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Approved Laboratory of The Woolmark Company

Members of :

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British Standards Institute

Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report

Number: HKGH01640905

Applicant: INTEK INTERNATIONAL LIMITED
RM 401A 4/F TUNG SUNG COMML CTR
194-200 LOCKHART RD
WANCHAI
HK
Attn: MR PATRICIO TIBERI / DENIS LAI

Date: May 13, 2014

Submitted sample said to be :
Item Name : **Hot Wheels Racing Battle Case**
Item No. : **HWCC4**
Quantity : 6 sets
Labelled Age Group : "5+"
Packaging Provided : Yes

Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) ASTM F963-11 - Physical and mechanical tests	Pass
(2) ASTM F963-11 - Flammability test of materials other than textile materials	Pass
(3) ASTM F963-11 - Soluble heavy elements test	Pass
(4) ASTM F963-11 - Total Lead content	Pass

To be continued

For and on behalf of :
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung
Vice President





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Conclusion:

<u>Requirement</u>	<u>Result</u>
(5) U.S. CFR Title 16 (CPSC Regulations) Part 1500.48, 1500.49 & 1501 - Sharp point, Sharp edge & Small part	Pass
(6) U.S. CFR Title 16 (CPSC Regulations) - Part 1500.3(c)(6)(vi) - Flammability test on rigid and pliable solids	Pass
(7) U.S. CFR Title 16 (CPSC Regulations) - Part 1303 - Total Lead content in surface coating	Pass
U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in surface coating	Pass
(8) U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in non-surface coating materials (substrate)	Pass
(9) U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 108 - Phthalate content	Pass
(10) California Health and Safety Code, Part 3 of Division 104, Chapter 11 (AB1108) - Requirement on phthalate	Pass
(11) California Proposition 65 for toys (designed for or reasonable used by children under six years of age), Consent Judgement no. BG-350969 / RG-356892 - Lead content	See details enclosed
(12) California Proposition 65 for Toys (designed for or reasonable used by children under six years of age), Consent judgment no. BG-350969 - Phthalate content	See details enclosed
(13) Illinois Lead Poisoning Prevention Act 410 ILCS 45 - Total Lead content	Pass

For and on behalf of :
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung
Vice President



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Tests Conducted

(1) Physical and Mechanical Tests

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-11.

Age group for testing : For ages over 5 years.

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations : -		
<u>Test</u>	<u>FHSA</u>	<u>Parameter</u>
Drop test	Section 1500.53(b)	4 x 3.0 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf
Compression test	Section 1500.53(g)	30 lbf

<u>Section</u>	<u>Testing items</u>	<u>Assessment</u>
4.1	Material quality (visual check on cleanliness)	P
4.5	Sound-producing toys	NA
4.6.1	Toys intended for children under 36 months (small objects)	NA
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months (small part warning)	NA
4.7	Accessible edges	P
4.8	Projections	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	P
4.12	Packaging film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps and elastics	NA
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA





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Section	Testing items	Assessment
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	Yoyo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw entrapment in handles and steering wheels	NA
5	Labelling requirement	P
6	Instructional literature	P
7	Producer's markings - name of producer/distributor (toy and package) - address (toy and package)	Yes Yes

Remark : P = Pass

NA= Not applicable

The submitted samples were undergone the tests in accordance with section 8.5 through section 8.17 and 8.19 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

Date sample received : Apr 30, 2014
Testing period : Apr 30, 2014 to May 06, 2014

(2) Flammability Test

Test Standard : Section 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-11.

Result : Did not ignite

Date sample received : Apr 30, 2014
Testing period : Apr 30, 2014 to May 06, 2014



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Tests Conducted

(3) Heavy Elements Analysis

Test Method : Sections 8.3.2, 8.3.3, 8.3.4 and 8.3.5 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-11, acid extraction and analysed by Inductively Coupled Argon Plasma Spectrometry.

