

13116-14330 Glasmurmeln

EN 71 -1/-2/-3





Test Report

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Company Name
shown on Report
Address

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

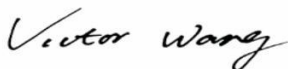
Sample Name	Please refer to the page 2
Country of Origin	México
Exported to	Europe;U.S.A
Client Specified Age Grading	Not stated
Labeled Age Grading	Not for children under 3yrs(77805, 77725) 5+(others)
Age Group Applied in Testing	Over 3 years
Sample Received Date	Jun. 11, 2021
Sample Resubmitted Date	Jun. 25, 2021
Testing Period	Jun. 11, 2021 to Jul. 8, 2021

Test Conducted:

As requested by the client. For details refer to next page(s)



Approved by



Victor Wang
Lab Manager

Date Jul. 9, 2021



Hill Zheng
Technical Manager

No. T393391636



Centre Testing International Group Co., Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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Sample Name 1.-Opal lime green asst:ITEM 4087 Kinkajou, Grasshopper, Troll, Chamaleon, Earthicus, Curves, Zombie, Triceratops, Agapornis, Hobbit, opal lime green; 2.- Latte asst: ITEM 4008 Bear, Triceratops, Saturn, Giraffe, Camo, Mercury, Llama, Sloth, Starfish, Davinci, Bald eagle, opal latte, Plucky Girl; 3.-Opal black asst: Odelus, Stronghold, Poison frog, Pluton, Samurai, Vila, Pirate, Black beard, Panda, Meteor, Black panther, Milkyway, Witch, Raven, Vampire, Dracula, Werewolf, Zebra, Jupiter, Scarabe, Galaxy, Rocky, Dunkleosteus, Supernova, Armageddon, Pearly black, Twister, Satory, Orca, Steely, opal black, opal black iridized, Assorted marbles; 4.- Ice clear asst: ITEM 4031 Cat's eye, Mango twist, Swirl girl, Sensational girl, Vapour, Arctic, Funfair, Madame Aneisha, Fiesta, Thor, Diamond asst., Mango twist, Goldfish, Polar bear, Thunder storm, Wind, Princess, Fairy, Watermelon, Sunflower, Sunrise, Space dust, Ice queen, Snowflake, Stardust, Earth, Venus, Red, Soap bubble, Shiny Rainbow, Cute puppy, Puppy, Swamp thing, Alien, Frosted rainbow, Confetti, Carnival, Spaghetti lustered, Green fairy, Snow monster, Lustered cats eye, Tutti frutti, Premium assorted marbles, Unicorn, Aura, Pinky, Lion, Jellyfish, glow ball, Ice clear; white and blue cat's eye, pluma, kitty, Heimdall; 5.- Blue asst: Item 4065 Eclipse, Dragonfly, Michelangelo, Mandarin Fish, Glitterbomb, Neptune, Water, Sky, Frost Blast, Dauphon Bleu, Oxygen, Windmill, Beluga, Lustered light blue, crystal aqua blue, Stingray, Wicked owl, Iceberg, Iguana, lueberry freeze, Sea Turtle, Uranus, ITEM 4001 Blue Jay, Ocean, Tidalwave, Wavebreaker, Celest, Serpent, Aquaticus, Beluga, Lancelot, Dinosaur, Brontosaurus, Hook, Item 4052 Dino, Volcano, Van Gogh, Blue Dolphin, Marble man, Valecnik, opal lt blue, opal dk blue, opal dk blue iridized, Pleauvre Bleue, Blue Dolphin, Hela. 6.-Opal Orange asst: Item 4035 Clownfish, Intrepid girl, Monarch Butterfly, Bengal tiger, Viking, Carrot, Saberthoot tiger, Pumpkin, Seahorse, Opal orange, T Rex; 7.-Opal yellow asst: ITEM 4147 Sun, Rocketrush solar, Gecko, Spinosaurus, Blowfish, Krieger, Spumoni, Mermaid, Canari, Bumblebee, Bee, Ice Griff, Katydid, Spartan, Clara, Blue Tang, ITEM 4086 Morelia, Opal yellow, Canari, Pearly yellow, opal yellow iridized, Griffin, Energy Girl; 8.-Red asst: ITEM 4120 Rooster, Fire Blaze, crystal red, Lustered ruby, Fire, Red roaster, Cardinal, Odin, Red Beard, Red devil, Diablo, Opal red, Canari, opal red iridized, Mars, Lady bug, Rocky, Grif, Ciberlitch, Duke, Phyro; 9.- Green asst: Darick, Fungus, Dragon, Peacock, Mayan, Jungle, Enchanted forest, Earthquake, Loki, Pterodactylus, Windstorm, Item 4010 Butterfly, Oceana pearly green, Amazona, lustered green, opal green, opal green iridized. 10.-Opal White: Comet, Nymph, Tiger shark, Cira, Africa, White tiger, Tigre blanc, Unicorn, MegaBot, Panamerican, Morgan, Hedgehog, Chicken, Wizard, Pirate, Shark, Meteor, Asteroid, Queen, Opal white, Opal white iridized, Renquin; 11.- Amber asst: Orangutan, Kraken, crystal amber, Zombie, Mummy, Octopus, Mysterious girl; 12.- Opal gray asst.: Thunderbolt, Tarantula, Wolf, Elephant, Magnus, Electric eel, Parrot, opal gray. All groups (different sizes 10mm, 12,mm, 14mm, 16mm, 22mm, 25mm, 35mm, 42mm, 50mm) and different packaging for each customer: 24/14mm+1/22mm, 20/16mm+1/25mm, 12mm, 6/25MM, 3/35mm, 2/42mm, 2/50mm and other variations.

