

Test Report

Report No.: SZT09042808284

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Client : CSP INC
Address : PO BOX 1157 GLENDALE AZ. 85311

Report on the submitted sample said to be:

Sample Name : 3-D Race Car
Item No. : K04-901
Buyer : Kids' Korner
Quantity of Sample : 16 pcs
Country of Origin : Others
Exported to : U.S.A
Client Specified Age Grading : Over 3 years
Labelled Age Grading : Not stated
Age Group Applied in Testing : Over 3 years
Sample Received Date : May.14, 2009
Resubmitted Sample Date : Jun.06, 2009
Sample Tested Date : May.14, 2009 to Jun. 08, 2009

TEST REQUEST

- 1)ASTM F963-08 Standard Consumer Safety Specification for Toy Safety
- 2)US Consumer Products Safety Improvement Act 2008 (CPSIA)
- Lead in surface-coatings and similar materials of children's product
- Lead in substrate materials of children's product
- Phthalates in children's toys and child care articles

CONCLUSION

PASS

PASS
PASS
PASS

Test Results: Please refer to next page(s)

Inspected by: Maggie
Engineer

Approved by: Victor wang
Lab Manager

Approved date: 2009-06-08



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1) ASTM F963 –08

AS SPECIFIED IN ASTM F963-08 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.	Safety Requirements	
4.1	Material Quality (Visual Examination).....	Pass
4.2	Flammability Test.....	Pass (See Note 1)
4.3	Toxicology	
4.3.5	Paint & Similar Surface-coating Material.....	Pass (See Note 2)
4.6	Small Objects.....	Pass
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
4.17	Wheels, Tires & Axles.....	Pass
5.	Safety Labeling Requirements	
5.2	Age Grading Labeling.....	Pass
5.3	Safety Labeling Requirements.....	Pass
5.11	Small Objects, Small Balls, Marbles, and Balloons.....	Pass
7.	Producers Markings	
7.1	Producers Markings.....	Pass
8.	Test Method	
8.5	Normal Use Testing.....	Pass
8.7	Impact Test	Pass
8.8	Torque Test.....	Pass
8.9	Tension Test.....	Pass

Note 1:

Flammability Test (Clause 4.2)

Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
3-D Race Car	0.02	0.1

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Note 2 :

ASTM F963-08 CLAUSE 4.3.5 - PAINT & SIMILAR SURFACE-COATING MATERIAL

Heavy Metals Analysis : Total Lead (Clause 4.3.5.1)

Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result(mg/kg)</u>									<u>Limit</u> (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Total Lead	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	600

Tested Components:

- (1) Multi-color coating(paper card)(Speed 4wd super 1)
- (2) Silver electro-plated coating(tyre) (Speed 4wd super 1)
- (3) Multi-color coating(paper card) (Speed 4wd super 2)
- (4) Multi-color coating(paper card) (Speed 4wd super 3)
- (5) Multi-color coating(paper card) (Speed 4wd super 4)
- (6) Multi-color coating(paper card) (Speed 4wd super 5)
- (7) Multi-color coating(paper card) (Speed 4wd super 6)
- (8) Multi-color coating(paper card) (Speed 4wd super 7)
- (9) Multi-color coating(paper card) (Speed 4wd super 8)

Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

Acid Extraction Method was Used in accord with ASTM F963-08 (Clause 8.3) and Toxic Elements Content were Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Elements</u>	<u>Result (mg/kg)</u>									<u>Limit</u> (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Soluble Antimony (Sb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25
Soluble Barium (Ba)	<5	<5	76	95	7	<5	<5	<5	<5	1000
Soluble Cadmium (Cd)	<5	<5	<5	<5	<5	<5	<5	<5	<5	75
Soluble Chromium (Cr)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	60
Soluble Lead (Pb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	90
Soluble Mercury (Hg)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	60
Soluble Selenium (Se)	<5	<5	<5	<5	<5	<5	<5	<5	<5	500

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Tested Components:

- (1) Multi-color coating(paper card) (Speed 4wd super 7)
- (2) Multi-color coating(paper card) (Speed 4wd super 8)
- (3) Multi-color coating(paper card)(Speed 4wd super 1)
- (4) Silver electro-plated coating(tyre) (Speed 4wd super 1)(Sample weight:26.0mg)
- (5) Multi-color coating(paper card) (Speed 4wd super 2)
- (6) Multi-color coating(paper card) (Speed 4wd super 3)
- (7) Multi-color coating(paper card) (Speed 4wd super 4)
- (8) Multi-color coating(paper card) (Speed 4wd super 5)
- (9) Multi-color coating(paper card) (Speed 4wd super 6)

Remark:

- \leq Less than
- mg/kg = Milligram per kilogram based on dry weight of sample
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor
- 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.

