

Test Report

Number: GZHH00399484

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 12, 2021

Attn: ICY HUANG

Sample Description:

Two (2) styles of submitted sample said to be :

No.	Item	Description	Color
1	14171/14172	RC Speed Boat	Black/Orange
2	82181/19181	R/C Work Machines ~ Unimog U430 Truck	Orange

Labelled Age Group : Truck: 5+, Boat: 8+
Appropriate Age Grade for : Over 5 years for truck, Over 8 years for boat
Testing
Packaging Provided by Applicant : Yes
Country of Origin : China
Applicant's Ref. : 81322 RC Speed Boat
82180 RC Work Machine Assorted
82181 Unimog U430 Truck
Above sample information is submitted and/or identified by client
Date Sample Received : Mar 22, 2021 & Apr 20, 2021
Testing Period : Mar 22, 2021 ~ May 11, 2021

Tests conducted:

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



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Conclusion:

<u>Tested sample</u> Submitted sample(s)	<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
	EN 71-2: 2020 Flammability test	Pass#
Tested component(s) of submitted sample(s)	EN 71-3:2019 on migration of certain elements and (EU) 2019/1922 amending 2009/48/EC (applies from 20 May 2021) for Aluminium migration	Pass
	EN 71-3:2019 on migration of certain elements	Pass
	Cadmium Content Requirement in Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217	Pass
	Phthalates Content Requirement in Annex XVII Entry 51 & 52 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009 and (EU) 2018/2005	Pass
	<u>Test Item</u> Phthalates Content	See Test Conducted #
	<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

To be continued



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Conclusion:

<u>Tested sample</u> Submitted sample(s)	<u>Standard</u>	<u>Result</u>
	BS EN71-1:2014+A1:2018 for mechanical and physical properties	Pass
	BS EN71-2:2011+A1:2014 Flammability test	Pass
	BS EN 71-2: 2020 Flammability test	Pass#
Tested component(s) of submitted sample(s)	BS EN 71-3:2019 on migration of certain elements	Pass
	BS EN 71-3:2019 on migration of certain elements and (EU) 2019/1922 amending 2009/48/EC (applies from 20 May 2021) for Aluminium migration	Pass
	Cadmium Content Requirement in Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended	Pass
	Phthalates Content Requirement in Annex XVII Entry 51 & 52 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009 and (EU) 2018/2005 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended	Pass
	Polycyclic Aromatic Hydrocarbons (PAHs) Content Requirement in Annex XVII Entry 50 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009 and (EU) No 1272/2013 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended	Pass

: This test in the report is not in the CNAS accredited testing scope.

Approved:




Zhou Rui Bin
Technical Assistant Manager

Approved:



Echo Yang
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+A1:2018

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

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



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Clause	Testing Items	Assessment
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
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	P/#
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



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Remark: P = Pass NA = Not Applicable

Age warning information for truck:

= Age warning statement and indication of hazard was found on the packaging.

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.

	Toy	Packaging
Manufacturer's name	Present	Present
Manufacturer's address	Absent	Present
Importer's name	Present	Present
Importer's address	Absent	Present
Product identification code	Absent	Present
CE-marking	Present In correct format	Present In correct format

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



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3 Flammability Test

Test Standard : European Standard on Safety of Toys EN 71 - 2: 2020

Clause	Testing items	Assessment
4.1	General requirements	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

Abbreviation : P = Pass

NA = Not applicable

4 19 Toxic Element Migration Test

(A) Test Result

As per EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Ion Chromatography with UV-VIS.

Category (III): Scraped-off toy material

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(2)	(19)		
Aluminium (Al)	874	ND	300	70000 / 28130 [▲]
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	0.053
Cobalt (Co)	ND	ND	10	130
Copper (Cu)	ND	10	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	5	12
Zinc (Zn)	ND	ND	100	46000



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Tests Conducted

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(1), (3)to(18), (20), (21)			
Aluminium (Al)	ND		300	70000 / 28130 [▲]
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		5	12
Zinc (Zn)	ND		100	46000

Remark : mg/kg = milligram per kilogram
 ++ = Unless the test results were marked with "Δ", Organic tin contents were not directly determined and were derived from migration results of total tin.
 - Organic tin test result was expressed as tributyl tin.
 ND = Not detected (less than reporting limit)
 ▲ = The new Aluminium migration limit were quoted from Directive (EU) 2019/1922 amending Directive 2009/48/EC applicable from 20 May 2021.
 # = 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)	Black coating on plastic (pattern of #14171) (sample weight: 43.1mg).
SN2	(2)	Coatings (white, red, black, silver color) on plastic (head, taillight of car, button, steering wheel of remote control of #82181) (sample weight: 53.2mg).
SN3	(3)	Black 60 °PVC plastic (tire of #82181).
SN4	(4)	Orange plastic (body of #14171).
SN5	(5)	White adhesive plastic with inaccessible coatings (sticker of #14171).
SN6	(6)	Black plastic (lid, paddle blade of boat of #14171).



