



Test Report

Number: GZHH00282206

Applicant: MAY CHEONG TOY PRODUCTS FTY., LTD
UNIT 901-2, 9/F., EAST OCEAN CENTRE,
98 GRANVILLE ROAD, TSIMSHATSUI EAST,
KOWLOON, HONG KONG

Date: May 28, 2018

Attn: ICY HUANG

Sample Description:

Three (3) styles of submitted sample said to be :

No.	Item	Description	Color
1	81177/07188	Twist and Shoot R/C	Orange
2	07205/07188	RC STREET TROOPERS PT- 808	Flat Green
3	09078/12120	Rock Crawler R/C	Orange


Labelled Age Group : "8+"
Applicant Specified Age :
Grading for Testing : Over 8 years
Packaging Provided by Applicant : Yes
Country of Origin : China

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued

Approved :



Parco Leung
Technical Supervisor



Approved :



Huang Hui Hua
Technical Support Assistant Manager





Test Report

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Conclusion:

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EN71-1:2014 for mechanical and physical properties	Pass
	EN71-2 : 2011+A1:2014 Flammability test	Pass
Tested component(s) of submitted samples	EN71-3:2013+A1:2014 on migration of certain elements	Pass
	EN71-3:2013+A1:2014 on migration of certain elements (excluding lead migration) & lead migration of EU 2017/738 amending 2009/48/EC(effective from Oct 28,2018)	Pass
	EN71-3:2013+A2:2017 on migration of certain elements	Pass
	EN71-3:2013+A2:2017 on migration of certain elements (excluding lead migration) & lead migration of EU 2017/738 amending 2009/48/EC(effective from Oct 28,2018)	Pass
	Cadmium content requirement in REACH regulation Annex XVII Item 23 (EC) No 1907/2006 and amendment No. 552/2009, 494/2011, 835/2012 and 2016/217	Pass
	Phthalates content requirement in Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 (formerly known as Directive 2005/84/EC)	Pass
	Polycyclic Aromatic Hydrocarbons (PAHs) Content Requirement In Annex XVII Item 50 of the REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 1272/2013 with effect from 27 December 2015	Pass
<u>Test Item</u>	Phthalates Content	See Test Conducted 7#

This test in the report is not included in the CNAS accreditation schedule for our laboratory.

Approved :



Parco Leung
Technical Supervisor



Approved :



Huang Hui Hua
Technical Support Assistant Manager



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Tests Conducted

1 Physical and Mechanical Tests

As per European Standard on Safety of toys EN71-1:2014

The submitted samples were undergone the following abuse tests:

Test	Clause	Parameter
Drop test	8.5	850 mm x 5 times
Impact test	8.7	1 kg
Torque test	8.3	0.34 Nm
Tension test	8.4.2.1	90N

Clause	Testing Items	Assessment
4	General requirements	
4.1	Material	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	P
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	P
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA

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Clause	Testing Items	Assessment
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards	NA
7.11	Toys intended to be attached to strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA

Remark: P = Pass NA = Not Applicable



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Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

- Manufacturer's name was on the packaging and toy.
- Manufacturer's address was on the packaging.
- Importer's name was on the packaging and toy.
- Importer's address was on the packaging.
- Product identification code was on the packaging.
- CE marking was on the packaging and toy and was in a correct format.

Date sample received : May 15, 2018
Testing period : May 15, 2018 to May 24, 2018

2 Flammability Test

As per European Standard on Safety of Toys EN71-2:2011+A1:2014

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark: P = Pass NA = Not Applicable

Date sample received : May 15, 2018
Testing period : May 15, 2018 to May 24, 2018



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Tests Conducted

3 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A1:2014 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg)				Reporting limit (mg/kg)	Limit (mg/kg)
	Tested component					
	(1)	(3)	(4)	(5)		
Aluminium (Al)	468	ND	ND	15670	300	70000
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND	ND	ND	ND	0.1	0.2
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	160/230
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	19	5.1	6.4	ND	1.0	180000
Organic tin **	ND ^Δ	ND ^Δ	ND ^Δ	ND	2.0	12
Zinc (Zn)	1169	ND	4317	ND	100	46000



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Tests Conducted

Element	Result (mg/kg)			Reporting limit (mg/kg)	Limit (mg/kg)
	Tested component				
	(6)	(7)	(27)		
Aluminium (Al)	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND	ND	ND	0.1	0.2
Cobalt (Co)	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	10	160/230
Manganese (Mn)	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	3.5	1.0	180000
Organic tin **	ND	ND	ND ^Δ	2.0	12
Zinc (Zn)	856	1096	ND	100	46000

Element	Result (mg/kg)		Reporting limit (mg/kg)	Limit (mg/kg)
	Tested component			
	(8)to(26), (28)to(37)			
Aluminium (Al)	ND		300	70000
Antimony (Sb)	ND		10	560
Arsenic (As)	ND		10	47
Barium (Ba)	ND		10	18750
Boron (B)	ND		50	15000
Cadmium (Cd)	ND		5	17
Chromium (III) (Cr III) **	ND		10	460
Chromium (VI) (Cr VI) **	ND		0.1	0.2
Cobalt (Co)	ND		10	130
Copper (Cu)	ND		10	7700
Lead (Pb)	ND		10	160/230
Manganese (Mn)	ND		10	15000
Mercury (Hg)	ND		10	94
Nickel (Ni)	ND		10	930
Selenium (Se)	ND		10	460
Strontium (Sr)	ND		100	56000
Tin (Sn)	ND		1.0	180000
Organic tin **	ND		2.0	12
Zinc (Zn)	ND		100	46000



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Remark : mg/kg = milligram per kilogram
ND = Not detected
++ = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.
- Organic tin test result was expressed as tributyl tin.
∅ = The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] were quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.
Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

Tested Component(s):