Note:

- Only applicable clauses were shown.

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2) US CONSUMER PRODUCTS SAFETY IMPROVEMENT ACT 2008 (CPSIA)

▼ LEAD IN SURFACE-COATING AND SIMILAR MATERIALS OF CHILDREN'S PRODUCT

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA) and Title 16 Part 1303 Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A, Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result (ppm)</u>									<u>Limit^{#1}</u> (ppm)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Total Lead (Pb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	600

Tested Components:

- (1) Multi-color coating(paper card) (Speed 4wd super 7)
- (2) Multi-color coating(paper card) (Speed 4wd super 8)
- (3) Multi-color coating(paper card)(Speed 4wd super 1)
- (4) Silver electro-plated coating(tyre) (Speed 4wd super 1)
- (5) Multi-color coating(paper card) (Speed 4wd super 2)
- (6) Multi-color coating(paper card) (Speed 4wd super 3)
- (7) Multi-color coating(paper card) (Speed 4wd super 4)
- (8) Multi-color coating(paper card) (Speed 4wd super 5)
- (9) Multi-color coating(paper card) (Speed 4wd super 6)

Remark:

- < = Less than
- ppm= parts per million based on dry weight of sample
- ^{#1} = The total Lead limit for surface coatings and similar materials will be **90ppm** (Effective Date : August 14, 2009)

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▼ LEAD IN SUBSTRATE MATERIALS OF CHILDREN'S PRODUCT

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA), Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Element	Result (ppm)								Limit #2 (ppm)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Total Lead (Pb)	<5	<5	<5	<5	52	<5	<5	<5	600

Element	Result (ppm)								Limit #2 (ppm)
	(9)	(10)	(11)	(12)	(13)	(14)	(15)		
Total Lead (Pb)	<5	<5	<5	<5	<5	<5	<5	<5	600

Tested Components:

- (1) White/grey paperboard(Speed 4wd super 1)
- (2) White foam(Speed 4wd super 1)
- (3) Black plastic(Speed 4wd super 1)
- (4) Silver electro-plated metal(Speed 4wd super 1)
- (5) Grey-white plastic(Speed 4wd super 1)
- (6) Green plastic(Speed 4wd super 1)
- (7) Blue plastic(Speed 4wd super 1)
- (8) Grey-blue plastic(Speed 4wd super 2)
- (9) Purple-black plastic(Speed 4wd super 2)
- (10) Red plastic(Speed 4wd super 3)
- (11) Dk. green plastic(Speed 4wd super 4)
- (12) Dk. blue plastic(Speed 4wd super 5)
- (13) Orange-red plastic(Speed 4wd super 5)
- (14) Flesh plastic(Speed 4wd super 5)
- (15) Dk. grey plastic(Speed 4wd super 5)

Remark:

- < = Less than
- ppm= parts per million based on dry weight of sample
- #2= The total Lead limit for substrate materials will be **300ppm** (Effective Date : August 14, 2009)

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▼ PHTHALATES IN CHILDREN'S TOY AND CHILD CARE ARTICLES

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA) ,Solvent extraction Method was Used and phthalates were Determined by Gas Chromatograph with Mass Spectrometer (GC-MS).

Material(s) in toys and childcare articles				
<u>Tested Item</u>	<u>Result (%)</u>			<u>Limit#</u> (%)
	(1)/(2)/(3)	(4)/(5)/(6)	(7)/(8)/(9)	
Di-2-ethylhexyl Phthalate (DEHP)	<0.003	<0.003	<0.003	0.1
Dibutyl Phthalate (DBP)	<0.003	<0.003	0.016	0.1
Benzylbutyl Phthalate (BBP)	<0.003	<0.003	<0.003	0.1

Material(s) in toys and childcare articles					
<u>Tested Item</u>	<u>Result (%)</u>				<u>Limit#</u> (%)
	(10)/(11)/(12)	(13)	(14)	(15)	
Di-2-ethylhexyl Phthalate (DEHP)	<0.003	<0.003	0.010	0.010	0.1
Dibutyl Phthalate (DBP)	<0.003	<0.003	0.036	0.059	0.1
Benzylbutyl Phthalate (BBP)	<0.003	<0.003	<0.003	<0.003	0.1

