



STC Test Report

Date : 2008-12-12
No. : HP190651

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Applicant (SHF003) :

- Description of Samples :** Four groups of submitted sample said to be:
- (A) One hundred and four pieces of DIECAST METAL & PLASTIC TOYS CAR(see attached photo)
 - 1.NO.9581-4 4½” EMERGENCY TEAM
 - 2.NO.9822 4¾” CLASSIC PICK UP
 - 3.NO.9838 4¾” CITY PICK UP
 - 4.NO.9761-12 MILITARY TEAM
 - 5.NO.9821 4¾” CLASSIC PICK UP
 - STYLE/ITEM NO.: 9581-4,9821,9822,9838,9761-12
 - COUNTRY OF ORIGIN: CHINA
 - (B) Two pieces of final package used for (A)
 - (C) Two pieces of final package used for (A)
 - (D) One piece of final package used for (A)
- Date Samples Received :** 2008-09-11,2008-10-06,2008-10-13,2008-10-23, 2008-11-13, 2008-11-15
- Date Tested :** 2008-09-11 to 2008-12-09
- Investigation Requested :**
- (1) ASTM Standard Consumer Safety Specification on Toy Safety, F963-07^{E1}:
 - physical and mechanical tests
 - flammability test
 - heavy metals content
 - (2) Title 16, Code of Federal Regulations, CPSC of U.S.A.
 - physical and mechanical test
 - flammability tests
 - lead content
 - (3) USA Consumer Product Safety Improvement Act (HR4040)
 - 1. Children’s products containing lead - Total Lead content in accordance with Sec. 101(a).
 - 2. Phthalates content in accordance with Sec 108

WONG Yau-wai, Johnny

Toys & Children’s Products Department
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong
Tel: (852) 26661888 Fax: (852) 26644353 E-mail: hkstc@hkstc.org Homepage: www.hkstc.org

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Conclusion

: ASTM F963-07^{E1}: physical and mechanical tests
The submitted sample complied with the test requirement.

ASTM F963-07^{E1}: flammability test
The submitted sample complied with the test requirements.

ASTM F963-07^{E1}: heavy metals content
The submitted sample complied with the test requirements.

CPSC: physical and mechanical tests
The submitted sample complied with the test requirement.

CPSC: flammability test
The submitted sample complied with the test requirement.

CPSC: total lead content
The submitted sample complied with the test requirement.

USA Consumer Product Safety Improvement Act (HR4040),
Total Lead content in children's products, Sec 101(a)
The submitted sample complied with the test requirement.

USA Consumer Product Safety Improvement Act (HR4040),
phthalates content in accordance with Sec 108
The submitted sample complied with the test requirement.

WONG Yau-wai, Johnny

Toys & Children's Products Department

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AGE GRADING:

The sample was appropriately age graded with the marking of "Not for children under 36 months".

AGE GRADING FOR TESTING:

36 months and up.

Test Results :

1. ASTM F963-07^{E1}

1.1 Mechanical and physical hazards

Ref.: ASTM F963-07^{E1}

Applicable requirements before and after use and abuse testing:

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	
4.1	Material quality (by visual assessment)	Pass
4.2	Flammability	Pass* ¹
4.3	Toxicology	Pass* ¹
4.5	Sound-Producing Toys	Pass* ²
4.7	Accessible edges	Pass
4.8	Projections	Pass
4.9	Accessible points	Pass
4.11	Nails and Fasteners	Pass
4.17	Wheels, Tires, and Axles	Pass
5	<u>Labeling requirements</u>	
5.1	Federal government requirements	Pass
5.2	Age grading labeling	Pass
5.3	Safety labelling requirements	Pass
5.11	Small objects, small balls, marbles and balloons	Pass
7	<u>Producer's markings</u>	
7.1	Name and address of the producer or distributor	Pass* ³

Use and abuse testing:

<u>Applicable section</u>	<u>Description</u>	<u>Test Condition</u>
8.6	Abuse testing	
8.7	Impact tests	4 drops at 3ft.
8.8	Torque tests	4 in-lbs.
8.9	Tension tests	15 lbs.
8.10	Compression tests	30 lbs.

*¹ = Refer to the relevant test results at the following pages.

