



Test Report

Report No.: COBO23040585

Date: Apr.19.2023

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Applicant: QINGDAO BANABA MANUFACTURE TOOLS LTD

Address: YINZHU 266431,JIAONAN,QINGDAO,CHINA

The following samples were submitted and identified on behalf of the clients as

Sample Name: Kid' s wheelbarrow
Model: WB0201S
Description: Kid' s wheelbarrow
Manufacturer: QINGDAO BANABA MANUFACTURE TOOLS LTD
Address: YINZHU 266431,JIAONAN,QINGDAO,CHINA
Importer: J.A.D. TOOLS s.r.o.
Importer address: Uničovská 1324/21 784 01 LITOVEL
Age grading: 4-7 years
Sample quantity: 1 set
Sample Received Date: Apr.13.2023
Test Period: Apr.13.2023 to Apr.19.2023
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).

Report Issuer:

Physical project: *Dean Luo*

Chemical project: *Sam Xie*

Anti-counterfeiting code: fpj4



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1. Test Requested

Based on the performed tests on specified material(s) or submitted sample(s).

1.1 EN 71-1:2014+A1:2018, "European Standard, Safety of Toys".

- Mechanical and physical properties.

1.2 EN 71-2:2020, "European Standard, Safety of Toys".

- Flammability.

1.3 EN 71-3:2019+A1:2021, European Standard, Safety of Toys

- Migration of Certain Elements.

2. Test Conclusion

Test Item(s)	Conclusion
2.1 EN 71-1:2014+A1:2018, "European Standard, Safety of Toys".	
- Mechanical and physical properties.	PASS
2.2 EN 71-2:2020, "European Standard, Safety of Toys".	
- Flammability.	PASS
2.3 EN 71-3:2019+A1:2021, "European Standard, Safety of Toys".	
- Migration of Certain Elements.	PASS

3. Test Result(s):

3.1 Mechanical and physical properties

Test Method: EN 71-1:2014+A1:2018

Section	Testing Items	Assessment
4	General requirements	PASS
4.1	Material cleanliness	PASS
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	PASS
4.8	Points and metallic, wires	PASS
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA

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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	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles 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	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	Toys disguise costumes	NA
4.27	Flying toys	NA
5	Toy intended for children under 36 months	NA
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 electrical cables in 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	PASS



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7.1	General	PASS
7.2	Toys not intended for children under 36 months	PASS
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	Projectiles 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	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquids-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
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 300mm 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



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**Labeling Requirements:
2009/48/EC – Safety of Toys**

Testing Items	Assessment
Importer's or Manufacturer's Name	YES
Importer's or Manufacturer's address	YES
Product ID	YES
CE mark (≥5mm)	YES

Note: NA = Not Applicable.

3.2 Flammability

Test Method: EN 71-2:2020

Section	Testing Items	Assessment
4	Requirements	PASS
4.1	General requirements	PASS
4.2	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

Note: NA = Not Applicable.



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3.3 Migration of Certain Elements

Test Method: With reference to EN 71-3:2019+A1:2021 Annex E & F& G, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)/Liquid Chromatograph Inductively Coupled Plasma Mass Spectrometer (LC-ICP-MS)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Test Item	Limit (mg/kg)	RL (mg/kg)	Result(mg/kg)
	Category III		No.1
Antimony (Sb)	560	5.0	N.D.
Arsenic (As)	47	2.5	N.D.
Barium (Ba)	18750	5.0	N.D.
Boron (B)	15000	5.0	N.D.
Cadmium (Cd)	17	2.0	N.D.
Chromium(III) (Cr ³⁺) ^{#1}	460	2.0	N.D.
Chromium(VI) (Cr ⁶⁺)	0.053	0.01	N.D.
Cobalt (Co)	130	5.0	N.D.
Copper (Cu)	7700	5.0	N.D.
Lead (Pb)	23	5.0	N.D.
Manganese (Mn)	15000	5.0	N.D.
Mercury (Hg)	94	5.0	N.D.
Nickel (Ni)	930	5.0	N.D.
Selenium (Se)	460	5.0	N.D.
Strontium (Sr)	56000	5.0	N.D.
Tin (Sn)	180000	2.5	N.D.
Organic tin ^{#2}	12	2.0	N.D.
Aluminium (Al)	28130	5.0	N.D.
Zinc (Zn)	46000	5.0	N.D.
Conclusion(S)			PASS

