

Test Report

Report No. A2170047106103

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Applicant FLOATERPADDLE

Address 5100 ELDORADO PKWY STE 102-301 MCKINNEY, TX 75070

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

Style No.	EVA foam
Age Grade	8 years old to adult
Manufacturer Name	Zhengtong Technology Co., Ltd.
Manufacturer Address	Room 1202 Guofa Center, 36 Miaoling Road, Qingdao, Shandong, 266061, China
Country of Origin	China
Color	orange
Product Category	swim aid
UPC No.	850572008
Client Specified Age Grading	8 years old to adult
Labeled Age Grading	Ideally for 8 years old and older
Age Group Applied in Testing	Over 8 years
Sample Received Date	Nov. 6, 2017
Sample Resubmitted Date	Nov. 17, 2017
Testing Period	Nov. 6, 2017 to Dec. 13, 2017

Test Conducted:

As requested by the applicant, for details refer to next page(s)

Tested by

Guang Jiang

Reviewed by

Wang

Approved by

Victor Wang

Date

Dec. 13, 2017

Victor Wang
Lab Manager

No. T149814856

Centre Testing International Group Co., Ltd. CTI Building, No.4, Liuxian 3rd road, Xin'an Street, Bao'an District, Shenzhen, P.R.China



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Executive Summary:

TEST REQUEST

CONCLUSION

1) SOR/2011-17 Toys Regulations of Canada Consumer Product Safety Act (CCPSA)	
- Physical and mechanical properties	PASS
- Flammability	PASS
- Heavy metal(Total Lead) content in surface coatings/paint	N/A
- Heavy metal(Mercury) content in surface coatings/paint	N/A
- Heavy metals contents in surface coatings/paint	N/A
- Total Lead content in plastic material	N/A
2) US Consumer Product Safety Improvement Act of 2008 (CPSIA) with amendment (H.R.2715)	
- 16 CFR 1501 Small parts	N/A
- Lead in surface-coatings and similar materials of children's products	N/A
- Lead in substrate materials of children's products	PASS
- Phthalates in children's toys and childcare articles	PASS
3) SOR/2016-193 Surface Coating Materials Regulations of Canada Consumer Product Safety Act (CCPSA)	
- Total Lead content	N/A
- Total Mercury content	N/A
4) Consumer Product Safety Commission 16 CFR Ch.II	
- Mechanical & Physical test	PASS
- 1500.44 Flammability test on solid	PASS
- Part 1303 – Ban of Lead in paint and similar surface coating	N/A
5) European Standard on Safety of Toys	
- EN 71-2:2011+A1:2014 Flammability of Toys	PASS
- EN 71-3:2013+A1:2014 Migration of certain elements	PASS
6) SOR/2016-171 Consumer products containing Lead (contact with mouth) regulations of CCPSA	
- Total Lead content test	N/A

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- 7) ASTM F963-16 Standard Consumer Safety Specification for Toy Safety
 - 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**
- 8) SOR/2016-188 Phthalates Regulations of Canada Consumer Product Safety Act(CCPSA)
 - Phthalates in vinyl plastic material **PASS**
- 9) Annex XVII of European regulation (EC) No. 1907/2006 (REACH) with Amendment(s)
 - Cadmium and its compounds **PASS**
 - Phthalates in toys and childcare articles **PASS**
- 10) Australian / New Zealand standard on safety of toys
 - AS/NZS 8124 Part 2:2016 - Flammability **PASS**
 - AS/NZS 8124 Part 3:2012/Amdt.1:2016 - Migration of certain elements **PASS**

N/A = Not Applicable

***** For Further Details, Please Refer to the Following Page(s) *****

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1) **SOR/2011-17 Toys Regulations of Canada Consumer Product Safety Act (CCPSA)**

▼ **Physical and Mechanical properties**

<u>Section</u>	<u>Description</u>	<u>Assessment</u>
3	Official Languages	Pass
4	Flexible Film Bags.....	Pass
10	Plastic Edges.....	Pass

Test Methods

M00.2	Sharp Edges.....	Pass
M00.3	Sharp Points.....	Pass
M01.1	Reasonable Foreseeable Use.....	Pass
M03	Test for Flexible Film Bags.....	Pass

Note:

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

▼ **Flammability test**

<u>Section</u>	<u>Description</u>	<u>Assessment</u>
21	Celluloid or Cellulose Nitrate.....	Pass

Note:

