

**Test Report**

Number: GZHH00336359

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

Date: Aug 28, 2019

Attn: ICY HUANG

Sample Description:

One (1) style of submitted sample said to be :

No.	Item	Description	Color
1	16950/12120	Rock Crawler 6x6	Red

Labelled Age Group : "8+"  
Applicant Specified Age : Over 8 years  
Grading for Testing :  
Packaging Provided by Applicant : Yes  
Country of Origin : China  
Applicant's Ref. : 81158 R/C Rock Crawler 6x6

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Tests conducted:

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

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To be continued



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Conclusion:

<u>Tested sample</u> Submitted sample	<u>Standard</u>	<u>Result</u>
	EN71-1:2014+A1:2018 for mechanical and physical properties	Pass
	EN71-2:2011+A1:2014 Flammability test	Pass
Tested component(s) of submitted sample	EN71-3:2013+A3:2018 on migration of certain elements	Pass
	EN71-3:2013+A3:2018 on migration of certain elements & EU 2018/725 amending 2009/48/EC (effective from Nov 18,2019) for chromium (VI) migration	Pass
	EN71-3:2019 on migration of certain elements	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 & (EU) 2018/2005. [(EU) 2018/2005 is applicable to products including toys and childcare articles placed on the market after 7 July 2020]	Pass
	<u>Test Item</u> Phthalates Content	See Test Conducted 7#
	<u>Standard</u> 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

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

Approved:



Parco Leung  
Technical Supervisor



Approved:



Crystal Huang  
Technical Support Assistant Manager



**Test Report**

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Tests Conducted

1 Physical and Mechanical Tests

As per European Standard on Safety of toys EN71-1:2014+A1:2018

The submitted samples were undergone the following abuse tests:		
<u>Test</u>	<u>Clause</u>	<u>Parameter</u>
Drop test	8.5	850 mm x 5 times
Impact test	8.7	1 kg

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	Projectile toys	NA
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
4.26	Toy disguise costumes	NA
4.27	Flying toys	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



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Clause	Testing Items	Assessment
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
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
5.15	Sledges with cords for pulling	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	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	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
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	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.
- the CE-markings were on the packaging and toy and were in correct format.

Date sample received : Aug 15, 2019  
Testing period :Aug 15, 2019 to Aug 26, 2019

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 : Aug 15, 2019  
Testing period : Aug 15, 2019 to Aug 26, 2019

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**Test Report**

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Tests Conducted

3 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A3:2018 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Ion Chromatography with UV-VIS 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)	(8)	(10)		
Aluminium (Al)	ND	6431	ND	335	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 <sup>#</sup>	ND <sup>#</sup>	ND <sup>#</sup>	0.025	0.2/0.053 <sup>◎</sup>
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
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)	20	ND	4.2	ND	2.5	180000
Organic tin **	ND <sup>Δ</sup>	ND	ND <sup>Δ</sup>	ND	2.0	12
Zinc (Zn)	ND	ND	114	ND	100	46000

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Tests Conducted

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(11)	(14)		
Aluminium (Al)	ND	ND	300	70000
Antimony (Sb)	ND	ND	10	560
Arsenic (As)	ND	ND	10	47
Barium (Ba)	ND	ND	10	18750
Boron (B)	ND	ND	50	15000
Cadmium (Cd)	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND#	ND#	0.025	0.2/0.053◎
Cobalt (Co)	ND	ND	10	130
Copper (Cu)	ND	ND	10	7700
Lead (Pb)	ND	ND	10	23
Manganese (Mn)	ND	ND	10	15000
Mercury (Hg)	ND	ND	10	94
Nickel (Ni)	ND	ND	10	930
Selenium (Se)	ND	ND	10	460
Strontium (Sr)	ND	ND	100	56000
Tin (Sn)	ND	ND	2.5	180000
Organic tin **	ND	ND	2.0	12
Zinc (Zn)	ND	ND	100	46000

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(12), (13), (15)to(22)			
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		0.025	0.2/0.053◎
Cobalt (Co)	ND		10	130
Copper (Cu)	ND		10	7700
Lead (Pb)	ND		10	23
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		2.5	180000
Organic tin **	ND		2.0	12
Zinc (Zn)	ND		100	46000