- (1) Coatings (orange, black, yellow, dark red) on plastic (shell, chassis, body, wheel, head, headlight, tail wing, ejector of #81177).
- (2) @Coatings (silver color, red, light red, white) on plastic (battery cover of #81177).
- (3) Dull white plastic (cap of small motor of #09078, #81177).
- (4) Coatings (orange, black, white, grey) on plastic (body, button of controller of #07188 orange).
- (5) Coatings (black, Kelly, light green, red, grey, silver color, yellow) on plastic (shell, wheel, chassis, body, joint, brake of #07205).
- (6) Coatings (dark grey, red, Kelly, white) on plastic (body, button of controller of #07188 Kelly).
- (7) Coatings (white, black, red, grey, silver color) on plastic (shell of #09078, rocker, trigger of #12120).
- (8) Bright black plastic (switch of #07205, #07188 orange, #07188 Kelly, #09078, #12120).
- (9) Semi-transparent plastic (direction adjustment of #09078).
- (10) Black plastic (body, shell, battery cover, chassis, joint, wheel, ejector, bullet of #81177, #07205, #09078, body, switch, battery cover of #07188 orange, #07188 Kelly, rocker, trigger of #12120).
- (11) Orange plastic (shell, body, joint of #81177).
- (12) Light orange plastic (hood, tail wing of #81177).
- (13) Beige plastic (joint of #81177).
- (14) Light grey plastic (joint of #81177).
- (15) Orange 70°PVC plastic (tire of #81177).
- (16) Light red plastic (switch of #81177, #07205).
- (17) Red soft plastic (bullet of #81177, #07205).
- (18) Red plastic (rocker, button of #07188 orange).
- (19) Transparent red plastic (button of #07188 orange, #07188 Kelly).
- (20) Black PVC plastic (wire covering of #07188 orange, #07188 Kelly, #09078, #12120).
- (21) Bright black plastic (antenna of #07188 orange, #07188 Kelly).
- (22) Black plastic (tip of antenna of #07188 orange, #07188 Kelly).
- (23) Dark green plastic (shell, body, joint of #07205).



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Tested Component(s):

- (24) Transparent plastic (headlight of #07205).
- (25) Grey plastic (brake of #07205).
- (26) Dark grey plastic (bullet of #07205).
- (27) Black ribbon (battery box of #07205).
- (28) Black 70°PVC plastic (tire of #07205).
- (29) Black 100°PVC plastic (hand, gun of #07205).
- (30) White soft plastic (sleeve of #07205).
- (31) Dull grey plastic (rocker, button of #07188 Kelly).
- (32) Dark orange plastic (shell of #09078).
- (33) Deep orange plastic (wheel, joint of #09078).
- (34) Black 60°PVC plastic (tire of #09078).
- (35) Black soft plastic (sleeve of #09078).
- (36) White paper label with coatings (black, white, grey, yellow, red) (sticker of #09078, #12120) (sample weight: 35mg).
- (37) Chocolate plastic (body, handle, switch, battery cover of #12120).

@: Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III : Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone , leather and other materials).

Date sample received: May 15, 2018

Testing period: May 15, 2018 to May 26, 2018



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Tests Conducted

4 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A2:2017 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, and Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material

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Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND	ND	ND	ND	0.1	0.2
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	160/230
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
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Tin (Sn)	ND	ND	3.5	2.5	180000
Organic tin **	ND	ND	ND ^A	2.0	12
Zinc (Zn)	856	1096	ND	100	46000

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Remark : mg/kg = milligram per kilogram
++ = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.
- Organic tin test result was expressed as tributyl tin.
ND = Not detected
∅ = The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] were quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.
Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation. Other Organic tin compounds may be also be present in sample as stated in EN71-3:2013+A2:2017.

Tested Component(s):

- (1) Coatings (orange, black, yellow, dark red) on plastic (shell, chassis, body, wheel, head, headlight, tail wing, ejector of #81177).
- (2) @Coatings (silver color, red, light red, white) on plastic (battery cover of #81177).
- (3) Dull white plastic (cap of small motor of #09078, #81177).
- (4) Coatings (orange, black, white, grey) on plastic (body, button of controller of #07188 orange).
- (5) Coatings (black, Kelly, light green, red, grey, silver color, yellow) on plastic (shell, wheel, chassis, body, joint, brake of #07205).
- (6) Coatings (dark grey, red, Kelly, white) on plastic (body, button of controller of #07188 Kelly).
- (7) Coatings (white, black, red, grey, silver color) on plastic (shell of #09078, rocker, trigger of #12120).
- (8) Bright black plastic (switch of #07205, #07188 orange, #07188 Kelly, #09078, #12120).
- (9) Semi-transparent plastic (direction adjustment of #09078).
- (10) Black plastic (body, shell, battery cover, chassis, joint, wheel, ejector, bullet of #81177, #07205, #09078, body, switch, battery cover of #07188 orange, #07188 Kelly, rocker, trigger of #12120).
- (11) Orange plastic (shell, body, joint of #81177).
- (12) Light orange plastic (hood, tail wing of #81177).
- (13) Beige plastic (joint of #81177).
- (14) Light grey plastic (joint of #81177).
- (15) Orange 70°PVC plastic (tire of #81177).
- (16) Light red plastic (switch of #81177, #07205).
- (17) Red soft plastic (bullet of #81177, #07205).
- (18) Red plastic (rocker, button of #07188 orange).
- (19) Transparent red plastic (button of #07188 orange, #07188 Kelly).
- (20) Black PVC plastic (wire covering of #07188 orange, #07188 Kelly, #09078, #12120).
- (21) Bright black plastic (antenna of #07188 orange, #07188 Kelly).
- (22) Black plastic (tip of antenna of #07188 orange, #07188 Kelly).



