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CNAS L1744

## SHANTOU DAHENG TECHNOLOGY CO., LTD.

**Technical Report:** (8823)254-0017(A)

Date Received: Sep 11, 2023

Sep 19, 2023

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SHANTOU DAHENG TECHNOLOGY CO., LTD.  
NO. 10, WEST SECOND ROAD, OLD STATE ROAD, HUAINAN  
VILLAGE, LIANXIA TOWN, CHENGHAI DISTRICT, SHANTOU  
CITY, GUANGDONG PROVINCE, CHINA

Sample Description:	REMOTE CONTROL CAR	Sample Size:	7
Vendor:	N/A	Item No(s):	SEE ATTACHMENT
Manufacturer:	N/A	SKN/SKU No.:	NOT PROVIDE
Labeled Age Grade:	DH-190: FOR AGES 14 UP, DH-290: 8 AGES	PO No.:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	Ref #:	NOT PROVIDE
Client Specified Age Grade:	8+	Country of Origin:	NOT PROVIDE
Tested Age Grade:	OVER 8 YEARS OF AGE	Assortment No.:	NOT PROVIDE
UPC Code:	N/A	Test Finished Date:	SEP 19, 2023
Test Starting Date:	SEP 11, 2023		

### EXECUTIVE SUMMARY:

Test Requested	Conclusion
<b>(#)Mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".</b>	PASS
<b>(#)Labeling requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".</b>	PASS
<b>(#)Flammability requirement of solids under ASTM F963-17 section 4.2 according to Annex A5, "Flammability testing procedure for solids and soft toys".</b>	PASS

To be continued

BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

*Lisa Bai*

Lisa Bai  
Analytical lab technical ass. manager



BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

*Tone Tang*

Tone Tang  
Physics Lab Assistant Supervisor

RT/ Carmen Xiong

### REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 89952999 Ext. 8175 CPSAnalytical.DG@bureauveritas.com

Business Contact: (86) 0769 85893595

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**EXECUTIVE SUMMARY:**

Test Requested	Conclusion
<b>(#)Total lead content in surface coating requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.3.5.1(1).</b>	PASS
<b>(#)Total lead content in substrate requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.3.5.2(2)(a).</b>	PASS
<b>(#)Soluble heavy metals content in surface coating requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2).</b>	PASS
<b>(#)Soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).</b>	PASS
Total lead content requirements in children products according to the California Proposition 65 settlements of Alameda Superior Court RG 07356892.	PASS
BBP, DBP, DEHP, DnHP and DIDP content requirements in toys, child care articles and watches according to the California Proposition 65 settlements of County of Sacramento case number 07AS04683, and the Alameda Superior Court case numbers BG07350969, RG08367601, RG07351032 and RG08378050.	PASS

Note: At the request of the client, the sample(s) was evaluated for use by children 8+.

Note: At the request of the client, ASTM F963-17 the Section 4.25 about Battery-Operated Toys requirement(s) was waived for this submission.

Note: At the request of client, test(s) was conducted on the certain component(s) of the submitted samples(s) / submitted component(s).

Note: The composite test sample(s) of the submitted samples was prepared in the manner requested by the client, when subject to the test performed.

Note: Tests with (#) are accredited by CNAS.

**ATTACHMENT:**

Item No(s):

DH-100 DH-200 DH-300 DH-400 DH-500 DH-600 DH-700 DH-800 DH-900 DH-110 DH-120  
DH-130 DH-140 DH-150 DH-160 DH-170 DH-180 DH-190 DH-210 DH-220 DH-230 DH-240  
DH-250 DH-260 DH-270 DH-280 DH-290 DH-310 DH-320 DH-330 DH-340 DH-350 DH-360  
DH-370 DH-380 DH-390 DH-410 DH-420 DH-430 DH-440 DH-450 DH-460 DH-470 DH-480  
DH-490 DH-510 DH-520 DH-530 DH-540 DH-550 DH-560 DH-570 DH-580 DH-590 DH-610  
DH-620 DH-630 DH-640 DH-650 DH-660 DH-670 DH-680 DH-690 DH-710 DH-720 DH-730  
DH-740 DH-750 DH-760 DH-770 DH-780 DH-790 DH-810 DH-820 DH-830 DH-840 DH-850  
DH-860 DH-870 DH-880