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Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN7	(7)	Red plastic (button of remote control of #14171).
SN8	(8)	Grey plastic (body of remote control of #14171).
SN9	(9)	Matte black plastic (body of remote control of #82181).
SN10	(10)	Black plastic (switch of remote control of #82181).
SN11	(11)	Light silver color plastic (rim, truck of #82181).
SN12	(12)	Dark yellow plastic (head of #82181).
SN13	(13)	Bright black plastic (window of #82181).
SN14	(14)	Beige plastic (adjustment of classis, bridge of wheel of #82181).
SN15	(15)	Black plastic (switch of #82181).
SN16	(16)	Black soft plastic (lid of #14171).
SN17	(17)	Black plastic (tube of antenna of remote control of both styles).
SN18	(18)	Black plastic (tip of antenna of remote control of both styles).
SN19	(19)	Black PVC plastic (antenna of both styles).
SN20	(20)	Transparent adhesive plastic with inaccessible coatings (mirror of #82181) (sample weight: 34.1mg).
SN21	(21)	White adhesive paper with multicolor printings (sticker of remote control of #14171, #82181) (sample weight: 93.3mg).

(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).



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5 19 Toxic Element Migration Test

(A) Test Result

As per EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography with UV-VIS.

Category (III): Scraped-off toy material

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(2)	(19)		
Aluminium (Al)	874	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	0.053
Cobalt (Co)	ND	ND	10	130
Copper (Cu)	ND	10	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	5	12
Zinc (Zn)	ND	ND	100	46000



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Tests Conducted

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(1), (3)to(18), (20), (21)			
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		5	12
Zinc (Zn)	ND		100	46000

Remark : mg/kg = milligram per kilogram
 ++ = Unless the test results were marked with "Δ", Organic tin contents were not directly determined and were derived from migration results of total tin.
 - Organic tin test result was expressed as tributyl tin.
 ND = Not detected (less than reporting limit)
 # = 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)	Black coating on plastic (pattern of #14171) (sample weight: 43.1mg).
SN2	(2)	Coatings (white, red, black, silver color) on plastic (head, taillight of car, button, steering wheel of remote control of #82181) (sample weight: 53.2mg).
SN3	(3)	Black 60 °PVC plastic (tire of #82181).
SN4	(4)	Orange plastic (body of #14171).
SN5	(5)	White adhesive plastic with inaccessible coatings (sticker of #14171).
SN6	(6)	Black plastic (lid, paddle blade of boat of #14171).
SN7	(7)	Red plastic (button of remote control of #14171).
SN8	(8)	Grey plastic (body of remote control of #14171).



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Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN9	(9)	Matte black plastic (body of remote control of #82181).
SN10	(10)	Black plastic (switch of remote control of #82181).
SN11	(11)	Light silver color plastic (rim, truck of #82181).
SN12	(12)	Dark yellow plastic (head of #82181).
SN13	(13)	Bright black plastic (window of #82181).
SN14	(14)	Beige plastic (adjustment of classis, bridge of wheel of #82181).
SN15	(15)	Black plastic (switch of #82181).
SN16	(16)	Black soft plastic (lid of #14171).
SN17	(17)	Black plastic (tube of antenna of remote control of both styles).
SN18	(18)	Black plastic (tip of antenna of remote control of both styles).
SN19	(19)	Black PVC plastic (antenna of both styles).
SN20	(20)	Transparent adhesive plastic with inaccessible coatings (mirror of #82181) (sample weight: 34.1mg).
SN21	(21)	White adhesive paper with multicolor printings (sticker of remote control of #14171, #82181) (sample weight: 93.3mg).

(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).



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Tests Conducted

6 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+4+5), (6+7+8), (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), (47)to(53)	
Cadmium (Cd)	ND	0.0005

Limit:

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

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217, Annex XVII Entry 23 on Cadmium Content.

ND = Not detected (less than reporting limit)

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Black coating on plastic (pattern of #14171).
SN2	(2)	Coatings (white, red, black, silver color) on plastic (head, taillight of car, button, steering wheel of remote control of #82181).
SN3	(3)	Black 60 °PVC plastic (tire of #82181).
SN4	(4)	Orange plastic (body of #14171).
SN5	(5)	White adhesive plastic with inaccessible coatings (sticker of #14171).
SN6	(6)	Black plastic (lid, paddle blade of boat of #14171).
SN7	(7)	Red plastic (button of remote control of #14171).
SN8	(8)	Grey plastic (body of remote control of #14171).
SN9	(9)	Matte black plastic (body of remote control of #82181).
SN10	(10)	Black plastic (switch of remote control of #82181).
SN11	(11)	Light silver color plastic (rim, truck of #82181).
SN12	(12)	Dark yellow plastic (head of #82181).
SN13	(13)	Bright black plastic (window of #82181).
SN14	(14)	Beige plastic (adjustment of classis, bridge of wheel of #82181).
SN15	(15)	Black plastic (switch of #82181).