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*² =

<u>Sample</u>	<u>Measured</u>	<u>Limit</u>
Military team 9761-12	80.5dB	85dB
Military team 9761-10	76.1dB	85dB
Classic pick up 9822	77.8dB	85dB
Classic pick up 9821	82.8dB	85dB
City pick up truck 9838	75.4dB	85dB
Emergency team	81.2dB	85dB
Military team 9761-9	80.3dB	85dB
Military team 9761-8	78.6dB	85dB

*³ = There was no producer's markings on the submitted sample.

1.2 Flammability test of materials other than textile

Ref.: ASTM F963-07^{E1} Section 4.2

Method used: FHSA 16 CFR 1500.44

Result: Pass

<u>Sample</u>	<u>Burn rate (in/sec.)</u>
Item 9761	0.02
Item 9821	0.02
Item 9838	0.02
Item 9822	0.02
Item 9581	DNI

Burn rate: 0.01 in/sec.

DNI = Did Not Ignite.

Note: In accordance with the FHSA, the burning rate should not be greater than 0.1 inch per second.

1.3 Heavy metals analysis

Ref.: ASTM F963-07^{E1} Section 4.3.5

Total lead analysis

Coating materials

- (a) Lights/grille/bumper/wheels (9821 - #1/#2/#3/#4 / 9822 - #1/#2/#3/#4 / 9581-4 - #2/#3/#4) / bumper/wheels (9838 - #1/#2/#3/#4) / grille/bumper/wheels (9581-4 - #1) / grille/wheels (9761-12 - #1/#6/#7/#8/#9/#12/#13) / lights/wheels (9761-12 - #2/#3/#4/#5/#10/#11/#14): shiny silver
- (b) Body (9821 - #1): red/silver
- (c) Body (9821 - #2): ivory white/silver
- (d) Body (9821 - #3): black/silver
- (e) Body (9821 - #4): metallic green/silver
- (f) Body (9838 - #1): silver
- (g) Body (9838 - #2): metallic green
- (h) Body (9838 - #3): yellow
- (i) Body (9838 - #4): red
- (j) Body (9822 - #1): ivory white

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- (k) Body (9822 - #2): metallic blue
- (l) Body (9822 - #3): dull red
- (m) Body (9822 - #4): light green
- (n) Body (9581 - #1): red/white
- (o) Body (9581 - #2): white/black
- (p) Body (9581 - #3): blue/white
- (q) Body (9581 - #4): black/white
- (r) Sticker (9581-4 - #2/#3/#4): blue/yellow
- (s) Body (9581 - #1/#2/#3/#4): beige/brown/white
- (t) Body (9761-12 - #8/#9/#10/#11/#12/#13/#14): green/dull green/white

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
a	<0.005%	0.06%
b	<0.005%	0.06%
c	<0.005%	0.06%
d	<0.005%	0.06%
e	<0.005%	0.06%
f	<0.005%	0.06%
g	<0.005%	0.06%
h	<0.005%	0.06%
i	<0.005%	0.06%
j	<0.005%	0.06%
k	<0.005%	0.06%
l	<0.005%	0.06%
m	<0.005%	0.06%
n	<0.005%	0.06%
o	<0.005%	0.06%
p	<0.005%	0.06%
q	<0.005%	0.06%
r	<0.005%	0.06%
s	<0.005%	0.06%
t	<0.005%	0.06%

Soluble metals test

Coating materials*⁴

- (a) Lights/grille/bumper/wheels (9821 - #1/#2/#3/#4 / 9822 - #1/#2/#3/#4 / 9581-4 - #2/#3/#4) / bumper/wheels (9838 - #1/#2/#3/#4) / grille/bumper/wheels (9581-4 - #1) / grille/wheels (9761-12 - #1/#6/#7/#8/#9/#12/#13) / lights/wheels (9761-12 - #2/#3/#4/#5/#10/#11/#14): shiny silver(see Note 1)
- (b) Body (9821 - #1): red/silver(see Note 1)
- (c) Body (9821 - #2): ivory white/silver(see Note 1)
- (d) Body (9821 - #3): black/silver(see Note 1)
- (e) Body (9821 - #4): metallic green/silver(see Note 1)
- (f) Body (9838 - #1): silver(see Note 1)
- (g) Body (9838 - #2): metallic green(see Note 1)
- (h) Body (9838 - #3): yellow(see Note 1)
- (i) Body (9838 - #4): red(see Note 1)
- (j) Body (9822 - #1): ivory white(see Note 1)
- (k) Body (9822 - #2): metallic blue(see Note 1)