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

▼ **Heavy metal(Total Lead) content in surface coatings/paint.....N/A**

Method(s) Health Canada Product Safety Reference Manual Book 5 - Laboratory Policies and Procedures Part B: Test Methods Section, Method C-02.2 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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▼ **Heavy metal(Mercury) content in surface coatings/paint**.....**N/A**

Method(s) Health Canada Product Safety Reference Manual Book 5 - Laboratory Policies and Procedures

Part B: Test Methods Section, Method C-07 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)

▼ **Heavy metals contents in surface coatings/paint**.....**N/A**

Method(s) Health Canada Product Safety Reference Manual Book 5 - Laboratory Policies and Procedures

Part B: Test Methods Section, Method C-03 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)

▼ **Total Lead content in plastic material**.....**N/A**

Method(s) Health Canada Product Safety Reference Manual Book 5 - Laboratory Policies and Procedures

Part B: Test Methods Section, Method C-02.2 was/were used, and the item(s) was/were analyzed by ICP-OES.

N/A= Not Applicable

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

▼ **16 CFR 1501 Small parts**.....**N/A**

As Specified in Title 16 Part 1501, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A.

N/A= Not Applicable

▼ **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)

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▼ 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.

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001		
Total Lead (Pb)	N.D.	5	100

Remark:

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

▼ Phthalates in children's toys and childcare articles

Method(s) CPSC-CH-C1001-09.3 was/were used, and the item(s) was/were analyzed by GC-MS.

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001		
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	30	1000
Diisononyl Phthalate (DINP)	N.D.	50	1000
Di-n-octyl Phthalate (DNOP)	N.D.	30	1000
Diisodecyl Phthalate (DIDP)	N.D.	50	1000

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%

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3) **SOR/2016-193 Surface Coating Materials Regulations of Canada Consumer Product Safety Act (CCPSA)**

▼ **Total Lead content**.....**N/A**

Method(s) Health Canada Product Safety Reference Manual Book 5 - Laboratory Policies and Procedures
Part B: Test Methods Section, Method C-02.2 was/were used, and the item(s) was/were analyzed by ICP-OES.

N/A= Not Applicable

▼ **Total Mercury content**.....**N/A**

Method(s) Health Canada Product Safety Reference Manual Book 5 - Laboratory Policies and Procedures
Part B: Test Methods Section, Method C-07 was/were used, and the item(s) was/were analyzed by ICP-OES.

N/A= Not Applicable

4) **Consumer Product Safety Commission 16 CFR Ch.II**

▼ **Mechanical & Physical**

As specified in Title 16, Code of Federal Regulation, Chapter II – Consumer Products Safety Commission of U.S.A.

Tested Item(s)	Sharp point (1500.48)	Sharp edge (1500.49)	Small part (1501)
As Received	Pass	Pass	N/A

N/A = Not Applicable

▼ **1500.44 Flammability Test on Solid**

As Specified In Title 16 Part 1500.44 Code of Federal Regulations U.S.A

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

- DNI = Did Not Ignite

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▼ **Part 1303 – Ban of Lead in paint and similar surface coating** **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)

5) European Standard on Safety of Toys

▼ **Flammability of Toys**

As specified in European Standard on Safety of Toys EN 71 part 2:2011+A1:2014.

<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 71-2:2011+A1:2014 : Celluloid, materials with the same behaviour in fire as celluloid, materials with a piled surface which produce surface flash, flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels.)	Pass

Note:

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

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▼ Migration of certain elements

Method(s) EN 71-3:2013+A1:2014 was/were used, and the item(s) was/were analyzed by ICP-OES, ICP-MS, HPLC-ICP-MS and/or GC-MS.

Category III: scraped-off toy material

Tested Item(s)	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	001		
Aluminium (Al)	N.D.	50	70000
Antimony (Sb)	N.D.	5	560
Arsenic (As)	N.D.	5	47
Barium (Ba)	N.D.	50	18750
Boron (B)	N.D.	50	15000
Cadmium (Cd)	N.D.	1	17
Chromium (III) ^{#1}	N.D.	0.2	460
Chromium (VI)	N.D.	0.002	0.2
Cobalt (Co)	N.D.	5	130
Copper (Cu)	N.D.	50	7700
Lead (Pb)	N.D.	5	160
Manganese (Mn)	N.D.	50	15000
Mercury (Hg)	N.D.	5	94
Nickel (Ni)	N.D.	5	930
Selenium (Se)	N.D.	5	460
Strontium (Sr)	N.D.	50	56000
Tin (Sn) ^{#2}	N.D.	2	180000
Organic tin (TBT) ^{#3}	N.D.	0.05	12
Zinc (Zn)	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)), where the chromium content exceeded the limits of hexavalent chromium and/or trivalent chromium, then hexavalent chromium was analyzed by HPLC-ICP-MS and trivalent chromium content was calculated using the formula.
- ^{#2} Tin(Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2013+A1:2014.
- ^{#3} The migration of organic tin is expressed as tributyltin (TBT). where the tin content exceeded the limit of organic tin, ten organic tins listed in table were determined by GC-MS and the client should be noted there are other organic tins may be present in toy materials.