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Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN16	(16)	Black soft plastic (lid of #14171).
SN17	(17)	Black plastic (tube of antenna of remote control of both styles).
SN18	(18)	Black plastic (tip of antenna of remote control of both styles).
SN19	(19)	Black PVC plastic (antenna of both styles).
SN20	(20)	Transparent adhesive plastic with inaccessible coatings (mirror of #82181).
SN21	(21)	White adhesive paper with multicolor printings (sticker of remote control of #14171, #82181).
SN22	(22)	Black/dark red PVC plastic with white printing (wire covering of boat of #14171) (internal).
SN23	(23)	Black/brown PVC plastic with white printing (wire covering of boat of #14171) (internal).
SN24	(24)	Orange PVC plastic with black printing (wire covering of boat of #14171) (internal).
SN25	(25)	Red PVC plastic (wire covering of remote control of #82181) (internal).
SN26	(26)	Black PVC plastic (wire covering of remote control of #82181) (internal).
SN27	(27)	Transparent PVC plastic (wire covering of remote control of #82181) (internal).
SN28	(28)	Transparent PVC plastic (wire covering of car of #82181) (internal).
SN29	(29)	Black PVC plastic with white printing (wire covering of car of #82181) (internal).
SN30	(30)	Green PVC plastic with white printing (wire covering of car of #82181) (internal).
SN31	(31)	White PVC plastic with black printing (wire covering of car of #82181) (internal).
SN32	(32)	Blue PVC plastic (wire covering of car of #82181) (internal).
SN33	(33)	Transparent black plastic (fixture of motor of boat of #14171) (internal).
SN34	(34)	Black soft plastic (seal of boat of #14171) (internal).
SN35	(35)	Transparent soft plastic (tube of axel of boat of #14171) (internal).
SN36	(36)	Green plastic with gold color printing (capacitor of boat of #14171) (internal).
SN37	(37)	Black plastic (base of capacitor of boat of #14171) (internal).
SN38	(38)	Brown plastic (inductor of boat of #14171) (internal).
SN39	(39)	Beige plastic (lid of motor of boat of #14171) (internal).
SN40	(40)	Black plastic (contact switch of remote control of #82181) (internal).
SN41	(41)	Black plastic (button of PCB of remote control of #82181) (internal).
SN42	(42)	Brown plastic (PCB of switch of remote control of #82181) (internal).



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Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN43	(43)	Green plastic with multicolor printings (inductor of remote control of #14171, car of #82181) (internal).
SN44	(44)	Beige plastic (lid of motor of car of #82181) (internal).
SN45	(45)	Semi-transparent beige plastic (small lid of motor of #82181) (internal).
SN46	(46)	Brown plastic (PCB of switch of car of #82181) (internal).
SN47	(47)	Copper color PCB (PCB of motor) (internal).
SN48	(48)	Dark yellow soft material (fastener of inner body of boat of #14171) (internal).
SN49	(49)	Plastic part of motor (motor of boat of #14171) (internal).
SN50	(50)	Green/brown PCB with plastic part (PCB of boat of #14171) (internal).
SN51	(51)	Green/brown PCB with plastic part (PCB of remote control of #82181) (internal).
SN52	(52)	Green/brown PCB with plastic part (PCB of remote control of #14171) (internal).
SN53	(53)	Green/brown PCB with plastic part (PCB of car of #82181) (internal).

7 Phthalate Content

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

For 4 phthalates

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested Component (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), (47)to(53)		
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



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Number: GZHH00399484

Tests Conducted

For 7 phthalates

Test Item	CAS No.	Result (%)		Reporting Limit (%)	Limit (%)
		Tested Component			
		(1+2), (3), (4+5+6), (7+8+9), (10+11+12), (13+14+15), (16+17+18), (19+20), (21)			
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	ND		0.005	--
Di-n-octyl phthalate(DNOP)	117-84-0	ND		0.005	--
Di-iso-decyl phthalate (DIDP)	26761-40-0	ND		0.005	--
Sum of DINP, DNOP and DIDP	--	ND		--	0.1

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009 and (EU) 2018/2005, Annex XVII Entry 51 & 52 on Phthalate Content.

ND = Not detected (less than reporting limit)

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Black coating on plastic (pattern of #14171).
SN2	(2)	Coatings (white, red, black, silver color) on plastic (head, taillight of car, button, steering wheel of remote control of #82181).
SN3	(3)	Black 60 °PVC plastic (tire of #82181).
SN4	(4)	Orange plastic (body of #14171).
SN5	(5)	White adhesive plastic with inaccessible coatings (sticker of #14171).
SN6	(6)	Black plastic (lid, paddle blade of boat of #14171).
SN7	(7)	Red plastic (button of remote control of #14171).
SN8	(8)	Grey plastic (body of remote control of #14171).
SN9	(9)	Matte black plastic (body of remote control of #82181).
SN10	(10)	Black plastic (switch of remote control of #82181).
SN11	(11)	Light silver color plastic (rim, truck of #82181).
SN12	(12)	Dark yellow plastic (head of #82181).
SN13	(13)	Bright black plastic (window of #82181).
SN14	(14)	Beige plastic (adjustment of classis, bridge of wheel of #82181).
SN15	(15)	Black plastic (switch of #82181).