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Tested Component(s):

- (23) Dark green plastic (shell, body, joint of #07205).
- (24) Transparent plastic (headlight of #07205).
- (25) Grey plastic (brake of #07205).
- (26) Dark grey plastic (bullet of #07205).
- (27) Black ribbon (battery box of #07205).
- (28) Black 70°PVC plastic (tire of #07205).
- (29) Black 100°PVC plastic (hand, gun of #07205).
- (30) White soft plastic (sleeve of #07205).
- (31) Dull grey plastic (rocker, button of #07188 Kelly).
- (32) Dark orange plastic (shell of #09078).
- (33) Deep orange plastic (wheel, joint of #09078).
- (34) Black 60°PVC plastic (tire of #09078).
- (35) Black soft plastic (sleeve of #09078).
- (36) White paper label with coatings (black, white, grey, yellow, red) (sticker of #09078, #12120) (sample weight: 35mg).
- (37) Chocolate plastic (body, handle, switch, battery cover of #12120).

@: Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Date sample received: May 15, 2018

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Tests Conducted

5 Cadmium (Cd) Content

With reference to test method IEC 62321-5:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (%)	Reporting Limit (%)
	Tested Component	
	(1/2), (3+9+34), (4)to(6), (7/36), (8+35), (10+11+12), (13+14+15), (16+17+18), (19+20+21), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (37+91+92), (38+39+40), (41+42+43), (44), (45+47), (46+52+53), (54), (55+56+57), (58)to(60), (61+62+63), (64+65+66), (67+68+69), (70+71), (72+75+76), (73), (74), (77+78+79), (80+81+85), (82)to(84), (86+87), (88+89+90)	
Cadmium (Cd)	ND	0.0005

Limit:

Category	Limit (%)
Wet paint	0.01
Surface coating	0.1
Plastic	0.01
Metal parts of jewelry & hair accessories	0.01

ND = Not detected (less than reporting limit)

Tested Component(s):

- (1) Coatings (orange, black, yellow, dark red) on plastic (shell, chassis, body, wheel, head, headlight, tail wing, ejector of #81177).
- (2) Coatings (silver color, red, light red, white) on plastic (battery cover of #81177).
- (3) Dull white plastic (cap of small motor of #09078, #81177).
- (4) Coatings (orange, black, white, grey) on plastic (body, button of controller of #07188 orange).
- (5) Coatings (black, Kelly, light green, red, grey, silver color, yellow) on plastic (shell, wheel, chassis, body, joint, brake of #07205).
- (6) Coatings (dark grey, red, Kelly, white) on plastic (body, button of controller of #07188 Kelly).
- (7) Coatings (white, black, red, grey, silver color) on plastic (shell of #09078, rocker, trigger of #12120).
- (8) Bright black plastic (switch of #07205, #07188 orange, #07188 Kelly, #09078, #12120).
- (9) Semi-transparent plastic (direction adjustment of #09078).
- (10) Black plastic (body, shell, battery cover, chassis, joint, wheel, ejector, bullet of #81177, #07205, #09078, body, switch, battery cover of #07188 orange, #07188 Kelly, rocker, trigger of #12120).
- (11) Orange plastic (shell, body, joint of #81177).
- (12) Light orange plastic (hood, tail wing of #81177).



Test Report

Number: GZHH00282206

Tests Conducted

Tested Component(s):

- (13) Beige plastic (joint of #81177).
- (14) Light grey plastic (joint of #81177).
- (15) Orange 70°PVC plastic (tire of #81177).
- (16) Light red plastic (switch of #81177, #07205).
- (17) Red soft plastic (bullet of #81177, #07205).
- (18) Red plastic (rocker, button of #07188 orange).
- (19) Transparent red plastic (button of #07188 orange, #07188 Kelly).
- (20) Black PVC plastic (wire covering of #07188 orange, #07188 Kelly, #09078, #12120).
- (21) Bright black plastic (antenna of #07188 orange, #07188 Kelly).
- (22) Black plastic (tip of antenna of #07188 orange, #07188 Kelly).
- (23) Dark green plastic (shell, body, joint of #07205).
- (24) Transparent plastic (headlight of #07205).
- (25) Grey plastic (brake of #07205).
- (26) Dark grey plastic (bullet of #07205).
- (27) Black 70°PVC plastic (tire of #07205).
- (28) Black 100°PVC plastic (hand, gun of #07205).
- (29) White soft plastic (sleeve of #07205).
- (30) Dull grey plastic (rocker, button of #07188 Kelly).
- (31) Dark orange plastic (shell of #09078).
- (32) Deep orange plastic (wheel, joint of #09078).
- (33) Black 60°PVC plastic (tire of #09078).
- (34) Black soft plastic (sleeve of #09078).
- (35) Chocolate plastic (body, handle, switch, battery cover of #12120).
- (36) Coatings (black, white, grey, yellow, red) on paper label (sticker of #09078, #12120).
- (37) Dark white plastic (switch of car of #07205) (internal).
- (38) Purple PVC plastic with black printing (thick wire covering of #07205) (internal).
- (39) Brown PVC plastic with white printing (thin wire covering of #07205) (internal).
- (40) Yellow PVC plastic with black printing (wire covering of #07205) (internal).
- (41) Dark blue PVC plastic with white printing (thick wire covering of #07205) (internal).
- (42) Light green PVC plastic with black printing (wire covering of #07205) (internal).
- (43) Dark purple PVC plastic with white printing (wire covering of #07205) (internal).
- (44) Plastic parts on PCB (PCB of #09078) (internal).
- (45) Purple PVC plastic with black printing (thin wire covering of #09078) (internal).
- (46) White plastic (gear of #81177, #07205, #09078) (internal).
- (47) Grey PVC plastic with black printing (thin wire covering of #09078) (internal).
- (48) Green/brown PCB (big PCB of #81177) (internal).
- (49) Plastic parts on PCB (big PCB of #81177) (internal).