Organic tins tested under EN 71-3:2013+A1:2014
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)

6) SOR/2016-171 Consumer products containing Lead (contact with mouth) regulations of CCPSA

▼ Total Lead content test

Method(s) Canadian Product Safety Reference Manual Book 5 Method C-02 was/were used, and the item(s) was/were analyzed by ICP-OES.

N/A = Not Applicable

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7) **ASTM F963-16 Standard Consumer Safety Specification for Toy Safety**

▼ **Clause 4.2 Flammability of toys**

As specified in ASTM F963-16 standard consumer safety specification for toy safety.

Flammability Test on Solid

<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
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 F963-16 Clause 8.3 was/were used, and the item(s) was/were analyzed by ICP-OES.

Toy substrate materials:

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	001		
Total Lead (Pb)	N.D.	5	100

Remark:

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

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▼ Clause 4.3.5 Heavy elements – Migration of certain elements

Method(s) ASTM F963-16 Clause 8.3 was/were used, and the item(s) was/were determined by ICP-OES.

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

8) SOR/2016-188 Phthalates Regulations of Canada Consumer Product Safety Act(CCPSA)

▼ Phthalates in vinyl plastic material

Method(s) Health Canada Product Safety Reference Manual Book 5 - Laboratory Policies and Procedures Part B: Test Methods Section, Method C-34 was/were used, and the item(s) was/were analyzed by GC-MS.

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	001		
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	30	1000
Diisononyl Phthalate (DINP)	N.D.	50	1000
Di-n-octyl Phthalate (DNOP)	N.D.	30	1000
Diisodecyl Phthalate (DIDP)	N.D.	50	1000

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Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%

9) Annex XVII of European regulation (EC) No. 1907/2006 (REACH) with Amendment(s)

▼ Cadmium and its compounds

As specified in entry 23, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendments No.552/2009 & No.494/2011 & No.835/2012 & No. 2016/217, method(s) US EPA 3050B:1996 & US EPA 6010D:2014 & EN 1122:2001(E) Method B was/were used, and the item(s) was/were analyzed by ICP-OES.

Tested Item(s)	Result (mg/kg)	MDL	Limit
		(mg/kg)	(mg/kg)
Cadmium (Cd)	001 N.D.	2	100

Remark:

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

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▼ Phthalates in toys and childcare articles

As specified in entry 51 & entry 52, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendment No.552/2009 & No. 2015/326, method(s) EN 14372:2004 was/were used, and the item(s) was/were analyzed by GC-MS.

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u>	<u>Limit</u>
	001	(mg/kg)	(mg/kg)
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	30	--
Dibutyl Phthalate (DBP)	N.D.	30	--
Benzylbutyl Phthalate (BBP)	N.D.	30	--
SUM(DEHP+DBP+BBP)	N.D.	--	1000
Diisononyl Phthalate (DINP)	N.D.	50	--
Di-n-octyl Phthalate (DNOP)	N.D.	30	--
Diisodecyl Phthalate (DIDP)	N.D.	50	--
SUM(DINP + DNOP + DIDP)	N.D.	--	1000

Remark:

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- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%

10) Australian / New Zealand standard on safety of toys

As specified in Australian/New Zealand standard on safety of toys AS/NZS 8124 Part 2:2016.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	Requirements	
4.1	General (The following materials shall not be used in the manufacture of toys except as specified in AS/NZS 8124 Part 2:2016: Celluloid, materials with a piled surface which produce surface flash, flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids, and flammable solids.)	Pass

Note:

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

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▼ **AS/NZS 8124 Part 3:2012/Amdt.1:2016 - Migration of certain elements**

Method(s) AS/NZS 8124.3:2012/Amdt 1:2016 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		
Soluble Antimony (Sb)	N.D.	5	60
Soluble Arsenic (As)	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	5	75
Soluble Chromium (Cr)	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	5	90
Soluble Mercury (Hg)	N.D.	2.5	60
Soluble Selenium (Se)	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.

Tested Sample/Part Description

001 Orange foam

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Photo(s) of the sample(s)



*** End of Report ***

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