



Vantin Testing



中国认可
国际互认
检测
TESTING
CNAS L9713

Test Report

Report No.: W2209771

Date: 2022-08-05

Page 1 of 9

Applicant : Frenzy Toys Ltd.

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

Sample Description:

Name of Product / Item	: SAND VEHICLE TOYS PLASTIC 4 AST
Item No.	: G18309 (SP0168)
Manufacturer	: CHENGHAI SHANGPIN CRAFT
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	: WT20220722010
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	: 2022-07-25
Testing Period	: 2022-07-25 TO 2022-08-01

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
(ex. Clause 7.1)

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



scan to see the report

Guangdong Vantin Testing Co., Ltd. Shantou Branch
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Test Report

Report No.: W2209771

Date: 2022-08-05

Page 2 of 9

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	
4.6.1	Toys that are intended for children under 36 months of age	N/A
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Toys and games that are intended for use by children who at least three years old but less than six years old	Pass
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

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Test Report

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.7.5	Edges on Exposed Bolts or Threaded Rods	N/A
4.8	Projections	Pass
4.9	Accessible Points	
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	N/A
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	Pass
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

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Test Report

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Page 4 of 9

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
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	See Remark
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



Test Report

Report No.: W2209771

Date: 2022-08-05

Page 5 of 9

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
8.11	Tests for Tire Removal and Snap-in Wheel and Axle Assembly Removal	N/A
8.12	Flexure Test	N/A

Remark: It is drawn to your attention that 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.

Note:

- N/A = Not Applicable



Test Report

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>Blue shovel</u>	<u>DNI</u>	0.1
<u>Yellow shovel</u>	<u>DNI</u>	0.1
<u>Motorboat</u>	<u>DNI</u>	0.1
<u>Airplane submarine</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



Test Report

Report No.: W2209771

Date: 2022-08-05

Page 7 of 9

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:

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>					<u>MDL</u>	<u>Limit</u>
	1	2	3	4	5	(mg/kg)	(mg/kg)
Total Lead (Pb)	40	N.D.	N.D.	N.D.	N.D.	5	100

Specimen Description:

- 1 black plastic
- 2 yellow plastic
- 3 red plastic
- 4 blue plastic
- 5 silver color metal

Note:

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



Test Report

Report No.: W2209771

Date: 2022-08-05

Page 8 of 9

▼ 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)
	6	7	8	9		
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

Specimen Description:

- 6 black plastic
- 7 yellow plastic
- 8 red plastic
- 9 blue plastic

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.



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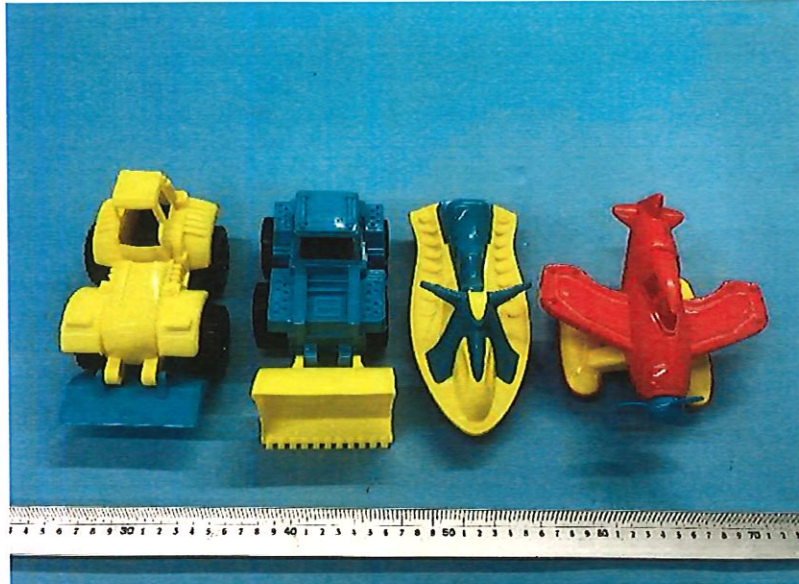
Test Report

Report No.: W2209771

Date: 2022-08-05

Page 9 of 9

Sample Photo



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Page 1 of 6

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Sample Description:

Name of Product / Item : SAND VEHICLE TOYS PLASTIC 4 AST
Item No. : G18309 (SP0168)
Manufacturer : CHENGHAI SHANGPIN CRAFT
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 : WT20220722011
Sample Receiving Date : 2022-07-25
Testing Period : 2022-07-25 TO 2022-08-01

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 Wang
Toy Laboratory Manager



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Report No.: W2209772

Date: 2022-08-05

Page 2 of 6

Test Result

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

▼ Lead in substrate materials of children's products

Method(s): CPSC-CH-E1001-08.3/CPSC-CH-E1002-08.3

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

Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	1	2	3	4	5		
Total Lead (Pb)	40	N.D.	N.D.	N.D.	N.D.	5	100

Specimen Description:

- 1 black plastic
- 2 yellow plastic
- 3 red plastic
- 4 blue plastic
- 5 silver color metal

Note:

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



Test Report

Report No.: W2209772

Date: 2022-08-05

Page 3 of 6

▼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	3+4		
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	50	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	50	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	50	1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	50	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	50	1000
Di-n-pentyl Phthalates (DPENP)	N.D.	N.D.	50	1000
Di-n-hexyl Phthalate (DHEXP)	N.D.	N.D.	50	1000
Dicyclohexyl Phthalate (DCHP)	N.D.	N.D.	50	1000
Di-n-octyl Phthalate (DNOP)	N.D.	N.D.	50	--
Diisodecyl Phthalate (DIDP)	N.D.	N.D.	50	--

Specimen Description:

- 1 black plastic
- 2 yellow plastic
- 3 red plastic
- 4 blue plastic

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.