Test Report

Number: GZHH00282206

Tests Conducted

Tested Component(s):

- (50) Green PCB (PCB of big PCB of #81177, #07188 orange, #07205, #07188 Kelly, #09078, #12120) (internal).
- (51) Plastic parts on PCB (PCB of big PCB of #81177, #07188 orange, #07205, #07188 Kelly, #09078, #12120) (internal).
- (52) Black plastic with white printing (cover of 220uf/10v capacitor of #81177, #07205, #09078) (internal).
- (53) Black plastic (base of 220uf/10v capacitor of #81177, #07205, #09078) (internal).
- (54) Green/light brown PCB (small PCB of #81177, #07188 orange, #07188 Kelly, #09078) (internal).
- (55) Light brown plastic with red printing (base of switch of #81177, #07205, #09078, #12120) (internal).
- (56) Beige plastic (cap of big motor of #81177, #07205, #09078) (internal).
- (57) Semi-transparent plastic (joint of cap of both motors of #81177, #07205, #09078) (internal).
- (58) Plastic parts on motor (big motor of #81177, #07205, #09078) (internal).
- (59) Brown PCB (PCB of both motors of #81177, #07205, #09078) (internal).
- (60) Plastic parts on motor (small motor of #81177, #07205, #09078) (internal).
- (61) Black PVC plastic with white printing (thick wire covering of #81177, #07205, #09078, #12120) (internal).
- (62) Brown PVC plastic with white printing (thick wire covering of #81177, #07188 orange, #07205, #07188 Kelly) (internal).
- (63) Orange PVC plastic with black printing (wire covering of #81177, #07188 orange, #07205, #07188 Kelly) (internal).
- (64) Grey PVC plastic with black printing (thick wire covering of #81177, #07205) (internal).
- (65) Green PVC plastic with white printing (wire covering of #81177, #07205, #09078) (internal).
- (66) Red PVC plastic (thin wire covering of #81177, #07205) (internal).
- (67) Black PVC plastic with white printing (thin wire covering of #81177, #07188 orange, #07205, #07188 Kelly) (internal).
- (68) Red PVC plastic with white printing (thick wire covering of #81177, #07205, #09078, #12120) (internal).
- (69) Dark blue PVC plastic with white printing (thin wire covering of #81177, #07188 orange, #07188 Kelly) (internal).
- (70) White PVC plastic with black printing (wire covering of #81177, #07205, #09078) (internal).
- (71) Semi-transparent/black soft plastic (button of #07188 orange, #07188 Kelly) (internal).
- (72) Grey soft plastic (button of #07188 orange, #07188 Kelly) (internal).
- (73) Green/brown PCB (big PCB of #07188 orange, #07188 Kelly, #12120) (internal).
- (74) Plastic parts on PCB (big PCB of #07188 orange, #07188 Kelly, #12120) (internal).
- (75) Black plastic with white printing (cover of 47uf/10v capacitor of #07188 orange, #07188 Kelly, #09078) (internal).
- (76) Black plastic (base of 47uf/10v capacitor of #07188 orange, #07188 Kelly, #09078) (internal).
- (77) Black plastic with white printing (cover of 100uf/10v capacitor of #07188 orange, #07205, #07188 Kelly) (internal).



Test Report

Number: GZHH00282206

Tests Conducted

Tested Component(s):

- (78) Black plastic (base of 100uf/10v capacitor of #07188 orange, #07205, #07188 Kelly) (internal).
- (79) Black plastic (button of #07188 orange, #07188 Kelly, #12120) (internal).
- (80) Transparent plastic (LED of #07188 orange, #07188 Kelly) (internal).
- (81) Black elastic string (fastener of ejector of #07205) (internal).
- (82) Green/dull brown PCB (big PCB of #07205) (internal).
- (83) Plastic parts on PCB (big PCB of #07205) (internal).
- (84) Black material (triode of #07205, #09078) (internal).
- (85) White plastic (plug of PCB of #07205) (internal).
- (86) Black plastic with wax (inductor of car of #07205, #81177, #09078) (internal).
- (87) Black plastic with white printing (cover of 4.7uf/50v capacitor of car of #07205) (internal).
- (88) Black plastic (lining of 4.7uf/50v capacitor of car of #07205) (internal).
- (89) Black plastic with white printing (cover of 10uf/16v capacitor of car of #07205) (internal).
- (90) Black plastic (lining of 10uf/16v capacitor of car of #07205) (internal).
- (91) Black plastic (cap of small motor of #07205) (internal).
- (92) Black plastic (switch of car of #07205, #12120) (internal).

The Cadmium content test of the tested components (1), (2), (7), (36) were conducted in composite for the materials which sample size is not sufficient to carry out the test individually.

Date sample received: May 15, 2018
Testing period: May 15, 2018 to May 28, 2018

6 Phthalate Content

With reference to EN 14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

For 3 phthalate

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested component (36+37+91), (38+39), (40+41+72), (42+43+44), (45+47+48), (46), (49+54+55), (50)to(53), (56), (57+58+59), (60)to(62), (63+64+65), (66+67+68), (69+70+71), (73+74), (75), (76), (77+78+79), (80+81+82), (83+89+90), (84)to(86), (87+88)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.01	--
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.01	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	---
Sum of DBP, DEHP and BBP	--	ND	--	0.1



Test Report

Number: GZHH00282206

Tests Conducted

For 6 phthalate

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested component (1+33+35), (2+7), (3)to(6), (8+27), (9), (10+11+12), (13+14+16), (15+20+28), (17+18+19), (21+22+23), (24+25+26), (29+34), (30+31+32)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.01	--
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.01	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	---
Sum of DBP,DEHP and BBP	--	ND	--	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.01	--
Di-n-octyl phthalate(DNOP)	117-84-0	ND	0.01	--
Di-iso-decyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	0.01	--
Sum of DINP, DNOP and DIDP	--	ND	--	0.1

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009(formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.

