



Vantin Testing



中国认可  
国际互认  
检测  
TESTING  
CNAS L9713

# Test Report

Report No.: W2209577

Date: 2022-08-05

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**Applicant** : Frenzy Toys Ltd.

**Address** : Rm.1108, Goodluck Industrial Centre, 808 Lai Chi Kok Rd., Kowloon, Hong Kong.

## Sample Description:

Name of Product / Item	: WATER GUN 3PK 4.5IN 3 CLR PACK
Item No.	: G18310 (GN0016)
Manufacturer	: Shengxian Toys Factory
Country of Destination	: USA
Country of Origin	: China
	Above sample information was submitted and/or identified by client
Quantity of Sample	: 2 sets
Other Information	: WT20220719102
Labeled Age Grading	: 3+
Requested Age Grading	: 3+
Age Group Assessed As Per Age Guideline	: Over 3 years
Age Group Applied in Testing	: Over 3 years
Sample Receiving Date	: 2022-07-20
Sample Resubmitted Date	: 2022-07-25
Testing Period	: 2022-07-20 TO 2022-07-28

## TEST REQUESTED

Standard of Consumer Safety Specification for Toy Safety :

- ASTM F963-17 : Physical and Mechanical Tests
- ASTM F963-17 : Clause 4.2 Flammability Test
- ASTM F963-17 : Clause 4.3.5 Heavy elements

## CONCLUSION

**PASS**  
**PASS**  
**PASS**

\*\*\*\* AS REQUESTED BY THE APPLICANT, PLEASE REFER TO THE FOLLOWING PAGE(S) FOR DETAILS\*\*\*\*

Signed for and on behalf of  
Guangdong Vantin Testing Co., Ltd.  
Shantou Branch



Nancy Wang  
Toy Laboratory Manager



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**ASTM F963 - 17 Standard Consumer Safety Specification for Toy Safety**

As specified in ASTM F963-17 Standard Consumer Safety Specification for Toys Safety.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	<u>Safety Requirements</u>	
4.1	Material Quality	Pass
4.2	Flammability Test	Pass Refer to Appendix 1 for details
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials on the tested specimen(s)	N/A
4.3.5.2	Heavy Elements in Substrate Materials on the tested specimen(s)	Pass Refer to Appendix 2 for details
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels and Powders	N/A
4.3.7	Stuffing Materials	N/A
4.5	Sound-producing Toys	N/A
4.6	Small Objects	N/A
4.7	Accessible Edges	
4.7.1	Accessible sharp edges of metal or glass	N/A
4.7.2	Functional Sharp Edges	N/A
4.7.3	Edges on metal toys	N/A
4.7.4	Edges on molded toys	Pass
4.7.5	Edges on Exposed Bolts or Threaded Rods	N/A
4.8	Projections	Pass
4.9	Accessible Points	



# Test Report

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.9.1	Accessible Sharp Points	Pass*
4.9.2	Functional Sharp Points	N/A
4.9.3	Wooden Toys	N/A
4.10	Wires or Rods	N/A
4.11	Nails & Fasteners	N/A
4.12	Plastic Film	Pass
4.13	Folding Mechanisms & Hinges	N/A
4.14	Cords, Straps, and Elastic	N/A
4.15	Stability & Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires & Axles	N/A
4.18	Holes, Clearance & Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed & Beanbag-Type Toy	N/A
4.28	Stroller and Carriage Toys	N/A
4.29	Art Materials	N/A
4.30	Toy Gun Marking	Pass
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A





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<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo-Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chests	N/A
5.	<u>Safety Labeling Requirements</u>	Pass
6.	<u>Instructional Literature</u>	Pass
7.	<u>Producer's Markings</u>	
7.1	Producer's Markings	Pass
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy Chests	N/A
8.	<u>Test Method</u>	
8.5	Normal Use Testing	Pass
8.6	Abuse Test	Pass
8.7	Impact Test	Pass*
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	N/A
8.11	Tests for Tire Removal and Snap-in Wheel and Axle Assembly Removal	N/A
8.12	Flexure Test	N/A



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**Note:**

- N/A = Not Applicable
- \* The test results are determined by the sample submitted by the client on 2022-07-25.