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Tests Conducted

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 (less than reporting limit)  
 © = The new chromium (VI) migration limit [(0.053mg/kg for Category (III))] were quoted from directive (EU) 2018/725 amending 2009/48/EC effective from 18 November 2019.  
 # = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Blue coating on plastic (top light of car) (sample weight: 35.5mg).
SN2	(3)	Silver color coating on plastic (pattern of remote control) (sample weight: 26.1mg).
SN3	(8)	White paper label with coatings (black, red) (sticker of remote control) (sample weight: 17.2mg).
SN4	(10)	White paper label with transparent plastic film and inaccessible coatings (sticker of car).
SN5	(11)	Black plastic (grille, top, chassis, wheel of car).
SN6	(12)	Blue plastic (wheel, axle).
SN7	(13)	Grey plastic (nail of car).
SN8	(14)	Dull black plastic (switch of car, switch, button of remote control).
SN9	(15)	Semi-transparent white plastic (direction adjustment of car).
SN10	(16)	Transparent black plastic (joint of car).
SN11	(17)	Black plastic (tube of antenna of car, remote control).
SN12	(18)	Black soft plastic (tip of antenna of car, remote control).
SN13	(19)	Matt black plastic (remote control).
SN14	(20)	Red PVC plastic (car).
SN15	(21)	Black PVC soft plastic with white printing (antenna of car, remote control).
SN16	(22)	Black 60 °PVC plastic (tie of car).

(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).

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**Test Report**

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Tests Conducted

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: Aug 15, 2019  
Testing period: Aug 15, 2019 to Aug 23, 2019

4 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Ion Chromatography with UV-VIS 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)	(8)	(10)		
Aluminium (Al)	ND	6431	ND	335	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 <sup>#</sup>	ND <sup>#</sup>	ND <sup>#</sup>	0.025	0.053 <sup>⊙</sup>
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
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)	20	ND	4.2	ND	2.5	180000
Organic tin**	ND <sup>Δ</sup>	ND	ND <sup>Δ</sup>	ND	2.0	12
Zinc (Zn)	ND	ND	114	ND	100	46000

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Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(11)	(14)		
Aluminium (Al)	ND	ND	300	70000
Antimony (Sb)	ND	ND	10	560
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Barium (Ba)	ND	ND	10	18750
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Cadmium (Cd)	ND	ND	5	17
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Chromium (VI) (Cr VI) **	ND#	ND#	0.025	0.053◎
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Zinc (Zn)	ND	ND	100	46000

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(12), (13), (15)to(22)			
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		0.025	0.053◎
Cobalt (Co)	ND		10	130
Copper (Cu)	ND		10	7700
Lead (Pb)	ND		10	23
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		2.5	180000
Organic tin **	ND		2.0	12
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 - Organic tin test result was expressed as tributyl tin.  
 ND = Not detected (less than reporting limit)  
 © = The new chromium (VI) migration limit [(0.053mg/kg for Category (III))] were quoted from directive (EU) 2018/725 amending 2009/48/EC effective from 18 November 2019.  
 # = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Blue coating on plastic (top light of car) (sample weight: 35.5mg).
SN2	(3)	Silver color coating on plastic (pattern of remote control) (sample weight: 26.1mg).
SN3	(8)	White paper label with coatings (black, red) (sticker of remote control) (sample weight: 17.2mg).
SN4	(10)	White paper label with transparent plastic film and inaccessible coatings (sticker of car).
SN5	(11)	Black plastic (grille, top, chassis, wheel of car).
SN6	(12)	Blue plastic (wheel, axle).
SN7	(13)	Grey plastic (nail of car).
SN8	(14)	Dull black plastic (switch of car, switch, button of remote control).
SN9	(15)	Semi-transparent white plastic (direction adjustment of car).
SN10	(16)	Transparent black plastic (joint of car).
SN11	(17)	Black plastic (tube of antenna of car, remote control).
SN12	(18)	Black soft plastic (tip of antenna of car, remote control).
SN13	(19)	Matt black plastic (remote control).
SN14	(20)	Red PVC plastic (car).
SN15	(21)	Black PVC soft plastic with white printing (antenna of car, remote control).
SN16	(22)	Black 60 °PVC plastic (tie of car).

(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).

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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: Aug 15, 2019  
Testing period: Aug 15, 2019 to Aug 23, 2019

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), (10), (11+12+13), (14+15+16), (17+18+19), (20+21+22), (23+24+25), (26+27+28), (29+30+31), (32+33+34), (35+36+37), (38+39+40), (41+42+43), (44+45), (46)to(51)	
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):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Blue coating on plastic (top light of car).
SN2	(2)	Coatings (black, red) on paper (sticker of remote control).
SN3	(3)	Silver color coating on plastic (pattern of remote control).
SN4	(10)	White paper label with transparent plastic film and inaccessible coatings (sticker of car).
SN5	(11)	Black plastic (grille, top, chassis, wheel of car).
SN6	(12)	Blue plastic (wheel, axle).

