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SHANTOU CITY CHENGHAI XIESHENG PLASTIC TOYS FACTORY

Technical Report: (8821)113-0057(R1)

May 12, 2021

Date Received: Apr 22, 2021

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SHANTOU CITY CHENGHAI XIESHENG PLASTIC TOYS FACTORY
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE,
CHINA

Sample Description:	ELECTRONIC RAIL CAR SERIES		
Vendor:	N/A	Sample Size:	3
Manufacturer:	SHANTOU CITY CHENGHAI XIESHENG PLASTIC TOYS FACTORY	Item No.:	SEE ATTACHMENT
Labeled Age Grade:	6+ AGES	SKN/SKU No.:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	PO No.:	NOT PROVIDE
Client Specified Age Grade:	3+	Ref #:	NOT PROVIDE
Tested Age Grade:	OVER 3 YEARS OF AGE	Country of Origin:	NOT PROVIDE
UPC Code:	N/A	Assortment No.:	NOT PROVIDE
Test Starting Date:	APR 22, 2021	Test Finished Date:	MAY 12, 2021

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- (#)- **The mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".**
- (#)- **The labeling requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".**
- (#)- **The battery-operated toys test requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.25 .**

To be continued

BUREAU VERITAS SHENZHEN CO.,LTD
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RT/ Aurora Fang

REMARK

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

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EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

(#)- The flammability requirement of solids under ASTM F963-17 section 4.2 according to Annex A5, "Flammability testing procedure for solids and soft toys".

- Total Lead Content- California Proposition 65 Settlement.

(#)- Phthalates Content - California Proposition 65 Settlement.

(#)- ASTM F963-17 "Standard consumer safety specification for toy safety," Section 4.3.5.2.Total Lead content in substrate material.

(#)- ASTM F963-17 "Standard consumer safety specification for toy safety," Section 4.3.5.2.Soluble Heavy Metals content in substrate material.

(#)- ASTM F963-17 "Standard consumer safety specification for toy safety," Section 4.3.5.1. Total Lead content in surface coating.

(#)- ASTM F963-17 "Standard consumer safety specification for toy safety," Section 4.3.5.1.Soluble Heavy Metals content in surface coating.

Note: Tests with (#) accredited under CNAS testing standard.

Note: At the request of the client, the sample(s) was evaluated for use by children 3+.

Note: At the request of the client, the ASTM F963-17 labeling requirement(s) was not evaluated for this submission.

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.

ATTACHMENT:

Item No.:

XT-01、XT-02、XT-03、XT-04、XT-05、XT-06、XT-07、XT-08、XT-09、XT-10、XT-11、XT-12、XT-13、XT-14、XT-15、XT-16、XT-17、XT-18、XT-19、XT-20、281、282、283、284、285、286、287、288、289、290、266、223L、260、259、258、253、252、251、250、249、248、247、246、245、244、243、242、241、240、239、238、237、236、235、234、233、3388A、209A、209、208A、208、207A、207、206A、206、192、191、190、189、188、187、186、185、177、175、174、172、171、170、169、86、77、72、70、69、68、67、66、64、63、62、61、41、40、1、2363、2352、2351、2350、2085



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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.

USE AND ABUSE TESTS

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable		
Test	Test Parameters	Standard Reference
Impact Test	4 x 3 ft	1500.53(b)
Torque Test	4 in-lbs	1500.53(e)
Tension Test	15 lbs	1500.53(f)
Compression Test	30 lbs	1500.53(g)



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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	M
4.8	Projections	M
4.9	Accessible Points	M
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	M
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	M
4.18	Holes, Clearances and Accessibility of Mechanisms	M
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	M
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

RESULTS:



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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	N/A
5.17 & 5.3	Magnets	N/A
6.1	Definition and Description	N/A
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	N/A
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:

Tested Component(s) Description List:

Description of Specimen :
 P1 Red plastic
 P2 Black plastic
 P3 Gold electroplating
 P4 Silver electroplating
 P5 Black soft plastic

Total Lead content - California Proposition 65 Settlement[^]

Method Used: CPSC-CH-E1001-08.3&CPSC-CH-E1002-08.3&CPSC-CH-E1003-09.1,analyzed by Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Test Parameter(s)	Unit	Result(s)		Limit
		P1	P2	
Lead(Pb)	mg/kg	N.D.	N.D.	Coating: <90 Substrate: <100
Conclusion		Pass	Pass	-

Test Parameter(s)	Unit	Result(s)		Limit
		P3	P4	
Lead(Pb)	mg/kg	N.D.	N.D.	Coating: <90 Substrate: <100
Conclusion		Pass	Pass	-

Note(s):

1. ND denotes Not Detected
- 2.mg/kg= milligram(s) per kilogram = ppm = part(s) per million
3. Method Detection Limit:10mg/kg

Remark:

[^]"The above results was performed at a Bureau Veritas CPS approved subcontract lab.