Material(s) in toys and childcare articles					
<u>Tested Item</u>	<u>Result (%)</u>				<u>Limit</u> (%)
	(16)	(17)	(18)	(19)	
Di-2-ethylhexyl Phthalate (DEHP)	0.012	0.012	0.013	0.023	0.1
Dibutyl Phthalate (DBP)	0.059	0.054	0.051	0.084	0.1
Benzylbutyl Phthalate (BBP)	<0.003	<0.003	<0.003	<0.003	0.1

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Material(s) in toys and childcare articles			
<u>Tested Item</u>	<u>Result (%)</u>		<u>Limit (%)</u>
	(20)	(21)	
Di-2-ethylhexyl Phthalate (DEHP)	0.015	0.016	0.1
Dibutyl Phthalate (DBP)	0.071	0.058	0.1
Benzylbutyl Phthalate (BBP)	<0.003	<0.003	0.1

Material(s) in toys that can be placed in mouth and childcare articles				
<u>Tested Item</u>	<u>Result (%)</u>			<u>Limit# (%)</u>
	(1)/(2)/(3)	(4)/(5)/(6)	(7)/(8)/(9)	
Diisononyl Phthalate (DINP)	<0.005	<0.005	<0.005	0.1
Di-n-octyl Phthalate (DNOP)	<0.003	<0.003	<0.003	0.1
Diisodecyl Phthalate (DIDP)	<0.005	<0.005	<0.005	0.1

Material(s) in toys that can be placed in mouth and childcare articles					
<u>Tested Item</u>	<u>Result (%)</u>				<u>Limit# (%)</u>
	(10)/(11)/(12)	(13)	(14)	(15)	
Diisononyl Phthalate (DINP)	<0.005	<0.005	<0.005	<0.005	0.1
Di-n-octyl Phthalate (DNOP)	<0.003	<0.003	<0.003	<0.003	0.1
Diisodecyl Phthalate (DIDP)	<0.005	<0.005	<0.005	<0.005	0.1

Material(s) in toys that can be placed in mouth and childcare articles					
<u>Tested Item</u>	<u>Result (%)</u>				<u>Limit# (%)</u>
	(16)	(17)	(18)	(19)	
Diisononyl Phthalate (DINP)	<0.005	<0.005	<0.005	<0.005	0.1
Di-n-octyl Phthalate (DNOP)	<0.003	<0.003	<0.003	<0.003	0.1
Diisodecyl Phthalate (DIDP)	<0.005	<0.005	<0.005	<0.005	0.1

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Material(s) in toys that can be placed in mouth and childcare articles			
<u>Tested Item</u>	<u>Result (%)</u>		<u>Limit#</u> (%)
	(20)	(21)	
Diisononyl Phthalate (DINP)	<0.005	<0.005	0.1
Di-n-octyl Phthalate (DNOP)	<0.003	<0.003	0.1
Diisodecyl Phthalate (DIDP)	<0.005	<0.005	0.1

Tested Components:

- (1) White foam(Speed 4wd super 1)
- (2) Black plastic(Speed 4wd super 1)
- (3) Grey-white plastic(Speed 4wd super 1)
- (4) Green plastic(Speed 4wd super 1)
- (5) Blue plastic(Speed 4wd super 1)
- (6) Grey-blue plastic(Speed 4wd super 2)
- (7) Purple-black plastic(Speed 4wd super 2)
- (8) Red plastic(Speed 4wd super 3)
- (9) Dk.green plastic(Speed 4wd super 4)
- (10) Dk.blue plastic(Speed 4wd super 5)
- (11) Orange-red plastic(Speed 4wd super 5)
- (12) Flesh plastic(Speed 4wd super 5)
- (13) Dk.grey plastic(Speed 4wd super 5)
- (14) Multi-color coating(paper card)(Speed 4wd super 1)
- (15) Multi-color coating(paper card) (Speed 4wd super 2)
- (16) Multi-color coating(paper card) (Speed 4wd super 3)
- (17) Multi-color coating(paper card) (Speed 4wd super 4)
- (18) Multi-color coating(paper card) (Speed 4wd super 5)
- (19) Multi-color coating(paper card) (Speed 4wd super 6)
- (20) Multi-color coating(paper card) (Speed 4wd super 7)
- (21) Multi-color coating(paper card) (Speed 4wd super 8)

Remark:

- <= Less than
- %= Percentage based on dry weight of sample
- # = The limit for the test result is 1/n of the value column (where “1/n” is the number of mixed samples)

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Photo of the sample



*** End of report ***

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