyclohexyl Phthalate (DCHP)	84-61-7	mg/kg	50	1000	N.D.	N.D.
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	mg/kg	100	1000	N.D.	N.D.

Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					24+26+36	25+43
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	1000	N.D.	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0 68515-48-0	mg/kg	100	1000	N.D.	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	50	1000	N.D.	N.D.
Di-n-pentyl Phthalate (DPENP)	131-18-0	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl Phthalate (DHEXP)	84-75-3	mg/kg	50	1000	N.D.	N.D.
Dicyclohexyl Phthalate (DCHP)	84-61-7	mg/kg	50	1000	N.D.	N.D.
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	mg/kg	100	1000	N.D.	N.D.

Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					37+41	42+44
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	1000	N.D.	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0	mg/kg	100	1000	N.D.	N.D.

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Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					37+41	42+44
	68515-48-0					
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	50	1000	N.D.	N.D.
Di-n-pentyl Phthalate (DPENP)	131-18-0	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl Phthalate (DHEXP)	84-75-3	mg/kg	50	1000	N.D.	N.D.
Dicyclohexyl Phthalate (DCHP)	84-61-7	mg/kg	50	1000	N.D.	N.D.
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	mg/kg	100	1000	N.D.	N.D.

- DIDP is not included in CNAS Accreditation scope.

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(15) Phthalates content- Item 51 & 52 of Annex XVII of REACH Regulation (EC) 1907/2006

Test Method: With reference to EN 14372:2004(E)

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				1+34	3+35	5+6+13
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Total(DEHP+DBP+BBP+DIBP)	mg/kg	/	1000	N.D.	N.D.	N.D.
Diisononyl Phthalate (DINP)	mg/kg	100	/	N.D.	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	100	/	N.D.	N.D.	N.D.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	/	N.D.	N.D.	N.D.
Total(DINP+DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)		
				8+38	9	12+39
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.	111
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Total(DEHP+DBP+BBP+DIBP)	mg/kg	/	1000	N.D.	N.D.	111
Diisononyl Phthalate (DINP)	mg/kg	100	/	N.D.	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	100	/	N.D.	N.D.	N.D.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	/	N.D.	N.D.	N.D.
Total(DINP+DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)		
				18+40	19+20+21	24+26+36
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Total(DEHP+DBP+BBP+DIBP)	mg/kg	/	1000	N.D.	N.D.	N.D.
Diisononyl Phthalate (DINP)	mg/kg	100	/	N.D.	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	100	/	N.D.	N.D.	N.D.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	/	N.D.	N.D.	N.D.
Total(DINP+DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)		
				25+43	32+33	37+41
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Total(DEHP+DBP+BBP+DIBP)	mg/kg	/	1000	N.D.	N.D.	N.D.
Diisononyl Phthalate (DINP)	mg/kg	100	/	N.D.	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	100	/	N.D.	N.D.	N.D.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	/	N.D.	N.D.	N.D.
Total(DINP+DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)
				42+44
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.D.
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	50	1000	N.D.
Total(DEHP+DBP+BBP+DIBP)	mg/kg	/	1000	N.D.
Diisononyl Phthalate (DINP)	mg/kg	100	/	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	100	/	N.D.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	/	N.D.
Total(DINP+DIDP+DNOP)	mg/kg	/	1000	N.D.

- DIBP is not included in CNAS Accreditation scope.

Note:

- mg/kg=milligram per kilogram
- N.D. =Not Detected (<MDL)
- MDL=Method Detection Limit

The soluble test results shown of item (7) are of the adjusted analytical results.

- As specified by client, the mixed testing were conducted.
- This test report supersedes test report No. RGST230109113, the original test report is void.