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**Tested Component(s) Description List:**

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Red plastic	Car	-
I002	Blue plastic	Car	-
I003	Black plastic	Car	-
I004	Green plastic	Wheel	-
I005	Transparent red plastic	Car light	-
I006	Red soft plastic	Tire	-
I007	Blue soft plastic	Tire	-
I008	Grey soft plastic	Tire	-
I009	White soft plastic	Wire	-
I010	Green coating	Surface of car	-



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**RESULTS:**

**APPROPRIATE AGE GRADE DETERMINATION**

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-17, "Standard Consumer Safety Specification on Toy Safety". Annex A1

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.



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**RESULTS:**

**PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)**

Section	Requirement	Result
4.1	Material Quality	M
4.3.7	Stuffing Materials	N/A
4.5	Sound-Producing Toys	M
4.6	Small Objects	N/A
4.7	Accessible Edges	N/A
4.8	Projections	N/A
4.9	Accessible Points	N/A
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	N/A
4.12	Plastic Film	N/A
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearances and 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(exclude Section 4.25.10 Battery-powered ride-on toys & Section 4.25.11 Toys that Contain Secondary Cells or Secondary Batteries)	NT
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.30	Toy Gun Marking	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.34	Small 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

M = Meet    NM = Not Meet    N/A = Not Applicable    R = Refer to Comment Section



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**RESULTS:**

**LABELING AND INSTRUCTIONAL REQUIREMENT (ASTM F963-17)**

Section	Requirement	Result
5.4 & 5.3	Aquatic Toys	N/A
5.5 & 5.3	Crib and Playpen Toys	N/A
5.6 & 5.3	Mobiles	N/A
5.7 & 5.3	Stroller and Carriage Toys	N/A
5.8 & 5.3	Toys Intended to be Assembled by an Adult	N/A
5.9 & 5.3	Simulated Protective Devices	N/A
5.10 & 5.3	Toys with Functional Sharp Edges or Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19)	N/A
5.12	Toy Caps (16CFR1500.86)	N/A
5.13	Art Materials (16 CFR 1500.14(b)(8))	N/A
5.15	Battery-Operated Toys (exclude 5.15.1 and 5.15.2)	N/A
5.15.1 & 5.3	Battery-Powered Ride-On Toys	N/A
5.15.2 & 5.3	Button or Coin Cell Batteries	N/A
5.16	Promotional Materials	M
5.17 & 5.3	Magnets	N/A
6.1	Definition and Description	M
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4 & 5.3	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	NT
6.6	Battery-Powered Ride-On Toys	N/A
6.7	Toys in Contact with Food	N/A
7.1	Producer's Name and Address	M
7.2	Battery-Powered Ride-on Toys	N/A

M = Meet    NM = Not Meet    N/A = Not Applicable    R = Refer to Comment Section

**FLAMMABILITY (16 CFR SECTION 1500.3(c)(6)(vi))**

Requirement	Test Method Reference	Findings
Burn rate no greater than 0.1 of an inch per second	16 CFR 1500.44	Most rapid burn rate less than 0.1 of an inch per second.