**Appendix 1:**

**Flammability Test (Clause 4.2)**

**A5. Flammability Testing procedure for Solids and Soft Toys**

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
<u>Water gun</u>	<u>DNI</u>	0.1

Requirement

<u>Classification:</u>	<u>Acceptable Criteria</u>
Solid and Soft goods	DNI/ IBE Burning Rate ≤ 0.1 in/sec.

\* The submitted sample(s) was/were tested, the above result only showed the most severe burn rate of the sample(s).

- DNI = Did Not Ignite
- IBE = Ignite But Self-Extinguished
- Ave. = Average



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## Appendix 2:

### ASTM F963-17 Standard Consumer Safety Specification for Toy Safety

#### ▼ Heavy elements test - Total Lead content

Method: ASTM F963-17 Clause 8.3

The item(s) was/were analyzed by ICP-OES.

Toy substrate materials:

Tested Item(s)	Result (mg/kg)							MDL (mg/kg)	Limit (mg/kg)
	1	2	3	4	5	6	7		
Total Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	100

#### **Specimen Description:**

- 1 transparent orange plastic
- 2 transparent green plastic
- 3 transparent blue plastic with glue
- 4 white plastic
- 5 red plastic
- 6 red soft plastic
- 7 black/white sticker (Sample Resubmitted Date:2022-07-25)

#### **Note:**

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million





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### ▼ Heavy elements test – Migration of certain elements

Method: ASTM F963-17 Clause 8.3

The item(s) was/were analyzed by ICP-OES.

#### Surface Coatings and Substrates Other than Modeling Clay Included as Part of a Toy:

Tested Item(s)	Result (mg/kg)							MDL (mg/kg)	Limit (mg/kg)
	8	9	10	11	12	13	14		
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	90
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	500

#### Specimen Description:

- 8 transparent orange plastic
- 9 transparent green plastic
- 10 transparent blue plastic with glue
- 11 white plastic
- 12 red plastic
- 13 red soft plastic
- 14 black/white sticker (sample weight: 36.9mg)

#### Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical Correction factor (excluding special soluble Cadmium result).
- Filter paper was used instead of 0.45µm membrane filter in lab testing.
- Where the test portion has a mass of between 10mg and 100mg, the quantity of the appropriate elements shall be calculated as if 100mg of the test portion had been used.



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## Sample Photo



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**Applicant** : Frenzy Toys Ltd.  
**Address** : Rm.1108, Goodluck Industrial Centre, 808 Lai Chi Kok Rd., Kowloon, Hong Kong.

## Sample Description:

Name of Product / Item : WATER GUN 3PK 4.5IN 3 CLR PACK  
Item No. : G18310 (GN0016)  
Manufacturer : Shengxian Toys Factory  
Country of Destination : USA  
Country of Origin : China  
Above sample information was submitted and/or identified by client  
Quantity of Sample : 1 set  
Other Information : WT20220719103  
Sample Receiving Date : 2022-07-20  
Sample Resubmitted Date : 2022-07-25  
Testing Period : 2022-07-20 TO 2022-07-28

## TEST REQUESTED

## CONCLUSION

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

Lead in substrate materials of children's products

PASS

US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

PASS

California proposition 65 settlements

- Consent Judgment No. RG- 356892 for total Lead content
- Consent Judgment No. BG-350969 on phthalate content

PASS

PASS

\*\*\*\* AS REQUESTED BY THE APPLICANT, PLEASE REFER TO THE FOLLOWING PAGE(S) FOR DETAILS\*\*\*\*

Signed for and on behalf of  
Guangdong Vantin Testing Co., Ltd.  
Shantou Branch

*Nancy*



Nancy Wang  
Toy Laboratory Manager



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# Test Report

## Test Result

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

#### ▼ Lead in surface-coating and similar materials of children's products

Method: CPSC-CH-E1003-09.1

The item(s) was/were analyzed by ICP-OES.