- Note:
1. mg/kg = milligram per kilogram.
 2. RL = Report Limit.
 3. N.D. = Not Detected (< RL).
 4. #1= The migration value of Chromium (III) were calculated by the migration value of chromium subtracted the migration value of chromium (VI).
 5. #2 = The value of organic tin was calculated by summation of the ten organic tin value as following:
Organic tin include Methyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin.



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Migration limits from toy materials:

Substance	Category I		Category II		Category III	
	Limit (mg/kg)	RL (mg/kg)	Limit (mg/kg)	RL (mg/kg)	Limit (mg/kg)	RL (mg/kg)
Antimony (Sb)	45	1.0	11.3	1.0	560	5.0
Arsenic (As)	3.8	0.1	0.9	0.1	47	2.5
Barium (Ba)	1500	5.0	375	5.0	18750	5.0
Boron (B)	1200	5.0	300	5.0	15000	5.0
Cadmium (Cd)	1.3	0.05	0.3	0.05	17	2.0
Chromium(III) (Cr ³⁺)	37.5	1.0	9.4	0.5	460	2.0
Chromium(VI) (Cr ⁶⁺)	0.02	0.001	0.005	0.001	0.053	0.01
Cobalt (Co)	10.5	0.5	2.6	0.1	130	5.0
Copper (Cu)	622.5	5.0	156	5.0	7700	5.0
Lead (Pb)	2.0	0.1	0.5	0.05	23	5.0
Manganese (Mn)	1200	5.0	300	5.0	15000	5.0
Mercury (Hg)	7.5	0.1	1.9	0.1	94	5.0
Nickel (Ni)	75	1.0	18.8	0.5	930	5.0
Selenium (Se)	37.5	1.0	9.4	1.0	460	5.0
Strontium (Sr)	4500	5.0	1125	5.0	56000	5.0
Tin (Sn)	15000	5.0	3750	5.0	180000	2.5
*Organic tin	0.9	0.01	0.2	0.05	12	2.0
Aluminium (Al)	2250	5.0	560	5.0	28130	5.0
Zinc (Zn)	3750	5.0	938	5.0	46000	5.0

1. "*" = Organic tin include Methyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin.
2. RL = Report Limit.
3. Specific element migration requirements include the following toy categories:
 - Category I: Dry, brittle, powdery, or flexible materials
It includes solid toy materials that can release powdery substances during play and semi solid toy materials that can remain on the hands.
(This type of material is easily ingested into the body, and exposure to this type of material on the hands increases the risk of oral contact.)
 - Category II: Liquid or viscous materials.
(i.e., liquid or sticky toy materials that can be ingested or come into contact with the skin during play)
 - Category III: Material that can be scraped off.
(That is, solid toy materials (whether coated or not) can be ingested through biting, tooth scraping, sucking, or licking.)



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4. Sample description

No.1: Red plastic

Photo of the Sample



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Product: Kid's wheelbarrow
Model: WB0201S
Importer: J.A.D. TOOLS s.r.o.
Address: Uničovská 1324/21
784 01 LITOVEL
Manufacturer: QINGDAO BANABA MANUFACTURE TOOLS LTD
Address: YINZHU 266431, JIAONAN, QINGDAO, CHINA
Manufacturer Date: March 30, 2023
Ages: 4-7 years old



Warning. Not suitable for children under 3 years old. Small parts. Choking hazard.

*** End of Report ***



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