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**RESULTS:**

**Total Lead Content in Surface Coating – ASTM International Standard ASTM F963-17, Section 4.3.5.1(1)**

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Maximum Allowable Limit :	90 mg/kg
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Test Item(s)	Result	Unit	Conclusion
	Total Lead (Pb)		
I010	ND	mg/kg	PASS

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10

**Total Lead Content in Substrate – ASTM International Standard ASTM F963-17, Section 4.3.5.2(2)(a)**

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Maximum Allowable Limit :	100 mg/kg
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Test Item(s)	Result	Unit	Conclusion
	Total Lead (Pb)		
I001+I002+I003	ND	mg/kg	PASS
I004+I005	ND	mg/kg	PASS
I006+I007	ND	mg/kg	PASS
I008+I009	ND	mg/kg	PASS

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10



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**RESULTS:**

**Soluble Heavy Metals Content in Surface Coating –ASTM F963-17, Section 4.3.5.1(2)**

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.2 to 8.3.4

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit (mg/kg)	25	1000	75	60	60	90	60	500
Analytical Correction (%)	60	30	30	30	50	30	60	60

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Test Item(s)	Result (mg/kg)								(g)	
I010	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS

Note / key:

As = Arsenic

Ba = Barium

Cd = Cadmium

Cr = Chromium

Hg = Mercury

Pb = Lead

Sb = Antimony

Se = Selenium

ND = Not detected

g = gram(s)

% = percent

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50





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## RESULTS:

### Soluble Heavy Metals Content in Substrate –ASTM F963-17, Section 4.3.5.2(2)(b)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3))

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500
Max. Limit Type II (mg/kg)	25	250	50	25	25	90	60	500
Analytical Correction (%)	60	30	30	30	50	30	60	60

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Test Item(s)	Result (mg/kg)								(g)	
Type I: Substrate other than modeling clay										
I001	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I002	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I003	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I004	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I005	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I006	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I007	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I008	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I009	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS

Note / key:

As = Arsenic      Ba = Barium      Cd = Cadmium      Cr = Chromium  
Hg = Mercury      Pb = Lead      Sb = Antimony      Se = Selenium  
ND = Not detected      g = gram(s)      % = percent  
mg/kg = milligram(s) per kilogram (ppm=parts per million)  
Detection Limit (mg/kg) :  
For Type I – As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50  
For Type II – Each (As, Cr & Hg) : 2.5; Ba : 25; Cd : 5.0; Sb : 6.0; Pb : 9.0; Se : 50

Remark:

- Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.



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**RESULTS:**

**Total Lead Content in Children Products (California Proposition 65 settlements of Alameda Superior court RG 07356892)**

Test Method : EPA 3050B (Mod) / EPA 3051A (Mod)

Maximum Allowable Limit:	Type I	Paint and surface coatings: 90 mg/kg
	Type II	Substrate materials: 100 mg/kg

Test Item(s)	Type	Result	Unit	Conclusion
		Total Lead (Pb)		
I001+I002+I003	II	ND	mg/kg	PASS
I004+I005	II	ND	mg/kg	PASS
I006+I007	II	ND	mg/kg	PASS
I008+I009	II	ND	mg/kg	PASS
I010	I	ND	mg/kg	PASS

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10

Remark:

CA65 Lead content are not accredited by CNAS.



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## **RESULTS:**

**BBP/DBP/DEHP/DnHP/DIDP Phthalates Content Requirements in Toys, Child Care Articles and Watches – California Proposition 65 settlements of County of Sacramento case number 07AS04683, and the Alameda Superior Court case numbers BG07350969, RG08367601, RG07351032 and RG08378050**

Test Method : With reference to U. S. CPSC-CH-C1001-09.4 (January 17, 2018)

Test Parameter:	BBP	DBP	DEHP	DnHP	DIDP	-
Limit (%):	0.1	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)					Conclusion
I006+I007+I009	ND	ND	ND	ND	ND	PASS

Note / key:

BBP = Butyl benzyl phthalate

DBP = Dibutyl phthalate

DEHP = Di(2-ethylhexyl) phthalate

DnHP = Di-n-hexyl phthalate

DIDP = Di-iso-decyl phthalate

ND = Not detected

% = percent

10000 mg/kg = 1 %

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005

Remark:

California proposition 65 phthalates content are not accredited by CNAS.

**RESULTS:**



END OF REPORT