	Result in ppm						Limit ppm
	(1)	(2)	(3)	(4)	(5)	(6)	
Sol. Barium (Ba)	<5	<5	<5	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25

Sol. = Soluble

ppm = parts per million = mg/kg

Tested Components :

- (1) Coatings on paper sheet (instruction sheet).
- (2) Silver colour coating on plastic (logo).
- (3) Paper label with plastic film (sticker).
- (4) Blue plastic (body, handle).
- (5) Black plastic (stand, body, handle).
- (6) Orange plastic (track).

Date sample received : Apr 30, 2014

Testing period : Apr 30, 2014 to May 09, 2014



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(4) Total Lead (Pb) Content

Test Method : Sections 4.3.5.1(1) and 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification for Toy Safety F963-11, CPSC-CH-E1001-08.1, CPSC-CH-E1002-08.1 or/and CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

(I) Surface coating

Tested Component	Result in ppm	Limit (ppm)
(1)	<20	90
(2)	<20	90

(II) Non-surface coating

Tested Component	Result in ppm	Limit (ppm)
(3)	<20	100
(4/5/6)	<20	100
(7)	<20	100

ppm = parts per million = mg/kg

Tested Components :

- (1) Coatings on paper sheet (instruction sheet).
- (2) Silver colour coating on plastic (logo).
- (3) Paper label with plastic film (sticker).
- (4) Blue plastic (body, handle).
- (5) Black plastic (stand, body, handle).
- (6) Orange plastic (track).
- (7) Silver colour metal (axle).

Date sample received : Apr 30, 2014

Testing period : Apr 30, 2014 to May 09, 2014



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(5) Physical and Mechanical Test

Test Standard : U.S. code of Federal Regulations Title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Age group for testing : For ages over 3 years.

	No. of sample tested	Sharp point (1500.48)	Sharp edge (1500.49)	Small part (1501)
As received	1	P	P	NA
Impact (1500.53 (b))	1	P	P	NA
Flexure (1500.53 (d))	0	NA	NA	NA
Torque (1500.53 (e))	1	P	P	NA
Tension (1500.53 (f))	1	P	P	NA
Compression (1500.53 (g))	1	P	P	NA

Remark : P = Pass
NA = Not applicable

Date sample received : Apr 30, 2014
Testing period : Apr 30, 2014 to May 06, 2014

(6) Flammability Test

Test Standard : U.S. Code of Federal Regulations Title 16 Part 1500.44 for rigid and pliable solids.

Result : Did not ignite

Date sample received : Apr 30, 2014
Testing period : Apr 30, 2014 to May 06, 2014

(7) Total Lead (Pb) Content in Surface Coating

Test Method : Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, test method CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<20	90
(2)	<20	90

ppm = parts per million = mg/kg

Tested Components :

- (1) Coatings on paper sheet (instruction sheet).
- (2) Silver colour coating on plastic (logo).

Date sample received : Apr 30, 2014
Testing period : Apr 30, 2014 to May 09, 2014





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(8) Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method : Standard Operating Procedures for Determining Total Lead (Pb) in Children's Products, test methods CPSC-CH-E1002-08.1 and/or CPSC-CH-E1001.08.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<20	100
(2/3/4)	<20	100
(5)	<20	100

ppm = parts per million = mg/kg

Tested Components :

- (1) Paper label with plastic film (sticker).
- (2) Blue plastic (body, handle).
- (3) Black plastic (stand, body, handle).
- (4) Orange plastic (track).
- (5) Silver colour metal (axle).

Date sample received : Apr 30, 2014

Testing period : Apr 30, 2014 to May 09, 2014



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Tests Conducted

(9) Phthalate Content Test

Test Standard : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (% w/w)				Limit (% w/w) (max.)
	(1)	(2)	(3)	(4/5/6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	<0.01	0.1

Remark : The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.