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Executive Summary:**TEST REQUEST****CONCLUSION**

1) ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	
- Mechanical and Physical test	PASS
- Clause 4.2 Flammability of toys	PASS
- Clause 4.3.5 Heavy elements – Total Lead content	PASS
- Clause 4.3.5 Heavy elements – Migration of certain elements	PASS
2) EN 71-1:2014+A1:2018 European Standard on Safety of Toys	
- Mechanical and Physical Properties	PASS
3) EN 71-2:2020 European Standard on Safety of Toys	
- Flammability	PASS
4) EN 71-3:2019+A1:2021 European Standard on Safety of Toys	
- Migration of certain elements	PASS
5) US Consumer Product Safety Improvement Act of 2008 (CPSIA) with amendment (H.R.2715)	
- Lead in surface-coatings and similar materials of children's products	N/A
- Lead in substrate materials of children's products	PASS
6) California proposition 65 settlements (Case No. BG-07-350969)	
- Lead in surface coatings and similar materials of children's toys and child care articles	N/A
- Lead in substrate of children's toys and child care articles	PASS

N/A = Not Applicable

For chemical test, the tested component(s) is/are identified by the client.

***** For further details, please refer to the following page(s) *****

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1) ASTM F963-17 Standard Consumer Safety Specification for Toy Safety**▼ Mechanical and Physical test**

As specified in ASTM F963-17 standard consumer safety specification for toy safety.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.	Safety Requirements	
4.1	Material Quality.....	Pass
4.6	Small Objects.....	N/A
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
4.33	Marbles.....	Pass
5.	Labeling Requirements	
5.2	Age Grading Labeling.....	Pass
5.3	Safety Labeling Requirements.....	Pass
5.11	Small Objects, Small Balls, Marbles, and Balloons.....	Pass
5.16	Promotional Materials.....	Pass
6.	Instructional Literature	
6.1	Definition and description	Pass
7.	Producer's Markings	
7.1	Producer's Markings.....	Pass
8.	Test Methods	
8.5	Normal Use Testing.....	Pass
8.7	Impact Test	Pass
8.8	Torque Tests for Removal of Components.....	Pass
8.9	Tension Test for Removal of Components.....	Pass

N/A = Not Applicable

Note:

- Result(s) shown of tested clause(s) (4.33, 5, 6, 7) is/are based on resubmitted sample(s)/part material(s).
- Only applicable clause(s) was/were shown.

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▼ Clause 4.2 Flammability of toys

As specified in ASTM F963-17 standard consumer safety specification for toy safety.

Flammability Test on Solid

Burning Rate (inch/sec)	Limit (inch/sec)
DNI	0.1

-- DNI = Did Not Ignite

Note:

- Only applicable clause(s) was/were shown.