ND = Not detected (less than reporting limit)

Tested Component(s):

- (1) Dull white plastic (cap of small motor of #09078, #81177).
- (2) Semi-transparent plastic (direction adjustment of #09078).
- (3) Coatings (orange, black, yellow, dark red, silver color, red, light red, white) on plastic (shell, chassis, body, wheel, head, headlight, tail wing, ejector, battery cover of #81177).
- (4) Coatings (orange, black, white, grey) on plastic (body, button of controller of #07188 orange).
- (5) Coatings (black, Kelly, light green, red, grey, silver color, yellow) on plastic (shell, wheel, chassis, body, joint, brake of #07205).
- (6) Coatings (dark grey, red, Kelly, white) on plastic (body, button of controller of #07188 Kelly).
- (7) Bright black plastic (switch of #07205, #07188 orange, #07188 Kelly, #09078, #12120).
- (8) White paper label excluding coatings (sticker of #09078, #12120).
- (9) Coatings (white, black, red, grey, silver color) on plastic/paper label (shell of #09078, rocker, trigger of #12120, sticker of #09078, #12120).



Test Report

Number: GZHH00282206

Tests Conducted

Tested Component(s):

- (10) Black plastic (body, shell, battery cover, chassis, joint, wheel, ejector, bullet of #81177, #07205, #09078, body, switch, battery cover of #07188 orange, #07188 Kelly, rocker, trigger of #12120).
- (11) Orange plastic (shell, body, joint of #81177).
- (12) Light orange plastic (hood, tail wing of #81177).
- (13) Beige plastic (joint of #81177).
- (14) Light grey plastic (joint of #81177).
- (15) Orange 70°PVC plastic (tire of #81177).
- (16) Light red plastic (switch of #81177, #07205).
- (17) Red soft plastic (bullet of #81177, #07205).
- (18) Red plastic (rocker, button of #07188 orange).
- (19) Transparent red plastic (button of #07188 orange, #07188 Kelly).
- (20) Black PVC plastic (wire covering of #07188 orange, #07188 Kelly, #09078, #12120).
- (21) Bright black plastic (antenna of #07188 orange, #07188 Kelly).
- (22) Black plastic (tip of antenna of #07188 orange, #07188 Kelly).
- (23) Dark green plastic (shell, body, joint of #07205).
- (24) Transparent plastic (headlight of #07205).
- (25) Grey plastic (brake of #07205).
- (26) Dark grey plastic (bullet of #07205).
- (27) Chocolate plastic (body, handle, switch, battery cover of #12120).
- (28) Black 70°PVC plastic (tire of #07205).
- (29) Black 100°PVC plastic (hand, gun of #07205).
- (30) White soft plastic (sleeve of #07205).
- (31) Dull grey plastic (rocker, button of #07188 Kelly).
- (32) Dark orange plastic (shell of #09078).
- (33) Deep orange plastic (wheel, joint of #09078).
- (34) Black 60°PVC plastic (tire of #09078).
- (35) Black soft plastic (sleeve of #09078).
- (36) Black plastic (lining of 10uf/16v capacitor of car of #07205) (internal).
- (37) Black plastic (cap of small motor of #07205) (internal).
- (38) Black plastic (switch of car of #07205, #12120) (internal).
- (39) Dark white plastic (switch of car of #07205) (internal).
- (40) Purple PVC plastic with black printing (thick wire covering of #07205) (internal).
- (41) Brown PVC plastic with white printing (thin wire covering of #07205) (internal).
- (42) Yellow PVC plastic with black printing (wire covering of #07205) (internal).
- (43) Dark blue PVC plastic with white printing (thick wire covering of #07205) (internal).
- (44) Light green PVC plastic with black printing (wire covering of #07205) (internal).
- (45) Dark purple PVC plastic with white printing (wire covering of #07205) (internal).
- (46) Plastic parts on PCB (PCB of #09078) (internal).
- (47) Purple PVC plastic with black printing (thin wire covering of #09078) (internal).



Test Report

Number: GZHH00282206

Tests Conducted

Tested Component(s):