Test Report

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Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN16	(16)	Black soft plastic (lid of #14171).
SN17	(17)	Black plastic (tube of antenna of remote control of both styles).
SN18	(18)	Black plastic (tip of antenna of remote control of both styles).
SN19	(19)	Black PVC plastic (antenna of both styles).
SN20	(20)	Transparent adhesive plastic with inaccessible coatings (mirror of #82181).
SN21	(21)	White adhesive paper with multicolor printings (sticker of remote control of #14171, #82181).
SN22	(22)	Black/dark red PVC plastic with white printing (wire covering of boat of #14171) (internal).
SN23	(23)	Black/brown PVC plastic with white printing (wire covering of boat of #14171) (internal).
SN24	(24)	Orange PVC plastic with black printing (wire covering of boat of #14171) (internal).
SN25	(25)	Red PVC plastic (wire covering of remote control of #82181) (internal).
SN26	(26)	Black PVC plastic (wire covering of remote control of #82181) (internal).
SN27	(27)	Transparent PVC plastic (wire covering of remote control of #82181) (internal).
SN28	(28)	Transparent PVC plastic (wire covering of car of #82181) (internal).
SN29	(29)	Black PVC plastic with white printing (wire covering of car of #82181) (internal).
SN30	(30)	Green PVC plastic with white printing (wire covering of car of #82181) (internal).
SN31	(31)	White PVC plastic with black printing (wire covering of car of #82181) (internal).
SN32	(32)	Blue PVC plastic (wire covering of car of #82181) (internal).
SN33	(33)	Transparent black plastic (fixture of motor of boat of #14171) (internal).
SN34	(34)	Black soft plastic (seal of boat of #14171) (internal).
SN35	(35)	Transparent soft plastic (tube of axel of boat of #14171) (internal).
SN36	(36)	Green plastic with gold color printing (capacitor of boat of #14171) (internal).
SN37	(37)	Black plastic (base of capacitor of boat of #14171) (internal).
SN38	(38)	Brown plastic (inductor of boat of #14171) (internal).
SN39	(39)	Beige plastic (lid of motor of boat of #14171) (internal).
SN40	(40)	Black plastic (contact switch of remote control of #82181) (internal).
SN41	(41)	Black plastic (button of PCB of remote control of #82181) (internal).
SN42	(42)	Brown plastic (PCB of switch of remote control of #82181) (internal).
SN43	(43)	Green plastic with multicolor printings (inductor of remote control of #14171, car of #82181) (internal).



Test Report

Number: GZHH00399484

Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN44	(44)	Beige plastic (lid of motor of car of #82181) (internal).
SN45	(45)	Semi-transparent beige plastic (small lid of motor of #82181) (internal).
SN46	(46)	Brown plastic (PCB of switch of car of #82181) (internal).
SN47	(47)	Copper color PCB (PCB of motor) (internal).
SN48	(48)	Dark yellow soft material (fastener of inner body of boat of #14171) (internal).
SN49	(49)	Plastic part of motor (motor of boat of #14171) (internal).
SN50	(50)	Green/brown PCB with plastic part (PCB of boat of #14171) (internal).
SN51	(51)	Green/brown PCB with plastic part (PCB of remote control of #82181) (internal).
SN52	(52)	Green/brown PCB with plastic part (PCB of remote control of #14171) (internal).
SN53	(53)	Green/brown PCB with plastic part (PCB of car of #82181) (internal).

8 Phthalates Content

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

Test item	Result (%)	Reporting limit (%)
	Tested component (1+2), (3), (4+5+6), (7+8+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), (47)to(53)	
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

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Black coating on plastic (pattern of #14171).
SN2	(2)	Coatings (white, red, black, silver color) on plastic (head, taillight of car, button, steering wheel of remote control of #82181).
SN3	(3)	Black 60 °PVC plastic (tire of #82181).
SN4	(4)	Orange plastic (body of #14171).



Test Report

Number: GZHH00399484

Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN5	(5)	White adhesive plastic with inaccessible coatings (sticker of #14171).
SN6	(6)	Black plastic (lid, paddle blade of boat of #14171).
SN7	(7)	Red plastic (button of remote control of #14171).
SN8	(8)	Grey plastic (body of remote control of #14171).
SN9	(9)	Matte black plastic (body of remote control of #82181).
SN10	(10)	Black plastic (switch of remote control of #82181).
SN11	(11)	Light silver color plastic (rim, truck of #82181).
SN12	(12)	Dark yellow plastic (head of #82181).
SN13	(13)	Bright black plastic (window of #82181).
SN14	(14)	Beige plastic (adjustment of classis, bridge of wheel of #82181).
SN15	(15)	Black plastic (switch of #82181).
SN16	(16)	Black soft plastic (lid of #14171).
SN17	(17)	Black plastic (tube of antenna of remote control of both styles).
SN18	(18)	Black plastic (tip of antenna of remote control of both styles).
SN19	(19)	Black PVC plastic (antenna of both styles).
SN20	(20)	Transparent adhesive plastic with inaccessible coatings (mirror of #82181).
SN21	(21)	White adhesive paper with multicolor printings (sticker of remote control of #14171, #82181).
SN22	(22)	Black/dark red PVC plastic with white printing (wire covering of boat of #14171) (internal).
SN23	(23)	Black/brown PVC plastic with white printing (wire covering of boat of #14171) (internal).
SN24	(24)	Orange PVC plastic with black printing (wire covering of boat of #14171) (internal).
SN25	(25)	Red PVC plastic (wire covering of remote control of #82181) (internal).
SN26	(26)	Black PVC plastic (wire covering of remote control of #82181) (internal).
SN27	(27)	Transparent PVC plastic (wire covering of remote control of #82181) (internal).
SN28	(28)	Transparent PVC plastic (wire covering of car of #82181) (internal).
SN29	(29)	Black PVC plastic with white printing (wire covering of car of #82181) (internal).
SN30	(30)	Green PVC plastic with white printing (wire covering of car of #82181) (internal).
SN31	(31)	White PVC plastic with black printing (wire covering of car of #82181) (internal).
SN32	(32)	Blue PVC plastic (wire covering of car of #82181) (internal).
SN33	(33)	Transparent black plastic (fixture of motor of boat of #14171) (internal).
SN34	(34)	Black soft plastic (seal of boat of #14171) (internal).
SN35	(35)	Transparent soft plastic (tube of axel of boat of #14171) (internal).