▼ Clause 4.3.5 Heavy elements – Total Lead content

Method(s) ASTM F963-17 Clause 8.3 was/were used, and the item(s) was/were analyzed by ICP-OES.

Toy substrate materials:

Tested Item(s)	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	001+002 +003	004+005 +006	007+008 +009	010+011 +012		
Total Lead (Pb)	20	N.D.	N.D.	N.D.	5	100

Tested Item(s)	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	013+014+015	016+017+018		
Total Lead (Pb)	N.D.	N.D.	5	100

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- The limit for composite test should be divided by the mixed number.

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▼ Clause 4.3.5 Heavy elements – Migration of certain elements

Method(s) ASTM F963-17 Clause 8.3 was/were used, and the item(s) was/were determined by ICP-OES.

Tested Item(s)	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	001	002	003	004		
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	5	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	5	90
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	5	500

Tested Item(s)	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	005	006	007	008		
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	5	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	5	90
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	5	500

Tested Item(s)	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	009	010	011	012		
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	5	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	5	90
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	5	500

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Tested Item(s)	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	013	014	015	016		
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	5	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	5	90
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	5	500

Tested Item(s)	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	018	019		
Soluble Antimony (Sb)	N.D.	N.D.	5	60
Soluble Arsenic (As)	N.D.	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	N.D.	5	75
Soluble Chromium (Cr)	N.D.	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	N.D.	5	90
Soluble Mercury (Hg)	N.D.	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	N.D.	5	500

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Result(s) shown are of adjusted analytical results by subtracting analytical correction factor.
- Filter paper was used instead of 0.45µm membrane filter in lab testing.

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2) EN 71-1:2014+A1:2018 European Standard on Safety of Toys

▼ Mechanical and Physical Properties

As specified in European Standard on Safety of Toys EN 71 part 1:2014+A1:2018.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	General requirements	
4.1	Material cleanliness.....	Pass
4.5	Glass.....	Pass
4.7	Edges.....	Pass
4.8	Points and metallic wires.....	Pass
4.22	Small balls	Pass
7	Warnings, markings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass
	(Remark : Small ball(s) was(were) found before abuse test. It is acceptable because appropriate age warning was found on the packaging.)	

Annex
A.33 Warnings, markings and instructions for use

Check points	Location where the information is	
	On toy	On packaging
CE Mark	×	✓
Product ID	×	✓
Manufacturer's Name & Address	×	×
Importer's Name & Address	×	×

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Remark:

○

1 : Toys made available on the market must bear the CE marking. The CE marking must be subject to the general principle set out in Article 30 of Regulation (EC) No 765/2008. The CE marking must be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging.

②: The manufacturer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer.

③: The manufacturer must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

Note:

- Result(s) shown of tested clause(s) (4.22, 7) and Annex A.33 is/are based on resubmitted sample(s)/part material(s).
- Only applicable clause(s) was/ were shown.

3) EN 71-2:2020 European Standard on Safety of Toys

▼ Flammability※

As specified in European Standard on Safety of Toys EN 71-2:2020.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	Requirements	
4.1	General requirements (The following materials shall not be used in the manufacture of toys except as provided in EN 71-2:2020: Celluloid, highly flammable solids, materials with a piled surface which produce surface flash, flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels.)	Pass

Note:

- “※” indicates the item(s)/method(s) is (are) not in UKAS accreditation scope.
- Only applicable clause(s) was/ were shown.

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4) **EN 71-3:2019+A1:2021 European Standard on Safety of Toys**▼ **Migration of certain elements**※

Method(s) EN 71-3:2019+A1:2021 was/were used, and the item(s) was/were analyzed by ICP-OES, ICP-MS, IC-UV and/or GC-MS.