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- (l) Body (9822 - #3): dull red(see Note 1)
- (m) Body (9822 - #4): light green(see Note 1)
- (n) Body (9581 - #1): red/white(see Note 1)
- (o) Body (9581 - #2): white/black(see Note 1)
- (p) Body (9581 - #3): blue/white(see Note 1)
- (q) Body (9581 - #4): black/white(see Note 1)
- (r) Body (9581 - #1/#2/#3/#4): beige/brown/white(see Note 1)
- (s) Body (9761-12 - #8/#9/#10/#11/#12/#13/#14): green/dull green/white(see Note 1)

Note2: There were insufficient polymeric material to produce the test portion of 100 mg in one sample. According to the Standard, the quantities of the elements were calculated as if 100 mg of test portion had been used. The actual weights of the specified polymeric material used for analysis were shown below:

(a)	Shiny silver.....	17mg
(b)	Red/silver.....	17mg
(c)	Ivory white/silver.....	11mg
(d)	Black/silver.....	10mg
(e)	Metallic green/silver.....	18mg
(f)	Silver.....	10mg
(g)	Metallic green.....	32mg
(h)	Yellow.....	15mg
(i)	Red.....	12mg
(j)	Ivory white.....	31mg
(k)	Metallic blue.....	14mg
(l)	Dull red.....	15mg
(m)	Light green.....	13mg
(n)	Red/white.....	13mg
(o)	White/black.....	15mg
(p)	Blue/white.....	11mg
(q)	Black/white.....	68mg
(r)	Beige/brown/white.....	21mg
(s)	Green/dull green/white.....	10mg

*4 = The blue/yellow of sticker(9581-4- #2/3/#4) coating was insufficient to form a testing materials of 10mg; hence, it was not tested in accordance with the Standard.

	<u>a</u>	<u>b</u>	<u>c</u>	<u>Limit</u>
Soluble lead.....	<2ppm	<2ppm	<2ppm	90ppm
Soluble cadmium.....	<2ppm	<2ppm	<2ppm	75ppm
Soluble chromium.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble barium.....	2ppm	2ppm	2ppm	1000ppm
Soluble antimony.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble selenium.....	<2ppm	<2ppm	<2ppm	500ppm

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	<u>d</u>	<u>e</u>	<u>f</u>	<u>Limit</u>
Soluble lead.....	<2ppm	<2ppm	<2ppm	90ppm
Soluble cadmium.....	<2ppm	<2ppm	<2ppm	75ppm
Soluble chromium.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble barium.....	<2ppm	<2ppm	<2ppm	1000ppm
Soluble antimony.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble selenium.....	<2ppm	<2ppm	<2ppm	500ppm

	<u>g</u>	<u>h</u>	<u>i</u>	<u>Limit</u>
Soluble lead.....	<2ppm	<2ppm	<2ppm	90ppm
Soluble cadmium.....	<2ppm	<2ppm	<2ppm	75ppm
Soluble chromium.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble barium.....	<2ppm	3ppm	<2ppm	1000ppm
Soluble antimony.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble selenium.....	<2ppm	<2ppm	<2ppm	500ppm

	<u>j</u>	<u>k</u>	<u>l</u>	<u>Limit</u>
Soluble lead.....	<2ppm	<2ppm	<2ppm	90ppm
Soluble cadmium.....	<2ppm	<2ppm	<2ppm	75ppm
Soluble chromium.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble barium.....	<2ppm	<2ppm	<2ppm	1000ppm
Soluble antimony.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble selenium.....	<2ppm	<2ppm	<2ppm	500ppm

	<u>m</u>	<u>n</u>	<u>o</u>	<u>Limit</u>
Soluble lead.....	<2ppm	<2ppm	<2ppm	90ppm
Soluble cadmium.....	<2ppm	<2ppm	<2ppm	75ppm
Soluble chromium.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble barium.....	<2ppm	55ppm	<2ppm	1000ppm
Soluble antimony.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble selenium.....	<2ppm	<2ppm	<2ppm	500ppm