Test Report

Number: GZHH00399484

Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN36	(36)	Green plastic with gold color printing (capacitor of boat of #14171) (internal).
SN37	(37)	Black plastic (base of capacitor of boat of #14171) (internal).
SN38	(38)	Brown plastic (inductor of boat of #14171) (internal).
SN39	(39)	Beige plastic (lid of motor of boat of #14171) (internal).
SN40	(40)	Black plastic (contact switch of remote control of #82181) (internal).
SN41	(41)	Black plastic (button of PCB of remote control of #82181) (internal).
SN42	(42)	Brown plastic (PCB of switch of remote control of #82181) (internal).
SN43	(43)	Green plastic with multicolor printings (inductor of remote control of #14171, car of #82181) (internal).
SN44	(44)	Beige plastic (lid of motor of car of #82181) (internal).
SN45	(45)	Semi-transparent beige plastic (small lid of motor of #82181) (internal).
SN46	(46)	Brown plastic (PCB of switch of car of #82181) (internal).
SN47	(47)	Copper color PCB (PCB of motor) (internal).
SN48	(48)	Dark yellow soft material (fastener of inner body of boat of #14171) (internal).
SN49	(49)	Plastic part of motor (motor of boat of #14171) (internal).
SN50	(50)	Green/brown PCB with plastic part (PCB of boat of #14171) (internal).
SN51	(51)	Green/brown PCB with plastic part (PCB of remote control of #82181) (internal).
SN52	(52)	Green/brown PCB with plastic part (PCB of remote control of #14171) (internal).
SN53	(53)	Green/brown PCB with plastic part (PCB of car of #82181) (internal).

9 Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2019:01 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+2), (3+4), (5+6), (7+8), (9+10), (11+12), (13+14), (15+16), (17+18), (19), (21)		
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)



Test Report

Number: GZHH00399484

Tests Conducted

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Black coating on plastic (pattern of #14171).
SN2	(2)	Coatings (white, red, black, silver color) on plastic (head, taillight of car, button, steering wheel of remote control of #82181).
SN3	(3)	Black 60 °PVC plastic (tire of #82181).
SN4	(4)	Orange plastic (body of #14171).
SN5	(5)	White adhesive plastic with inaccessible coatings (sticker of #14171).
SN6	(6)	Black plastic (lid, paddle blade of boat of #14171).
SN7	(7)	Red plastic (button of remote control of #14171).
SN8	(8)	Grey plastic (body of remote control of #14171).
SN9	(9)	Matte black plastic (body of remote control of #82181).
SN10	(10)	Black plastic (switch of remote control of #82181).
SN11	(11)	Light silver color plastic (rim, truck of #82181).
SN12	(12)	Dark yellow plastic (head of #82181).
SN13	(13)	Bright black plastic (window of #82181).
SN14	(14)	Beige plastic (adjustment of classis, bridge of wheel of #82181).
SN15	(15)	Black plastic (switch of #82181).
SN16	(16)	Black soft plastic (lid of #14171).
SN17	(17)	Black plastic (tube of antenna of remote control of both styles).
SN18	(18)	Black plastic (tip of antenna of remote control of both styles).
SN19	(19)	Black PVC plastic (antenna of both styles).
SN20	(21)	White adhesive paper with multicolor printings (sticker of remote control of #14171, #82181).

10 Physical and Mechanical Tests

As per European Standard on Safety of toys BS 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



Test Report

Number: GZHH00399484

Tests Conducted

Clause	Testing Items	Assessment
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
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	P/#
7.3	Latex balloons	NA
7.4	Aquatic toys	NA



Test Report

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Tests Conducted

Clause	Testing Items	Assessment
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

Age warning information for truck:

= Age warning statement and indication of hazard was found on the packaging.



Test Report

Number: GZHH00399484

Tests Conducted

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

Below is additional information checking according to the UK Toy (Safety) Regulations requirement.

Marking

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself.