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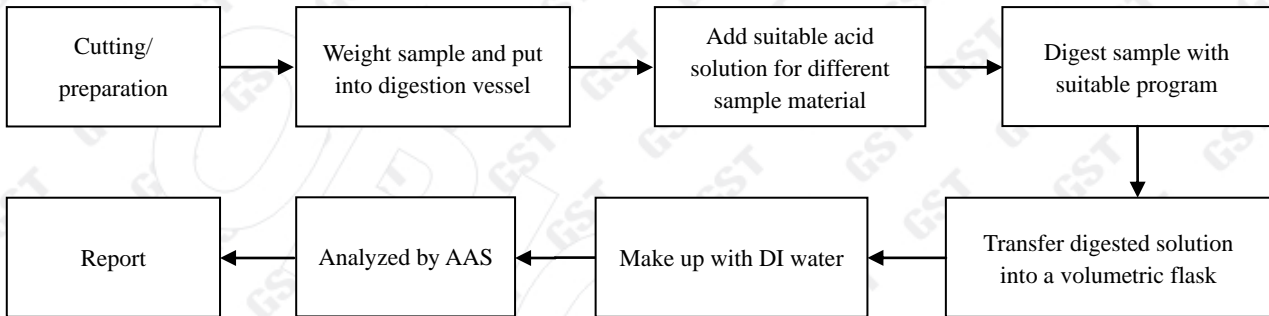
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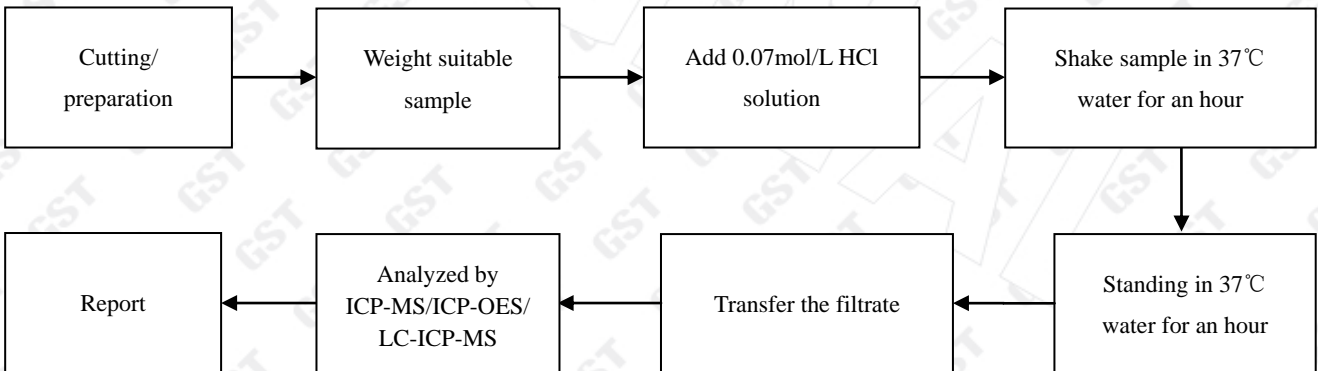
Date: Jan 16, 2023

Appendix

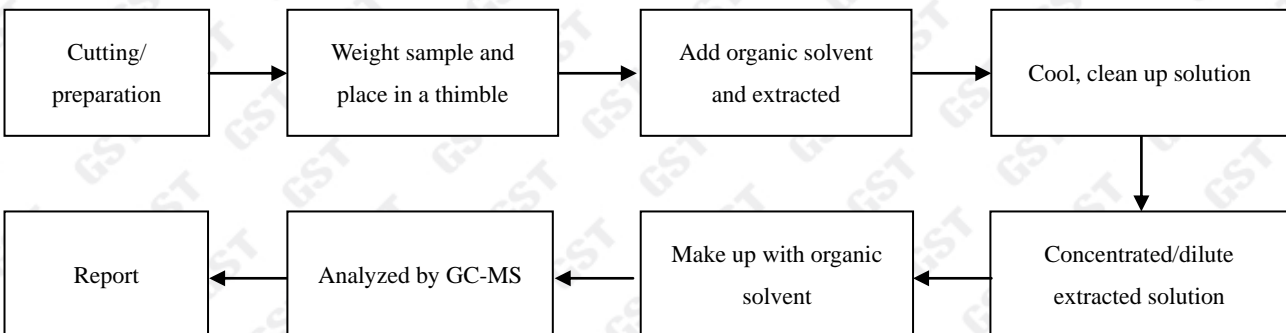
1. Test flowchart for Pb/Cd content:



2. Test flowchart for soluble elements content:



3. Test flowchart for Phthalates content:



*** End of Report ***

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