	<u>p</u>	<u>q</u>	<u>r</u>	<u>Limit</u>
Soluble lead.....	<2ppm	<2ppm	<2ppm	90ppm
Soluble cadmium.....	<2ppm	<2ppm	<2ppm	75ppm
Soluble chromium.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble barium.....	4ppm	2ppm	<2ppm	1000ppm
Soluble antimony.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble selenium.....	<2ppm	<2ppm	<2ppm	500ppm

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	<u>s</u>	<u>Limit</u>
Soluble lead.....	<2ppm	90ppm
Soluble cadmium.....	<2ppm	75ppm
Soluble chromium.....	<2ppm	60ppm
Soluble barium.....	5ppm	1000ppm
Soluble antimony.....	<2ppm	60ppm
Soluble arsenic.....	<2ppm	25ppm
Soluble mercury.....	<2ppm	60ppm
Soluble selenium.....	<2ppm	500ppm

2. CPSC

2.1 Mechanical and physical hazards

Ref.: 16 CFR 1500.51 - 53

Applicable requirements before and after use and abuse testing:

<u>Part</u>	<u>Description</u>	<u>Result</u>
16 CFR 1500.48	Requirements for sharp points	Pass
16 CFR 1500.49	Requirements for sharp edges	Pass

Use and abuse testing:

Ref.: Part 16 CFR 1500.51 - 53

<u>Applicable test</u>	<u>Condition</u>
Abuse testing	
Impact tests	4 drops at 3ft.
Torque tests	4 in-lbs.
Tension tests	15 lbs.
Compression tests	30 lbs.

2.2 Flammability test of materials other than textile

Ref. FHSA 16 CFR 1500.3 (c) (6) (vi)

Method used: FHSA 16 CFR 1500.44

Result: Pass

<u>Sample</u>	<u>Burn rate (in/sec.)</u>
Item 9761	0.02
Item 9821	0.02
Item 9838	0.02
Item 9822	0.02
Item 9581	DNI

DNI = Did Not Ignite.

Note: In accordance with the FHSA, the burning rate should not be greater than 0.1 inch per second.

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2.3 Lead content in paint or other similar surface coating

Ref.: 16 CFR Part 1303, U.S. CPSC

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Total lead analysis

Coating materials

- (a) Lights/grille/bumper/wheels (9821 - #1/#2/#3/#4 / 9822 - #1/#2/#3/#4 / 9581-4 - #2/#3/#4) / bumper/wheels (9838 - #1/#2/#3/#4) / grille/bumper/wheels (9581-4 - #1) / grille/wheels (9761-12 - #1/#6/#7/#8/#9/#12/#13) / lights/wheels (9761-12 - #2/#3/#4/#5/#10/#11/#14): shiny silver
- (b) Body (9821 - #1): red/silver
- (c) Body (9821 - #2): ivory white/silver
- (d) Body (9821 - #3): black/silver
- (e) Body (9821 - #4): metallic green/silver
- (f) Body (9838 - #1): silver
- (g) Body (9838 - #2): metallic green
- (h) Body (9838 - #3): yellow
- (i) Body (9838 - #4): red
- (j) Body (9822 - #1): ivory white
- (k) Body (9822 - #2): metallic blue
- (l) Body (9822 - #3): dull red
- (m) Body (9822 - #4): light green
- (n) Body (9581 - #1): red/white
- (o) Body (9581 - #2): white/black
- (p) Body (9581 - #3): blue/white
- (q) Body (9581 - #4): black/white
- (r) Sticker (9581-4 - #2/#3/#4): blue/yellow
- (s) Body (9581 - #1/#2/#3/#4): beige/brown/white
- (t) Body (9761-12 - #8/#9/#10/#11/#12/#13/#14): green/dull green/white

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<u>Sample</u>	<u>Result</u>	<u>Limit</u>
a	<0.005%	0.06%
b	<0.005%	0.06%
c	<0.005%	0.06%
d	<0.005%	0.06%
e	<0.005%	0.06%
f	<0.005%	0.06%
g	<0.005%	0.06%
h	<0.005%	0.06%
i	<0.005%	0.06%
j	<0.005%	0.06%
k	<0.005%	0.06%
l	<0.005%	0.06%
m	<0.005%	0.06%
n	<0.005%	0.06%
o	<0.005%	0.06%
p	<0.005%	0.06%
q	<0.005%	0.06%
r	<0.005%	0.06%
s	<0.005%	0.06%
t	<0.005%	0.06%