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Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN7	(13)	Grey plastic (nail of car).
SN8	(14)	Dull black plastic (switch of car, switch, button of remote control).
SN9	(15)	Semi-transparent white plastic (direction adjustment of car).
SN10	(16)	Transparent black plastic (joint of car).
SN11	(17)	Black plastic (tube of antenna of car, remote control).
SN12	(18)	Black soft plastic (tip of antenna of car, remote control).
SN13	(19)	Matt black plastic (remote control).
SN14	(20)	Red PVC plastic (car).
SN15	(21)	Black PVC soft plastic with white printing (antenna of car, remote control).
SN16	(22)	Black 60 °PVC plastic (tie of car).
SN17	(23)	Bright black PVC soft plastic (cable of car) (internal).
SN18	(24)	Black soft plastic with white printing (wire covering of car, remote control) (internal).
SN19	(25)	White PVC soft plastic with grey printing (wire covering of car) (internal).
SN20	(26)	Green PVC soft plastic with white printing (wire covering of car) (internal).
SN21	(27)	Red PVC soft plastic with white printing (wire covering of car) (internal).
SN22	(28)	Dark blue PVC soft plastic with white printing (wire covering of car) (internal).
SN23	(29)	Orange PVC soft plastic with black printing (wire covering of car) (internal).
SN24	(30)	Brown PVC soft plastic (thin wire covering of car) (internal).
SN25	(31)	Red PVC soft plastic (thin wire covering of car) (internal).
SN26	(32)	Orange PVC soft plastic (thin wire covering of car) (internal).
SN27	(33)	Yellow PVC soft plastic (thin wire covering of car) (internal).
SN28	(34)	Green PVC soft plastic (thin wire covering of car) (internal).
SN29	(35)	Dark blue PVC soft plastic (thin wire covering of car) (internal).
SN30	(36)	Purple PVC soft plastic (thin wire covering of car) (internal).
SN31	(37)	Dark red PVC soft plastic (wire covering of remote control) (internal).
SN32	(38)	Brown plastic (base of switch of car, remote control) (internal).
SN33	(39)	White plastic with white lube (gear of car) (internal).
SN34	(40)	Beige plastic (joint of car) (internal).
SN35	(41)	Cream white plastic (plug of car) (internal).
SN36	(42)	Black plastic with white printing (cover of capacitor of car) (internal).
SN37	(43)	Black soft plastic (base of capacitor of car) (internal).
SN38	(44)	Black plastic (contact switch of remote control) (internal).
SN39	(45)	Dark white plastic (lid of motor of car) (internal).
SN40	(46)	Plastic part on motor (motor of car) (internal).
SN41	(47)	Green/brown PCB (PCB of car) (internal).
SN42	(48)	Plastic part on PCB (PCB of car, remote control) (internal).
SN43	(49)	Green PCB (small PCB of car, remote control) (internal).
SN44	(50)	Green/dark brown PCB (PCB of remote control) (internal).
SN45	(51)	Dark green/brown PCB (PCB of switch of car) (internal).

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Number: GZHH00336359

Tests Conducted

The Cadmium content test of the tested components (2), (3) were conducted in composite for the materials which sample size is not sufficient to carry out the test individually.

Date sample received: Aug 15, 2019  
Testing period: Aug 15, 2019 to Aug 23, 2019

6 Phthalate Content

With reference to International Standard ISO 8124-6:2018, and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

For 4 phthalate

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested component (23+24+25), (26+27+28), (29+30+31), (32+33+34), (35+36+37), (38+39+40), (41+42+43), (44+45), (46)to(51)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	--
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.005	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	--
Sum of DBP,DEHP, BBP and DIBP	--	ND	--	0.1

For 7 phthalate

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested component (4), (9), (10), (11+12+13), (14+15+16), (17+18+19), (20+21+22)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	--
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.005	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	--
Sum of DBP, DEHP, BBP and DIBP	--	ND	--	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.005	--
Di-n-octyl phthalate(DNOP)	117-84-0	ND	0.005	--
Di-iso-decyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	0.005	--
Sum of DINP, DNOP and DIDP	--	ND	--	0.1

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**Test Report**

Number: GZHH00336359

Tests Conducted

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 for phthalate content in articles (formerly known as Directive 2005/84/EC).

For toys and childcare articles, combination of DIBP to current limit (sum of DBP, DEHP and BBP) was quoted from Commission Regulation (EU) 2018/2005 effective from 7 July 2020.