After checking, it was found that

	Toy	Packaging
Name of authorised representative in Great Britain	Absent	Absent
Address of authorised representative in Great Britain	Absent	Absent
Product identification code	Absent	Present

With reference to the guidance of using UKCA marking from 1 January 2021 by the Department for Business, Energy and Industrial Strategy published on 1 September 2020.

After checking UKCA marking, it was found that

	Toy	Packaging
UKCA marking	Absent	Absent

11 Flammability Test

As per European Standard on Safety of Toys BS 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



Test Report

Number: GZHH00399484

Tests Conducted

12 Flammability Test

Test Standard : European Standard on Safety of Toys BS EN 71 - 2: 2020

Clause	Testing items	Assessment
4.1	General requirements	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

Abbreviation : P = Pass

NA = Not applicable

13 19 Toxic Element Migration Test

(A) Test Result

As per BS EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography with UV-VIS.

Category (III): Scraped-off toy material

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(2)	(19)		
Aluminium (Al)	874	ND	300	70000 / 28130 [▲]
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	0.053
Cobalt (Co)	ND	ND	10	130
Copper (Cu)	ND	10	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



Test Report

Number: GZHH00399484

Tests Conducted

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(1), (3)to(18), (20), (21)			
Aluminum (Al)	ND		300	70000 / 28130 [▲]
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
Zinc (Zn)	ND		100	46000

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 Aluminium migration limit were quoted from Directive (EU) 2019/1922 amending Directive 2009/48/EC applicable from 20 May 2021.

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Black coating on plastic (pattern of #14171) (sample weight: 43.1mg).
SN2	(2)	Coatings (white, red, black, silver color) on plastic (head, taillight of car, button, steering wheel of remote control of #82181) (sample weight: 53.2mg).
SN3	(3)	Black 60 °PVC plastic (tire of #82181).
SN4	(4)	Orange plastic (body of #14171).
SN5	(5)	White adhesive plastic with inaccessible coatings (sticker of #14171).
SN6	(6)	Black plastic (lid, paddle blade of boat of #14171).
SN7	(7)	Red plastic (button of remote control of #14171).



Test Report

Number: GZHH00399484

Tests Conducted

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN8	(8)	Grey plastic (body of remote control of #14171).
SN9	(9)	Matte black plastic (body of remote control of #82181).
SN10	(10)	Black plastic (switch of remote control of #82181).
SN11	(11)	Light silver color plastic (rim, truck of #82181).
SN12	(12)	Dark yellow plastic (head of #82181).
SN13	(13)	Bright black plastic (window of #82181).
SN14	(14)	Beige plastic (adjustment of classis, bridge of wheel of #82181).
SN15	(15)	Black plastic (switch of #82181).
SN16	(16)	Black soft plastic (lid of #14171).
SN17	(17)	Black plastic (tube of antenna of remote control of both styles).
SN18	(18)	Black plastic (tip of antenna of remote control of both styles).
SN19	(19)	Black PVC plastic (antenna of both styles).
SN20	(20)	Transparent adhesive plastic with inaccessible coatings (mirror of #82181) (sample weight: 34.1mg).
SN21	(21)	White adhesive paper with multicolor printings (sticker of remote control of #14171, #82181) (sample weight: 93.3mg).

(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).



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Tests Conducted

14 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+4+5), (6+7+8), (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), (47)to(53)	
Cadmium (Cd)	ND	0.0005

Limit:

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

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217, Annex XVII Entry 23 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended, on Cadmium Content.

ND = Not detected (less than reporting limit)

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Black coating on plastic (pattern of #14171).
SN2	(2)	Coatings (white, red, black, silver color) on plastic (head, taillight of car, button, steering wheel of remote control of #82181).
SN3	(3)	Black 60 °PVC plastic (tire of #82181).
SN4	(4)	Orange plastic (body of #14171).
SN5	(5)	White adhesive plastic with inaccessible coatings (sticker of #14171).
SN6	(6)	Black plastic (lid, paddle blade of boat of #14171).
SN7	(7)	Red plastic (button of remote control of #14171).
SN8	(8)	Grey plastic (body of remote control of #14171).
SN9	(9)	Matte black plastic (body of remote control of #82181).
SN10	(10)	Black plastic (switch of remote control of #82181).
SN11	(11)	Light silver color plastic (rim, truck of #82181).
SN12	(12)	Dark yellow plastic (head of #82181).
SN13	(13)	Bright black plastic (window of #82181).
SN14	(14)	Beige plastic (adjustment of classis, bridge of wheel of #82181).
SN15	(15)	Black plastic (switch of #82181).