Tested Components :

- (1) Coatings on paper sheet (instruction sheet).
- (2) Silver colour coating on plastic (logo).
- (3) Paper label with plastic film (sticker).
- (4) Blue plastic (body, handle).
- (5) Black plastic (stand, body, handle).
- (6) Orange plastic (track).

Date sample received : Apr 30, 2014
 Testing period : Apr 30, 2014 to May 08, 2014



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Tests Conducted

(10) Phthalate Content Test

Test Method : ASTM D3421, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (% w/w)				Limit (% w/w) (max.)
	(1)	(2)	(3)	(4/5/6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	<0.01	0.1

Remark : The above limit was quoted according to California Health and Safety Code, Part 3 of Division 104, Chapter 11 prohibiting the sales of toys and child care articles made with phthalates (AB1108).

Tested Components :

- (1) Coatings on paper sheet (instruction sheet).
- (2) Silver colour coating on plastic (logo).
- (3) Paper label with plastic film (sticker).
- (4) Blue plastic (body, handle).
- (5) Black plastic (stand, body, handle).
- (6) Orange plastic (track).

Date sample received : Apr 30, 2014
 Testing period : Apr 30, 2014 to May 08, 2014



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Tests Conducted

(11) Total Lead (Pb) content

Test Method: Acid digestion and analysed by Inductively Coupled Argon Plasma Spectrometry.

(I) Surface coating

Tested Component	Result in %	Limit in %
(1)	<0.002	0.009
(2)	<0.002	0.009

(II) Non-surface coating

Tested Component	Result in %	Limit in %
(3)	<0.002	0.01
(4/5/6)	<0.002	0.01
(7)	<0.002	0.01

The above limit was quoted from the Consent Judgement no. BG-350969, RG-356892 settled by Superior Court of the State of California for the County of Alameda, for toys based on the California Proposition 65.

Tested Components :

- (1) Coatings on paper sheet (instruction sheet).
- (2) Silver colour coating on plastic (logo).
- (3) Paper label with plastic film (sticker).
- (4) Blue plastic (body, handle).
- (5) Black plastic (stand, body, handle).
- (6) Orange plastic (track).
- (7) Silver colour metal (axle).

Date sample received : Apr 30, 2014

Testing period : Apr 30, 2014 to May 09, 2014



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Tests Conducted

(12) Phthalate Content Test

Test method: Solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (% w/w)				Limit (% w/w) (max.)
	(1)	(2)	(3)	(4/5/6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DnHP)	<0.01	<0.01	<0.01	<0.01	0.1

Remark : The above limit was quoted from the Consent Judgment no. BG-350969 settled by superior court of the state of California for the county of Alameda, for Toys (designed for or reasonable used by children under six years of age) based on the California Proposition 65.

Tested Components :

- (1) Coatings on paper sheet (instruction sheet).
- (2) Silver colour coating on plastic (logo).
- (3) Paper label with plastic film (sticker).
- (4) Blue plastic (body, handle).
- (5) Black plastic (stand, body, handle).
- (6) Orange plastic (track).

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(13) Total Lead (Pb) content

Test Method : Illinois Lead Poisoning Prevention Act 410 ILCS 45, acid digestion method and analysed by Inductively Coupled Argon Plasma Spectrometry.

(I) Surface coating

Tested Component	Result in %	Warning Statement Limit in %	Limit in %
(1)	<0.002	0.004	0.009
(2)	<0.002	0.004	0.009

(II) Non-surface coating

Tested Component	Result in %	Warning Statement Limit in %	Limit in %
(3)	<0.002	--	0.01
(4/5/6)	<0.002	--	0.01
(7)	<0.002	--	0.01

Tested Components :

- (1) Coatings on paper sheet (instruction sheet).
- (2) Silver colour coating on plastic (logo).
- (3) Paper label with plastic film (sticker).
- (4) Blue plastic (body, handle).
- (5) Black plastic (stand, body, handle).
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End of report

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