ND = Not detected (less than reporting limit)

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(4)	Coatings (blue, black, red, silver color) on plastic/paper (top light, sticker of car, pattern of remote control).
SN2	(9)	White paper label excluding coating (sticker of remote control).
SN3	(10)	White paper label with transparent plastic film and inaccessible coatings (sticker of car).
SN4	(11)	Black plastic (grille, top, chassis, wheel of car).
SN5	(12)	Blue plastic (wheel, axle).
SN6	(13)	Grey plastic (nail of car).
SN7	(14)	Dull black plastic (switch of car, switch, button of remote control).
SN8	(15)	Semi-transparent white plastic (direction adjustment of car).
SN9	(16)	Transparent black plastic (joint of car).
SN10	(17)	Black plastic (tube of antenna of car, remote control).
SN11	(18)	Black soft plastic (tip of antenna of car, remote control).
SN12	(19)	Matt black plastic (remote control).
SN13	(20)	Red PVC plastic (car).
SN14	(21)	Black PVC soft plastic with white printing (antenna of car, remote control).
SN15	(22)	Black 60 °PVC plastic (tie of car).
SN16	(23)	Bright black PVC soft plastic (cable of car) (internal).
SN17	(24)	Black soft plastic with white printing (wire covering of car, remote control) (internal).
SN18	(25)	White PVC soft plastic with grey printing (wire covering of car) (internal).
SN19	(26)	Green PVC soft plastic with white printing (wire covering of car) (internal).
SN20	(27)	Red PVC soft plastic with white printing (wire covering of car) (internal).
SN21	(28)	Dark blue PVC soft plastic with white printing (wire covering of car) (internal).
SN22	(29)	Orange PVC soft plastic with black printing (wire covering of car) (internal).
SN23	(30)	Brown PVC soft plastic (thin wire covering of car) (internal).
SN24	(31)	Red PVC soft plastic (thin wire covering of car) (internal).

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**Test Report**

Number: GZHH00336359

Tests Conducted

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN25	(32)	Orange PVC soft plastic (thin wire covering of car) (internal).
SN26	(33)	Yellow PVC soft plastic (thin wire covering of car) (internal).
SN27	(34)	Green PVC soft plastic (thin wire covering of car) (internal).
SN28	(35)	Dark blue PVC soft plastic (thin wire covering of car) (internal).
SN29	(36)	Purple PVC soft plastic (thin wire covering of car) (internal).
SN30	(37)	Dark red PVC soft plastic (wire covering of remote control) (internal).
SN31	(38)	Brown plastic (base of switch of car, remote control) (internal).
SN32	(39)	White plastic with white lube (gear of car) (internal).
SN33	(40)	Beige plastic (joint of car) (internal).
SN34	(41)	Cream white plastic (plug of car) (internal).
SN35	(42)	Black plastic with white printing (cover of capacitor of car) (internal).
SN36	(43)	Black soft plastic (base of capacitor of car) (internal).
SN37	(44)	Black plastic (contact switch of remote control) (internal).
SN38	(45)	Dark white plastic (lid of motor of car) (internal).
SN39	(46)	Plastic part on motor (motor of car) (internal).
SN40	(47)	Green/brown PCB (PCB of car) (internal).
SN41	(48)	Plastic part on PCB (PCB of car, remote control) (internal).
SN42	(49)	Green PCB (small PCB of car, remote control) (internal).
SN43	(50)	Green/dark brown PCB (PCB of remote control) (internal).
SN44	(51)	Dark green/brown PCB (PCB of switch of car) (internal).

Date sample received: Aug 15, 2019  
Testing period: Aug 15, 2019 to Aug 21, 2019

7 **Phthalates Content**

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

Test item	Result (%)	Reporting limit (%)
	Tested component (4), (9), (10), (11+12+13), (14+15+16), (17+18+19), (20+21+22), (23+24+25), (26+27+28), (29+30+31), (32+33+34), (35+36+37), (38+39+40), (41+42+43), (44+45), (46)to(51)	
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