Total Lead content - California Proposition 65 Settlement is not accredited under CNAS testing standard.



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RESULTS:

Phthalates content—California Proposition 65 Settlement[^]

Method Used: CPSC testing method CPSC-CH-C1001-09.4, analyzed by Gas Chromatography with Mass Selective Detector

Test Parameter(s)	CAS No.	Result(s) (mg/kg)	Limit(mg/kg)
		<u>P5</u>	
Dibutyl phthalate(DBP)	84-74-2	0.0087	1000
Butyl benzyl phthalate(BBP)	85-68-7	N.D.	1000
Di (2-ethylhexyl) phthalate(DEHP)	117-81-7	0.0145	1000
Di-n-octyl phthalate(DNOP)	117-84-0	0.0121	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0/ 68515-48-0	N.D.	1000
Di-iso-decyl phthalate(DIDP)	26761-46-0/ 68515-49-1	N.D.	1000
Di-n-hexyl phthalate(DNHP)	84-75-3	N.D.	1000
Conclusion		Pass	--

Note(s):

1. ND denotes Not Detected
- 2.mg/kg= milligram(s) per kilogram = ppm = part(s) per million
3. Method Detection Limit:50mg/kg

Total Lead content in substrate material -ASTM F963-17 Section 4.3.5.2[^]

Method: ASTM F963-17 Section 8.3.1and Annex A7, was analyzed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-OES).

Test Parameter(s)	Result(s)(mg/kg)		Limit (mg/kg)
	<u>P1</u>	<u>P2</u>	
Total Lead (Pb)	N.D.	N.D.	100
Conclusion	Pass	Pass	-

Note(s):

1. Method Detection Limit:10 mg/kg

Remark:

[^]"The above results was performed at a Bureau Veritas CPS approved subcontract lab.



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RESULTS:

Soluble heavy metals content in substrate material - ASTM F963-17 Section 4.3.5.2^

Method: ASTM F963-17 Section 8.3.5, analyzed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-OES).

Test Parameter(s)	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Conclusion
Limit (mg/kg)	60	25	1000	75	60	90	60	500	
Material No.	Result(s)(mg/kg)								Pass
<u>P1</u>	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
<u>P2</u>	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Pass

Note:

1. mg/kg = milligram per kilogram:2 mg/kg
2. N.D. = Not Detected (< MDL)

Total lead content in paint and surface coating - ASTM F963-17 section 4.3.5.1^

Method: ASTM F963-17 Section 8.3.1 and Annex A7, was analyzed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-OES).

Test Parameter(s)	Result(s)(mg/kg)		Limit (mg/kg)
	<u>P3</u>	<u>P4</u>	
Total Lead (Pb)	N.D.	N.D.	90
Conclusion	Pass	Pass	-

Note(s):

1. Method Detection Limit:10 mg/kg

Soluble heavy metals content in surface coating - ASTM F963-17 Section 4.3.5.1^

Method: ASTM F963-17 Section 8.3.5, analyzed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-OES).

Test Parameter(s)	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Conclusion
Limit (mg/kg)	60	25	1000	75	60	90	60	500	
Material No.	Result(s)(mg/kg)								Pass
<u>P3</u>	N.D.	N.D.	11	N.D.	N.D.	N.D.	N.D.	N.D.	
<u>P4</u>	N.D.	N.D.	11	N.D.	N.D.	N.D.	N.D.	N.D.	Pass

Note:

1. mg/kg = milligram per kilogram:2 mg/kg
2. N.D. = Not Detected (< MDL)

Remark:

“^”The above results was performed at a Bureau Veritas CPS approved subcontract lab.

This report is to Supersede BV(Dong guan) report No. (8821)113-0057 dated on May 7, 2021.



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RESULTS:



END OF REPORT