Test Report

Report No.: W2209772

Date: 2022-08-05

Page 4 of 6

California proposition 65 settlements

▼ Lead Content

Method: CPSC-CH-E1001-08.3 /CPSC- CH-E1002-08.3

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

For toys and child care articles

Lead in other materials:

<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		
Total Lead (Pb)	40	N.D.	N.D.	N.D.	N.D.	5	100

Specimen Description:

- 1 black plastic
- 2 yellow plastic
- 3 red plastic
- 4 blue plastic
- 5 silver color metal

Note:

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



Test Report

Report No.: W2209772

Date: 2022-08-05

Page 5 of 6

▼ 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	3+4		
Di-2-ethylhexyl Phthalate(DEHP)	N.D.	N.D.	50	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	50	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	50	1000
Diisodecyl Phthalate (DIDP)	N.D.	N.D.	50	1000
Di-n-hexyl Phthalate (DnHP)	N.D.	N.D.	50	1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	50	1000

Specimen Description:

- 1 black plastic
- 2 yellow plastic
- 3 red plastic
- 4 blue plastic

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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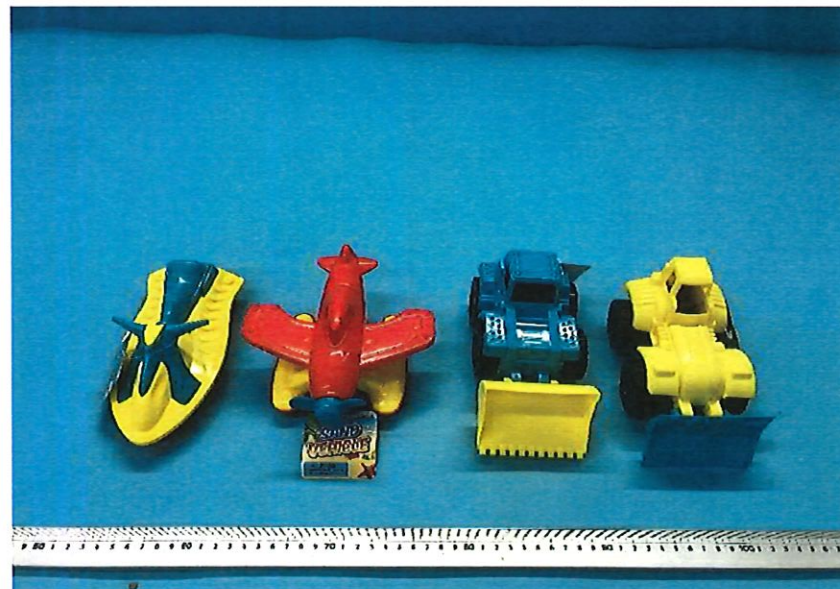
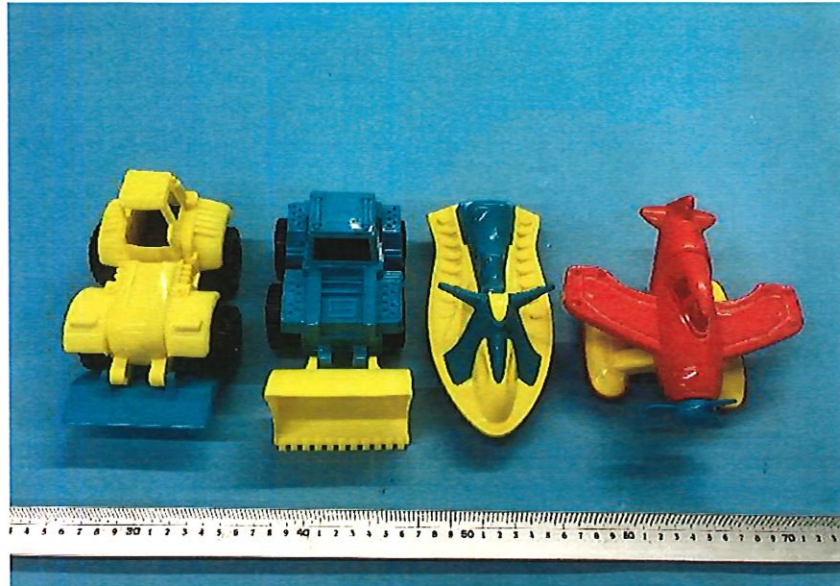
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Date: 2022-08-05

Page 6 of 6

Sample Photo



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