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**Test Report**

Number: GZHH00336359

Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(4)	Coatings (blue, black, red, silver color) on plastic/paper (top light, sticker of car, pattern of remote control).
SN2	(9)	White paper label excluding remote coating (sticker of remote control).
SN3	(10)	White paper label with transparent plastic film and inaccessible coatings (sticker of car).
SN4	(11)	Black plastic (grille, top, chassis, wheel of car).
SN5	(12)	Blue plastic (wheel, axle).
SN6	(13)	Grey plastic (nail of car).
SN7	(14)	Dull black plastic (switch of car, switch, button of remote control).
SN8	(15)	Semi-transparent white plastic (direction adjustment of car).
SN9	(16)	Transparent black plastic (joint of car).
SN10	(17)	Black plastic (tube of antenna of car, remote control).
SN11	(18)	Black soft plastic (tip of antenna of car, remote control).
SN12	(19)	Matt black plastic (remote control).
SN13	(20)	Red PVC plastic (car).
SN14	(21)	Black PVC soft plastic with white printing (antenna of car, remote control).
SN15	(22)	Black 60 °PVC plastic (tie of car).
SN16	(23)	Bright black PVC soft plastic (cable of car) (internal).
SN17	(24)	Black soft plastic with white printing (wire covering of car, remote control) (internal).
SN18	(25)	White PVC soft plastic with grey printing (wire covering of car) (internal).
SN19	(26)	Green PVC soft plastic with white printing (wire covering of car) (internal).
SN20	(27)	Red PVC soft plastic with white printing (wire covering of car) (internal).
SN21	(28)	Dark blue PVC soft plastic with white printing (wire covering of car) (internal).
SN22	(29)	Orange PVC soft plastic with black printing (wire covering of car) (internal).
SN23	(30)	Brown PVC soft plastic (thin wire covering of car) (internal).
SN24	(31)	Red PVC soft plastic (thin wire covering of car) (internal).
SN25	(32)	Orange PVC soft plastic (thin wire covering of car) (internal).
SN26	(33)	Yellow PVC soft plastic (thin wire covering of car) (internal).
SN27	(34)	Green PVC soft plastic (thin wire covering of car) (internal).
SN28	(35)	Dark blue PVC soft plastic (thin wire covering of car) (internal).
SN29	(36)	Purple PVC soft plastic (thin wire covering of car) (internal).
SN30	(37)	Dark red PVC soft plastic (wire covering of remote control) (internal).
SN31	(38)	Brown plastic (base of switch of car, remote control) (internal).
SN32	(39)	White plastic with white lube (gear of car) (internal).

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**Test Report**

Number: GZHH00336359

Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN33	(40)	Beige plastic (joint of car) (internal).
SN34	(41)	Cream white plastic (plug of car) (internal).
SN35	(42)	Black plastic with white printing (cover of capacitor of car) (internal).
SN36	(43)	Black soft plastic (base of capacitor of car) (internal).
SN37	(44)	Black plastic (contact switch of remote control) (internal).
SN38	(45)	Dark white plastic (lid of motor of car) (internal).
SN39	(46)	Plastic part on motor (motor of car) (internal).
SN40	(47)	Green/brown PCB (PCB of car) (internal).
SN41	(48)	Plastic part on PCB (PCB of car, remote control) (internal).
SN42	(49)	Green PCB (small PCB of car, remote control) (internal).
SN43	(50)	Green/dark brown PCB (PCB of remote control) (internal).
SN44	(51)	Dark green/brown PCB (PCB of switch of car) (internal).

Date sample received : Aug 15, 2019  
Testing period : Aug 15, 2019 to Aug 21, 2019

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			
	(2), (10), (12+13), (14+15), (16+17), (18+20), (21+22), (52+53)			
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 (less than reporting limit)

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**Test Report**

Number: GZHH00336359

Tests Conducted

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(2)	Coatings (black, red) on paper (sticker of remote control).
SN2	(10)	White paper label with transparent plastic film and inaccessible coatings (sticker of car).
SN3	(12)	Blue plastic (wheel, axle).
SN4	(13)	Grey plastic (nail of car).
SN5	(14)	Dull black plastic (switch of car, switch, button of remote control).
SN6	(15)	Semi-transparent white plastic (direction adjustment of car).
SN7	(16)	Transparent black plastic (joint of car).
SN8	(17)	Black plastic (tube of antenna of car, remote control).
SN9	(18)	Black soft plastic (tip of antenna of car, remote control).
SN10	(20)	Red PVC plastic (car).
SN11	(21)	Black PVC soft plastic with white printing (antenna of car, remote control).
SN12	(22)	Black 60 °PVC plastic (tie of car).
SN13	(52)	Black plastic with blue coating (grille, top, chassis, wheel of car).
SN14	(53)	Matt black plastic with silver color coating (remote control).

Date sample received: Aug 15, 2019  
Testing period: Aug 15, 2019 to Aug 21, 2019

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**Test Report**

Number: GZHH00336359

Tests Conducted



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End of report

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