3. USA Consumer Product Safety Improvement Act (HR4040)

3.1 Children's products containing lead - Total Lead content

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Plastic material

- (a) Tire: black rubber
- (b) Window: transparent
- (c) Seat: white
- (d) Light: transparent deep red
- (e) Light: transparent red
- (f) Light: transparent yellow
- (g) Wheels/bumper: black ABS
- (h) Chassis: black
- (i) Seat: beige
- (j) Light: transparent deep blue
- (k) Light: transparent blue

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
a	<50ppm	600ppm
b	<50ppm	600ppm
c	<50ppm	600ppm
d	<50ppm	600ppm
e	<50ppm	600ppm
f	<50ppm	600ppm
g	<50ppm	600ppm

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h	<50ppm	600ppm
i	<50ppm	600ppm
j	<50ppm	600ppm
k	<50ppm	600ppm

4. Phthalates content

Method used: Gas Chromatography with Mass Selective Detector

- (a) Tire: black rubber
- (b) Wheels/bumper: black ABS
- (c) Window: transparent plastic
- (d) Chassis: black plastic
- (e) Seat: beige plastic
- (f) Seat: white plastic
- (g) Light: transparent deep red plastic
- (h) Light: transparent deep blue plastic
- (i) Light: transparent red plastic
- (j) Light: transparent blue plastic
- (k) Light: transparent yellow plastic

	<u>a</u>	<u>b</u>	<u>c</u>
-	Di-n-butyl phthalate (DBP)	<0.01%	<0.01%
-	Benzyl-n-butyl phthalate (BBP)	<0.01%	<0.01%
-	Di (2-ethylhexyl) phthalate (DEHP)	<0.01%	<0.01%

	<u>d</u>	<u>e</u>	<u>f</u>
-	Di-n-butyl phthalate (DBP)	<0.01%	<0.01%
-	Benzyl-n-butyl phthalate (BBP)	<0.01%	<0.01%
-	Di (2-ethylhexyl) phthalate (DEHP)	<0.01%	<0.01%

	<u>g</u>	<u>h</u>	<u>i</u>
-	Di-n-butyl phthalate (DBP)	<0.01%	<0.01%
-	Benzyl-n-butyl phthalate (BBP)	<0.01%	<0.01%
-	Di (2-ethylhexyl) phthalate (DEHP)	<0.01%	<0.01%

	<u>j</u>	<u>k</u>
-	Di-n-butyl phthalate (DBP)	<0.01%
-	Benzyl-n-butyl phthalate (BBP)	<0.01%
-	Di (2-ethylhexyl) phthalate (DEHP)	<0.01%

Requirement: Each of the above phthalates shall not be greater than 0.1% by mass of the tested material.

	<u>a</u>	<u>b</u>	<u>c</u>
-	Di-n-octyl phthalate (DNOP)	<0.01%	<0.01%
-	Diisononyl phthalate (DINP)	<0.01%	<0.01%
-	Diisodecyl phthalate (DIDP)	<0.01%	<0.01%

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong
Tel: (852) 26661888 Fax: (852) 26644353 E-mail: hkstc@hkstc.org Homepage: www.hkstc.org

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-	Di-n-octyl phthalate (DNOP)	<u>d</u>	<u>e</u>	<u>f</u>
-	Diisononyl phthalate (DINP)	<0.01%	<0.01%	<0.01%
-	Diisodecyl phthalate (DIDP)	<0.01%	<0.01%	<0.01%
-	Di-n-octyl phthalate (DNOP)	<u>g</u>	<u>h</u>	<u>i</u>
-	Diisononyl phthalate (DINP)	<0.01%	<0.01%	<0.01%
-	Diisodecyl phthalate (DIDP)	<0.01%	<0.01%	<0.01%
-	Di-n-octyl phthalate (DNOP)	<u>j</u>	<u>k</u>	
-	Diisononyl phthalate (DINP)	<0.01%	<0.01%	
-	Diisodecyl phthalate (DIDP)	<0.01%	<0.01%	

Requirement: Each of the above phthalates shall not be greater than 0.1% by mass of the tested material which can be placed in the mouth by children.

***** End of Test Report *****

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