- (48) Grey PVC plastic with black printing (thin wire covering of #09078) (internal).
- (49) White plastic with lube (gear of #81177, #07205, #09078) (internal).
- (50) Green/brown PCB (big PCB of #81177) (internal).
- (51) Plastic parts on PCB (big PCB of #81177) (internal).
- (52) Green PCB (PCB of big PCB of #81177, #07188 orange, #07205, #07188 Kelly, #09078, #12120) (internal).
- (53) Plastic parts on PCB (PCB of big PCB of #81177, #07188 orange, #07205, #07188 Kelly, #09078, #12120) (internal).
- (54) Black plastic with white printing (cover of 220uf/10v capacitor of #81177, #07205, #09078) (internal).
- (55) Black plastic (base of 220uf/10v capacitor of #81177, #07205, #09078) (internal).
- (56) Green/light brown PCB (small PCB of #81177, #07188 orange, #07188 Kelly, #09078) (internal).
- (57) Light brown plastic with red printing (base of switch of #81177, #07205, #09078, #12120) (internal).
- (58) Beige plastic (cap of big motor of #81177, #07205, #09078) (internal).
- (59) Semi-transparent plastic (joint of cap of both motors of #81177, #07205, #09078) (internal).
- (60) Plastic parts on motor (big motor of #81177, #07205, #09078) (internal).
- (61) Brown PCB (PCB of both motors of #81177, #07205, #09078) (internal).
- (62) Plastic parts on motor (small motor of #81177, #07205, #09078) (internal).
- (63) Black PVC plastic with white printing (thick wire covering of #81177, #07205, #09078, #12120) (internal).
- (64) Brown PVC plastic with white printing (thick wire covering of #81177, #07188 orange, #07205, #07188 Kelly) (internal).
- (65) Orange PVC plastic with black printing (wire covering of #81177, #07188 orange, #07205, #07188 Kelly) (internal).
- (66) Grey PVC plastic with black printing (thick wire covering of #81177, #07205) (internal).
- (67) Green PVC plastic with white printing (wire covering of #81177, #07205, #09078) (internal).
- (68) Red PVC plastic (thin wire covering of #81177, #07205) (internal).
- (69) Black PVC plastic with white printing (thin wire covering of #81177, #07188 orange, #07205, #07188 Kelly) (internal).
- (70) Red PVC plastic with white printing (thick wire covering of #81177, #07205, #09078, #12120) (internal).
- (71) Dark blue PVC plastic with white printing (thin wire covering of #81177, #07188 orange, #07188 Kelly) (internal).
- (72) White PVC plastic with black printing (wire covering of #81177, #07205, #09078) (internal).
- (73) Semi-transparent/black soft plastic (button of #07188 orange, #07188 Kelly) (internal).
- (74) Grey soft plastic (button of #07188 orange, #07188 Kelly) (internal).
- (75) Green/brown PCB (big PCB of #07188 orange, #07188 Kelly, #12120) (internal).
- (76) Plastic parts on PCB (big PCB of #07188 orange, #07188 Kelly, #12120) (internal).
- (77) Black plastic with white printing (cover of 47uf/10v capacitor of #07188 orange, #07188 Kelly, #09078) (internal).



Test Report

Number: GZHH00282206

Tests Conducted

Tested Component(s):

- (78) Black plastic (base of 47uf/10v capacitor of #07188 orange, #07188 Kelly, #09078) (internal).
- (79) Black plastic with white printing (cover of 100uf/10v capacitor of #07188 orange, #07205, #07188 Kelly) (internal).
- (80) Black plastic (base of 100uf/10v capacitor of #07188 orange, #07205, #07188 Kelly) (internal).
- (81) Black plastic (button of #07188 orange, #07188 Kelly, #12120) (internal).
- (82) Transparent plastic (LED of #07188 orange, #07188 Kelly) (internal).
- (83) Black elastic string (fastener of ejector of #07205) (internal).
- (84) Green/dull brown PCB (big PCB of #07205) (internal).
- (85) Plastic parts on PCB (big PCB of #07205) (internal).
- (86) Black material (triode of #07205, #09078) (internal).
- (87) White plastic (plug of PCB of #07205) (internal).
- (88) Black plastic with wax (inductor of car of #07205, #81177, #09078) (internal).
- (89) Black plastic with white printing (cover of 4.7uf/50v capacitor of car of #07205) (internal).
- (90) Black plastic (lining of 4.7uf/50v capacitor of car of #07205) (internal).
- (91) Black plastic with white printing (cover of 10uf/16v capacitor of car of #07205) (internal).

Date sample received: May 15, 2018
Testing period: May 15, 2018 to May 23, 2018

7 **Phthalates Content**

By solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	Result (%)	Reporting limit (%)
	Tested component	
	(1+33+35), (2+7), (3)to(6), (8+27), (9), (10+11+12), (13+14+16), (15+20+28), (17+18+19), (21+22+23), (24+25+26), (29+34), (30+31+32), (36+37+91), (38+39), (40+41+72), (42+43+44), (45+47+48), (46), (49+54+55), (50)to(53), (56), (57+58+59), (60)to(62), (63+64+65), (66+67+68), (69+70+71), (73+74), (75), (76), (77+78+79), (80+81+82), (83+89+90), (84)to(86), (87+88)	
Di-n-hexyl phthalate (DnHP)	ND	0.01
Di-iso-butyl phthalate (DIBP)	ND	0.01
Di-cyclohexyl phthalate (DCHP)	ND	0.01
Di-n-pentyl phthalate (DPENP)	ND	0.01

ND = Not Detected



Test Report

Number: GZHH00282206

Tests Conducted

Tested Component(s):

- (1) Dull white plastic (cap of small motor of #09078, #81177).
- (2) Semi-transparent plastic (direction adjustment of #09078).
- (3) Coatings (orange, black, yellow, dark red, silver color, red, light red, white) on plastic (shell, chassis, body, wheel, head, headlight, tail wing, ejector, battery cover of #81177).
- (4) Coatings (orange, black, white, grey) on plastic (body, button of controller of #07188 orange).
- (5) Coatings (black, Kelly, light green, red, grey, silver color, yellow) on plastic (shell, wheel, chassis, body, joint, brake of #07205).
- (6) Coatings (dark grey, red, Kelly, white) on plastic (body, button of controller of #07188 Kelly).
- (7) Bright black plastic (switch of #07205, #07188 orange, #07188 Kelly, #09078, #12120).
- (8) White paper label excluding coatings (sticker of #09078, #12120).
- (9) Coatings (white, black, red, grey, silver color) on plastic/paper label (shell of #09078, rocker, trigger of #12120, sticker of #09078, #12120).
- (10) Black plastic (body, shell, battery cover, chassis, joint, wheel, ejector, bullet of #81177, #07205, #09078, body, switch, battery cover of #07188 orange, #07188 Kelly, rocker, trigger of #12120).
- (11) Orange plastic (shell, body, joint of #81177).
- (12) Light orange plastic (hood, tail wing of #81177).
- (13) Beige plastic (joint of #81177).
- (14) Light grey plastic (joint of #81177).
- (15) Orange 70°PVC plastic (tire of #81177).
- (16) Light red plastic (switch of #81177, #07205).
- (17) Red soft plastic (bullet of #81177, #07205).
- (18) Red plastic (rocker, button of #07188 orange).
- (19) Transparent red plastic (button of #07188 orange, #07188 Kelly).
- (20) Black PVC plastic (wire covering of #07188 orange, #07188 Kelly, #09078, #12120).
- (21) Bright black plastic (antenna of #07188 orange, #07188 Kelly).
- (22) Black plastic (tip of antenna of #07188 orange, #07188 Kelly).
- (23) Dark green plastic (shell, body, joint of #07205).
- (24) Transparent plastic (headlight of #07205).
- (25) Grey plastic (brake of #07205).
- (26) Dark grey plastic (bullet of #07205).
- (27) Chocolate plastic (body, handle, switch, battery cover of #12120).
- (28) Black 70°PVC plastic (tire of #07205).
- (29) Black 100°PVC plastic (hand, gun of #07205).
- (30) White soft plastic (sleeve of #07205).
- (31) Dull grey plastic (rocker, button of #07188 Kelly).
- (32) Dark orange plastic (shell of #09078).
- (33) Deep orange plastic (wheel, joint of #09078).
- (34) Black 60°PVC plastic (tire of #09078).
- (35) Black soft plastic (sleeve of #09078).