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Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN16	(16)	Black soft plastic (lid of #14171).
SN17	(17)	Black plastic (tube of antenna of remote control of both styles).
SN18	(18)	Black plastic (tip of antenna of remote control of both styles).
SN19	(19)	Black PVC plastic (antenna of both styles).
SN20	(20)	Transparent adhesive plastic with inaccessible coatings (mirror of #82181).
SN21	(21)	White adhesive paper with multicolor printings (sticker of remote control of #14171, #82181).
SN22	(22)	Black/dark red PVC plastic with white printing (wire covering of boat of #14171) (internal).
SN23	(23)	Black/brown PVC plastic with white printing (wire covering of boat of #14171) (internal).
SN24	(24)	Orange PVC plastic with black printing (wire covering of boat of #14171) (internal).
SN25	(25)	Red PVC plastic (wire covering of remote control of #82181) (internal).
SN26	(26)	Black PVC plastic (wire covering of remote control of #82181) (internal).
SN27	(27)	Transparent PVC plastic (wire covering of remote control of #82181) (internal).
SN28	(28)	Transparent PVC plastic (wire covering of car of #82181) (internal).
SN29	(29)	Black PVC plastic with white printing (wire covering of car of #82181) (internal).
SN30	(30)	Green PVC plastic with white printing (wire covering of car of #82181) (internal).
SN31	(31)	White PVC plastic with black printing (wire covering of car of #82181) (internal).
SN32	(32)	Blue PVC plastic (wire covering of car of #82181) (internal).
SN33	(33)	Transparent black plastic (fixture of motor of boat of #14171) (internal).
SN34	(34)	Black soft plastic (seal of boat of #14171) (internal).
SN35	(35)	Transparent soft plastic (tube of axel of boat of #14171) (internal).
SN36	(36)	Green plastic with gold color printing (capacitor of boat of #14171) (internal).
SN37	(37)	Black plastic (base of capacitor of boat of #14171) (internal).
SN38	(38)	Brown plastic (inductor of boat of #14171) (internal).
SN39	(39)	Beige plastic (lid of motor of boat of #14171) (internal).
SN40	(40)	Black plastic (contact switch of remote control of #82181) (internal).
SN41	(41)	Black plastic (button of PCB of remote control of #82181) (internal).
SN42	(42)	Brown plastic (PCB of switch of remote control of #82181) (internal).
SN43	(43)	Green plastic with multicolor printings (inductor of remote control of #14171, car of #82181) (internal).



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Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN44	(44)	Beige plastic (lid of motor of car of #82181) (internal).
SN45	(45)	Semi-transparent beige plastic (small lid of motor of #82181) (internal).
SN46	(46)	Brown plastic (PCB of switch of car of #82181) (internal).
SN47	(47)	Copper color PCB (PCB of motor) (internal).
SN48	(48)	Dark yellow soft material (fastener of inner body of boat of #14171) (internal).
SN49	(49)	Plastic part of motor (motor of boat of #14171) (internal).
SN50	(50)	Green/brown PCB with plastic part (PCB of boat of #14171) (internal).
SN51	(51)	Green/brown PCB with plastic part (PCB of remote control of #82181) (internal).
SN52	(52)	Green/brown PCB with plastic part (PCB of remote control of #14171) (internal).
SN53	(53)	Green/brown PCB with plastic part (PCB of car of #82181) (internal).

15 Phthalate Content

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

For 4 phthalates

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested Component (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), (47)to(53)		
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



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Tests Conducted

For 7 phthalates

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested Component (1+2), (3), (4+5+6), (7+8+9), (10+11+12), (13+14+15), (16+17+18), (19+20), (21)		
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	ND	0.005	--
Di-n-octyl phthalate(DNOP)	117-84-0	ND	0.005	--
Di-iso-decyl phthalate (DIDP)	26761-40-0	ND	0.005	--
Sum of DINP, DNOP and DIDP	--	ND	--	0.1

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009 and (EU) 2018/2005, Annex XVII Entry 51 & 52 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended, on Phthalate Content.

ND = Not detected (less than reporting limit)

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Black coating on plastic (pattern of #14171).
SN2	(2)	Coatings (white, red, black, silver color) on plastic (head, taillight of car, button, steering wheel of remote control of #82181).
SN3	(3)	Black 60 °PVC plastic (tire of #82181).
SN4	(4)	Orange plastic (body of #14171).
SN5	(5)	White adhesive plastic with inaccessible coatings (sticker of #14171).
SN6	(6)	Black plastic (lid, paddle blade of boat of #14171).
SN7	(7)	Red plastic (button of remote control of #14171).
SN8	(8)	Grey plastic (body of remote control of #14171).
SN9	(9)	Matte black plastic (body of remote control of #82181).
SN10	(10)	Black plastic (switch of remote control of #82181).
SN11	(11)	Light silver color plastic (rim, truck of #82181).
SN12	(12)	Dark yellow plastic (head of #82181).
SN13	(13)	Bright black plastic (window of #82181).
SN14	(14)	Beige plastic (adjustment of classis, bridge of wheel of #82181).
SN15	(15)	Black plastic (switch of #82181).