#### ▼ Lead in substrate materials of children's products

Method(s): CPSC-CH-E1002-08.3

The item(s) was/were analyzed by ICP-OES.

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>							<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	1	2	3	4	5	6	7		
Total Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	100

#### **Specimen Description:**

- 1 transparent orange plastic
- 2 transparent green plastic
- 3 transparent blue plastic with glue
- 4 white plastic
- 5 red plastic
- 6 red soft plastic
- 7 black/white sticker (Sample Resubmitted Date:2022-07-25)

#### Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million



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## ▼ Phthalate Content

Method: CPSC-CH-C1001-09.4

The item(s) was/were analyzed by GC-MS.

Tested Item(s)	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	1+2+4	3+5	6	7		
Di-2-ethylhexyl Phthalate (DEHP)	57	54	N.D.	N.D.	50	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	50	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	50	1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	N.D.	N.D.	50	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	50	1000
Di-n-pentyl Phthalates (DPENP)	N.D.	N.D.	N.D.	N.D.	50	1000
Di-n-hexyl Phthalate (DHEXP)	N.D.	N.D.	N.D.	N.D.	50	1000
Dicyclohexyl Phthalate (DCHP)	N.D.	N.D.	N.D.	N.D.	50	1000
Di-n-octyl Phthalate (DNOP)	N.D.	N.D.	N.D.	N.D.	50	--
Diisodecyl Phthalate (DIDP)	N.D.	N.D.	N.D.	N.D.	50	--

## Specimen Description:

- transparent orange plastic
- transparent green plastic
- transparent blue plastic with glue
- white plastic
- red plastic
- red soft plastic
- black/white sticker (Sample Resubmitted Date:2022-07-25)

## Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000mg/kg = 0.1%
- The limit for composite test should be divided by the mixed number.





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## California proposition 65 settlements

### ▼ Lead Content

Method: CPSC- CH-E1002-08.3

The item(s) was/were analyzed by ICP-OES.

For toys and child care articles

Lead in other materials:

Tested Item(s)	Result (mg/kg)							MDL (mg/kg)	Limit (mg/kg)
	1	2	3	4	5	6	7		
Total Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	100

### **Specimen Description:**

- 1 transparent orange plastic
- 2 transparent green plastic
- 3 transparent blue plastic with glue
- 4 white plastic
- 5 red plastic
- 6 red soft plastic
- 7 black/white sticker (Sample Resubmitted Date:2022-07-25)

### Note:

- MDL = Method Detection Limit
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- mg/kg = ppm = parts per million



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### ▼ Phthalates

Method: CPSC-CH-C1001-09.4

The item(s) was/were analyzed by GC-MS.

Tested Item(s)	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	1+2+4	3+5	6	7		
Di-2-ethylhexyl Phthalate(DEHP)	57	54	N.D.	N.D.	50	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	50	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	50	1000
Diisodecyl Phthalate (DIDP)	N.D.	N.D.	N.D.	N.D.	50	1000
Di-n-hexyl Phthalate (DnHP)	N.D.	N.D.	N.D.	N.D.	50	1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	N.D.	N.D.	50	1000

### Specimen Description:

- 1 transparent orange plastic
- 2 transparent green plastic
- 3 transparent blue plastic with glue
- 4 white plastic
- 5 red plastic
- 6 red soft plastic
- 7 black/white sticker (Sample Resubmitted Date:2022-07-25)

### Note:

- MDL = Method Detection Limit.
- N.D. = Not Detected (<MDL).
- mg/kg = ppm = parts per million.
- Method CPSC-CH-C1001-09.4 was accredited by CNAS on eight phthalates (DEHP, DBP, BBP, DINP, DIBP, DPENP, DNEXP (DnHP), DCHP) test in this report.
- The limit for composite test should be divided by the mixed number.



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## Sample Photo



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