Test Report

Number: GZHH00282206

Tests Conducted

Tested Component(s):

- (36) Black plastic (lining of 10uf/16v capacitor of car of #07205) (internal).
- (37) Black plastic (cap of small motor of #07205) (internal).
- (38) Black plastic (switch of car of #07205, #12120) (internal).
- (39) Dark white plastic (switch of car of #07205) (internal).
- (40) Purple PVC plastic with black printing (thick wire covering of #07205) (internal).
- (41) Brown PVC plastic with white printing (thin wire covering of #07205) (internal).
- (42) Yellow PVC plastic with black printing (wire covering of #07205) (internal).
- (43) Dark blue PVC plastic with white printing (thick wire covering of #07205) (internal).
- (44) Light green PVC plastic with black printing (wire covering of #07205) (internal).
- (45) Dark purple PVC plastic with white printing (wire covering of #07205) (internal).
- (46) Plastic parts on PCB (PCB of #09078) (internal).
- (47) Purple PVC plastic with black printing (thin wire covering of #09078) (internal).
- (48) Grey PVC plastic with black printing (thin wire covering of #09078) (internal).
- (49) White plastic with lube (gear of #81177, #07205, #09078) (internal).
- (50) Green/brown PCB (big PCB of #81177) (internal).
- (51) Plastic parts on PCB (big PCB of #81177) (internal).
- (52) Green PCB (PCB of big PCB of #81177, #07188 orange, #07205, #07188 Kelly, #09078, #12120) (internal).
- (53) Plastic parts on PCB (PCB of big PCB of #81177, #07188 orange, #07205, #07188 Kelly, #09078, #12120) (internal).
- (54) Black plastic with white printing (cover of 220uf/10v capacitor of #81177, #07205, #09078) (internal).
- (55) Black plastic (base of 220uf/10v capacitor of #81177, #07205, #09078) (internal).
- (56) Green/light brown PCB (small PCB of #81177, #07188 orange, #07188 Kelly, #09078) (internal).
- (57) Light brown plastic with red printing (base of switch of #81177, #07205, #09078, #12120) (internal).
- (58) Beige plastic (cap of big motor of #81177, #07205, #09078) (internal).
- (59) Semi-transparent plastic (joint of cap of both motors of #81177, #07205, #09078) (internal).
- (60) Plastic parts on motor (big motor of #81177, #07205, #09078) (internal).
- (61) Brown PCB (PCB of both motors of #81177, #07205, #09078) (internal).
- (62) Plastic parts on motor (small motor of #81177, #07205, #09078) (internal).
- (63) Black PVC plastic with white printing (thick wire covering of #81177, #07205, #09078, #12120) (internal).
- (64) Brown PVC plastic with white printing (thick wire covering of #81177, #07188 orange, #07205, #07188 Kelly) (internal).
- (65) Orange PVC plastic with black printing (wire covering of #81177, #07188 orange, #07205, #07188 Kelly) (internal).
- (66) Grey PVC plastic with black printing (thick wire covering of #81177, #07205) (internal).
- (67) Green PVC plastic with white printing (wire covering of #81177, #07205, #09078) (internal).
- (68) Red PVC plastic (thin wire covering of #81177, #07205) (internal).



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Tested Component(s):

- (69) Black PVC plastic with white printing (thin wire covering of #81177, #07188 orange, #07205, #07188 Kelly) (internal).
- (70) Red PVC plastic with white printing (thick wire covering of #81177, #07205, #09078, #12120) (internal).
- (71) Dark blue PVC plastic with white printing (thin wire covering of #81177, #07188 orange, #07188 Kelly) (internal).
- (72) White PVC plastic with black printing (wire covering of #81177, #07205, #09078) (internal).
- (73) Semi-transparent/black soft plastic (button of #07188 orange, #07188 Kelly) (internal).
- (74) Grey soft plastic (button of #07188 orange, #07188 Kelly) (internal).
- (75) Green/brown PCB (big PCB of #07188 orange, #07188 Kelly, #12120) (internal).
- (76) Plastic parts on PCB (big PCB of #07188 orange, #07188 Kelly, #12120) (internal).
- (77) Black plastic with white printing (cover of 47uf/10v capacitor of #07188 orange, #07188 Kelly, #09078) (internal).
- (78) Black plastic (base of 47uf/10v capacitor of #07188 orange, #07188 Kelly, #09078) (internal).
- (79) Black plastic with white printing (cover of 100uf/10v capacitor of #07188 orange, #07205, #07188 Kelly) (internal).
- (80) Black plastic (base of 100uf/10v capacitor of #07188 orange, #07205, #07188 Kelly) (internal).
- (81) Black plastic (button of #07188 orange, #07188 Kelly, #12120) (internal).
- (82) Transparent plastic (LED of #07188 orange, #07188 Kelly) (internal).
- (83) Black elastic string (fastener of ejector of #07205) (internal).
- (84) Green/dull brown PCB (big PCB of #07205) (internal).
- (85) Plastic parts on PCB (big PCB of #07205) (internal).
- (86) Black material (triode of #07205, #09078) (internal).
- (87) White plastic (plug of PCB of #07205) (internal).
- (88) Black plastic with wax (inductor of car of #07205, #81177, #09078) (internal).
- (89) Black plastic with white printing (cover of 4.7uf/50v capacitor of car of #07205) (internal).
- (90) Black plastic (lining of 4.7uf/50v capacitor of car of #07205) (internal).
- (91) Black plastic with white printing (cover of 10uf/16v capacitor of car of #07205) (internal).