Category III: scraped-off toy material

Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	001	002	003	004	005		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) ^{#1}	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) ^{#2}	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) ^{#3}	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	006	007	008	009	010		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) ^{#1}	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) ^{#2}	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) ^{#3}	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	011	012	013	014	015		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) ^{#1}	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) ^{#2}	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) ^{#3}	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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Tested Item(s)	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	016	018	019		
Aluminium (Al)	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	1	17
Chromium (III) ^{#1}	N.D.	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	50	56000
Tin (Sn) ^{#2}	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) ^{#3}	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	50	46000

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Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Filter paper was used instead of membrane filter in lab testing.
- ^{#1} Trivalent chromium (Cr (III)) = Chromium (Cr) - Hexavalent chromium (Cr (VI)).
- ^{#2} Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2019+A1:2021.
- ^{#3} The migration of organic tin is expressed as tributyltin (TBT). Where the tin content exceeded the limit of organic tin, eleven organic tins listed in the table were determined by GC-MS and the client should note there are other organic tins that may be present in toy materials.

Organic tins tested under EN 71-3:2019+A1:2021
Methyl tin (MeT)
Butyl tin (BuT)
Dibutyl tin (DBT)
Tributyl tin (TBT)
Tetrabutyl tin (TeBT)
n-Octyl tin (MOT)
Di-n-octyl tin (DOT)
Di-n-propyl tin (DProT)
Diphenyl tin (DPhT)
Triphenyl tin (TPhT)
Dimethyl tin (DMT)

- “※” indicates the item(s)/method(s) is (are) not in UKAS accreditation scope.

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5) US Consumer Product Safety Improvement Act of 2008 (CPSIA) with amendment (H.R.2715)

▼ Lead in surface-coatings and similar materials of children's products.....N/A

Method(s) CPSC-CH-E1003-09.1 was/were used, and the item(s) was/were analyzed by ICP-OES.

N/A = Not Applicable (as received, there was no paint or similar surface-coating material on the submitted sample(s), so it is not applicable to the requirement of this standard)

▼ Lead in substrate materials of children's products

Method(s) CPSC-CH-E1001-08.3/CPSC-CH-E1002-08.3 was/were used, and the item(s) was/were analyzed by ICP-OES.

Tested Item(s)	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	001+002 +003	004+005 +006	007+008 +009	010+011 +012		
Total Lead (Pb)	20	N.D.	N.D.	N.D.	5	100

Tested Item(s)	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	013+014+015	016+017+018		
Total Lead (Pb)	N.D.	N.D.	5	100

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- The limit for composite test should be divided by the mixed number.

6) California proposition 65 settlements (Case No. BG-07-350969)

▼ Lead in surface coatings and similar materials of children's toys and child care articles.....N/A

Method(s) CPSC-CH-E1003-09.1 was/were used, and the item(s) was/were analyzed by ICP-OES.

N/A = Not Applicable (as received, there was no paint or similar surface-coating material on the submitted sample(s), so it is not applicable to the requirement of this standard)

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▼ Lead in substrate of children's toys and child care articles

Method(s) CPSC-CH-E1001-08.3/CPSC-CH-E1002-08.3 was/were used, and the item(s) was/were analyzed by ICP-OES.

Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	001+002 +003	004+005 +006	007+008 +009	010+011 +012	013+014 +015		
Total Lead (Pb)	20	N.D.	N.D.	N.D.	N.D.	5	100

Tested Item(s)	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	016+017+018		
Total Lead (Pb)	N.D.	5	100

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- The limit for composite test should be divided by the mixed number.

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Tested Sample/Part Description

- 001 Black glass(glass bead)
- 002 Floweriness multi-color glass(glass bead)
- 003 Grey/blue glass(glass bead)
- 004 Orange glass(glass bead)
- 005 Orange/black glass(glass bead)
- 006 Orange red glass(glass bead)
- 007 Orange red/white glass(glass bead)
- 008 Floweriness/yellow glass(glass bead)
- 009 Transparent/orange/yellow/blue glass(glass bead)
- 010 Transparent brown/white glass(glass bead)
- 011 Yellow glass(glass bead)
- 012 Blue glass(glass bead)
- 013 Translucent blue/white glass(glass bead)
- 014 Brown/beige glass(glass bead)
- 015 Yellow green/light blue/white glass(glass bead)
- 016 White glass(glass bead)
- 017 Green glass(glass bead)
- 018 Brown/light green/blue glass(glass bead)
- 019 Transparent green/white/red glass(glass bead)

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Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. Company Name and Address shown on Report, the sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***