

E-mail:info@cti-cert.com

Hotline 400-6788-333





Report No.: SZT09042808284

Page 2 of 10

1) ASTM F963 -08

AS SPECI	FIED IN ASTM F963-08 STANDARD CONSUMER SAFETY SPECIFICA	TION FOR TOY
SAFETY.		
Clause	Description	Assessment
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

<u>Note 1:</u>

Flammability Test (Clause 4.2)	
Flammability Test on Solid	
Sample	
3-D Race Car	





Burning Rate (inch/sec) 0.02 Limit (inch/sec) 0.1

> Hotline 400-6788-333



Report No.: SZT09042808284

Page 3 of 10

Hotline

400-6788-333

<u>Note 2 :</u>

CTI

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>				Res	<u>sult(</u> mg/	/kg)				<u>Limit</u>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(mg/kg)
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).

Elements				Res	<u>ult</u> (mg	/kg)				<u>Limit</u>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(mg/kg)
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



Page 4 of 10

Tested Components:

CTI

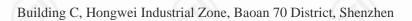
- (1) Multi-color coating(paper card) (Speed 4wd super 7)
- (2) Multi-color coating(paper card) (Speed 4wd super 8)
- (3) Multi-color coating(paper card)(Speed 4wd super 1)
- (4) Silver electro-plated coating(tyre) (Speed 4wd super 1)(Sample weight:26.0mg)
- (5) Multi-color coating(paper card) (Speed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

- < = 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.





Hotline



CTI

Page 5 of 10

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).

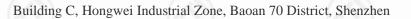
Element		<u>Result</u> (ppm)						Limit ^{#1}		
6	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(ppm)
Total Lead (Pb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	600

Tested Components:

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





Hotline



Report No.: SZT09042808284

CTI

Page 6 of 10

▼ 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).

<u>Element</u>	<u>Result</u> (ppm)								
(\mathcal{C}^{*})	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(ppm)
Total Lead (Pb)	<5	<5	<5	<5	52	<5	<5	<5	600
Element Result (ppm)									Limit ^{#2}
	(9)	(10)	(11)) (1	2)	(13)	(14)	(15)	(ppm)
Total Lead (Pb)	<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:

- \cdot < = 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)





CTI

Page 7 of 10

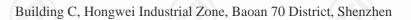
▼ <u>PHTHALATES IN CHILDREN'S TOY AND CHILD CARE ARTICLES</u>

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).

Tested Item		Limit#		
	(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

Tested Item		Limit#			
	(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

16)	(17)	(18)	(19)	(%)
012	0.012	0.013	0.023	0.1
059	0.054	0.051	0.084	0.1
(059 0.054	059 0.054 0.051	059 0.054 0.051 0.084



Hotline



Ì





Report No.: SZT09042808284

Page 8 of 10

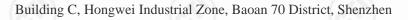
Material(s) in toys and childcare articles

Tested Item	Resul	Limit	
	(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 child	care articles		
Tested Item		Result (%)		Limit#
	(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

Tested Item	<">	<u>Result</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		

Tested Item	<u>Result</u> (%)				Limit#
	(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









Page 9 of 10

Tested Item	Result	Limit#	
	(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)

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen



E-mail:info@cti-cert.com

Hotline



Report No.: SZT09042808284



Hotline

400-6788-333

Photo of the sample



*** End of report ***

This report is considered invalidated without the Special Seal for Inspection of the CTI, This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of CTI, this test report shall not be copied except in full and published as advertisement.