Date sample received : May 15, 2018

Testing period : May 15, 2018 to May 23, 2018



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8 Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2014:01 PAK (PAH), PAHs content was determined by Gas Chromatography-Mass Spectrometry (GC-MS).

Test item	Result (mg/kg)	Reporting limit (mg/kg)	Limit (mg/kg)
	Tested component		
	(1)to(8), (9+10), (11+12), (13+14), (15+16), (17+23), (18), (19+31), (20+21+22), (24+25), (26+28), (27), (29+30), (32+33), (34+35)		
Benzo[a]anthracene	ND	0.1	0.5
Chrysene	ND	0.1	0.5
Benzo[b]fluoranthene	ND	0.1	0.5
Benzo[k]fluoranthene	ND	0.1	0.5
Benzo[a]pyrene	ND	0.1	0.5
Dibenzo[a,h]anthracene	ND	0.1	0.5
Benzo[j]fluoranthene	ND	0.1	0.5
Benzo[e]pyrene	ND	0.1	0.5

ND= Not detected

Tested Component(s):

- (1) Coatings (orange, black, yellow, dark red) on plastic (shell, chassis, body, wheel, head, headlight, tail wing, ejector of #81177).
- (2) Chocolate plastic (body, handle, switch, battery cover of #12120).
- (3) Coatings (orange, black, yellow, dark red, silver color, red, light red, white) on plastic (shell, chassis, body, wheel, head, headlight, tail wing, ejector, battery cover of #81177).
- (4) Coatings (orange, black, white, grey) on plastic (body, button of controller of #07188 orange).
- (5) Coatings (black, Kelly, light green, red, grey, silver color, yellow) on plastic (shell, wheel, chassis, body, joint, brake of #07205).
- (6) Coatings (dark grey, red, Kelly, white) on plastic (body, button of controller of #07188 Kelly).
- (7) Coatings (white, black, red, grey, silver color) on plastic (shell of #09078, rocker, trigger of #12120).
- (8) Coatings (black, white, grey, yellow, red) on paper label (sticker of #09078, #12120).
- (9) Dull white plastic (cap of small motor of #09078, #81177).
- (10) Semi-transparent plastic (direction adjustment of #09078).
- (11) Orange plastic (shell, body, joint of #81177).
- (12) Light orange plastic (hood, tail wing of #81177).
- (13) Beige plastic (joint of #81177).
- (14) Light grey plastic (joint of #81177).



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Tested Component(s):

- (15) Orange 70°PVC plastic (tire of #81177).
- (16) Light red plastic (switch of #81177, #07205).
- (17) Red soft plastic (bullet of #81177, #07205).
- (18) Red plastic (rocker, button of #07188 orange).
- (19) Transparent red plastic (button of #07188 orange, #07188 Kelly).
- (20) Black PVC plastic (wire covering of #07188 orange, #07188 Kelly, #09078, #12120).
- (21) Bright black plastic (antenna of #07188 orange, #07188 Kelly).
- (22) Black plastic (tip of antenna of #07188 orange, #07188 Kelly).
- (23) Dark green plastic (shell, body, joint of #07205).
- (24) Transparent plastic (headlight of #07205).
- (25) Grey plastic (brake of #07205).
- (26) Dark grey plastic (bullet of #07205).
- (27) Bright black plastic (switch of #07205, #07188 orange, #07188 Kelly, #09078, #12120).
- (28) Black 70°PVC plastic (tire of #07205).
- (29) Black 100°PVC plastic (hand, gun of #07205).
- (30) White soft plastic (sleeve of #07205).
- (31) Dull grey plastic (rocker, button of #07188 Kelly).
- (32) Dark orange plastic (shell of #09078).
- (33) Deep orange plastic (wheel, joint of #09078).
- (34) Black 60°PVC plastic (tire of #09078).
- (35) Black soft plastic (sleeve of #09078).

Date sample received: May 15, 2018
Testing period: May 15, 2018 to May 23, 2018



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Appendix

Applicant's Ref.	:	81177	Twist and Shoot R/C
		81179	Twist and Shoot R/C in clear display box
		81180	Twist and Shoot R/C in PVC display box
		81108	Street Troopers ~ Radio Controlled PT-808
		81113	Street Troopers ~ Radio Controlled Police PT-808
		81183	Street Troopers PT-808 R/C in PVC display box
		81109	Street Troopers, Assorted
		81111	Street Troopers PT-808 in car version
		81124	Street Troopers PT-808 - Chrome version
		81152	Radio Control Vehicle R/C Rock Crawler, Assorted
		81164	Radio Control Vehicle Rock Crawler & Rock Crawler Extreme, Asst
		81325	RC Rock Crawler in smaller box
		83022	RC Rock Crawler without battery in FFP packaging
		81155	Rock Crawler and Rock Crawler Extreme, Asst.
		83016	Rock Crawler in mailer box pack
		83017	Rock Crawler Extreme in mailer box pack



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End of report

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