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Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN16	(16)	Black soft plastic (lid of #14171).
SN17	(17)	Black plastic (tube of antenna of remote control of both styles).
SN18	(18)	Black plastic (tip of antenna of remote control of both styles).
SN19	(19)	Black PVC plastic (antenna of both styles).
SN20	(20)	Transparent adhesive plastic with inaccessible coatings (mirror of #82181).
SN21	(21)	White adhesive paper with multicolor printings (sticker of remote control of #14171, #82181).
SN22	(22)	Black/dark red PVC plastic with white printing (wire covering of boat of #14171) (internal).
SN23	(23)	Black/brown PVC plastic with white printing (wire covering of boat of #14171) (internal).
SN24	(24)	Orange PVC plastic with black printing (wire covering of boat of #14171) (internal).
SN25	(25)	Red PVC plastic (wire covering of remote control of #82181) (internal).
SN26	(26)	Black PVC plastic (wire covering of remote control of #82181) (internal).
SN27	(27)	Transparent PVC plastic (wire covering of remote control of #82181) (internal).
SN28	(28)	Transparent PVC plastic (wire covering of car of #82181) (internal).
SN29	(29)	Black PVC plastic with white printing (wire covering of car of #82181) (internal).
SN30	(30)	Green PVC plastic with white printing (wire covering of car of #82181) (internal).
SN31	(31)	White PVC plastic with black printing (wire covering of car of #82181) (internal).
SN32	(32)	Blue PVC plastic (wire covering of car of #82181) (internal).
SN33	(33)	Transparent black plastic (fixture of motor of boat of #14171) (internal).
SN34	(34)	Black soft plastic (seal of boat of #14171) (internal).
SN35	(35)	Transparent soft plastic (tube of axel of boat of #14171) (internal).
SN36	(36)	Green plastic with gold color printing (capacitor of boat of #14171) (internal).
SN37	(37)	Black plastic (base of capacitor of boat of #14171) (internal).
SN38	(38)	Brown plastic (inductor of boat of #14171) (internal).
SN39	(39)	Beige plastic (lid of motor of boat of #14171) (internal).
SN40	(40)	Black plastic (contact switch of remote control of #82181) (internal).
SN41	(41)	Black plastic (button of PCB of remote control of #82181) (internal).
SN42	(42)	Brown plastic (PCB of switch of remote control of #82181) (internal).
SN43	(43)	Green plastic with multicolor printings (inductor of remote control of #14171, car of #82181) (internal).



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Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN44	(44)	Beige plastic (lid of motor of car of #82181) (internal).
SN45	(45)	Semi-transparent beige plastic (small lid of motor of #82181) (internal).
SN46	(46)	Brown plastic (PCB of switch of car of #82181) (internal).
SN47	(47)	Copper color PCB (PCB of motor) (internal).
SN48	(48)	Dark yellow soft material (fastener of inner body of boat of #14171) (internal).
SN49	(49)	Plastic part of motor (motor of boat of #14171) (internal).
SN50	(50)	Green/brown PCB with plastic part (PCB of boat of #14171) (internal).
SN51	(51)	Green/brown PCB with plastic part (PCB of remote control of #82181) (internal).
SN52	(52)	Green/brown PCB with plastic part (PCB of remote control of #14171) (internal).
SN53	(53)	Green/brown PCB with plastic part (PCB of car of #82181) (internal).

16 Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2019:01 PAK (PAH), PAHs content was determined by Gas Chromatography-Mass Spectrometry (GC-MS).

Compound	CAS No.	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
		Tested Component (1+2), (3+4), (5+6), (7+8), (9+10), (11+12), (13+14), (15+16), (17+18), (19), (21)		
Benzo[a]anthracene	56-55-3	ND	0.2	0.5
Chrysene	218-01-9	ND	0.2	0.5
Benzo[b]fluoranthene	205-99-2	ND	0.2	0.5
Benzo[k]fluoranthene	207-08-9	ND	0.2	0.5
Benzo[a]pyrene	50-32-8	ND	0.2	0.5
Dibenzo[a,h]anthracene	53-70-3	ND	0.2	0.5
Benzo[j]fluoranthene	205-82-3	ND	0.2	0.5
Benzo[e]pyrene	192-97-2	ND	0.2	0.5

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009 and (EU) No 1272/2013, Annex XVII Entry 50 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended, on Polycyclic Aromatic Hydrocarbons (PAHs) Content.

ND = Not detected (less than reporting limit)



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Number: GZHH00399484

Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Black coating on plastic (pattern of #14171).
SN2	(2)	Coatings (white, red, black, silver color) on plastic (head, taillight of car, button, steering wheel of remote control of #82181).
SN3	(3)	Black 60 °PVC plastic (tire of #82181).
SN4	(4)	Orange plastic (body of #14171).
SN5	(5)	White adhesive plastic with inaccessible coatings (sticker of #14171).
SN6	(6)	Black plastic (lid, paddle blade of boat of #14171).
SN7	(7)	Red plastic (button of remote control of #14171).
SN8	(8)	Grey plastic (body of remote control of #14171).
SN9	(9)	Matte black plastic (body of remote control of #82181).
SN10	(10)	Black plastic (switch of remote control of #82181).
SN11	(11)	Light silver color plastic (rim, truck of #82181).
SN12	(12)	Dark yellow plastic (head of #82181).
SN13	(13)	Bright black plastic (window of #82181).
SN14	(14)	Beige plastic (adjustment of classis, bridge of wheel of #82181).
SN15	(15)	Black plastic (switch of #82181).
SN16	(16)	Black soft plastic (lid of #14171).
SN17	(17)	Black plastic (tube of antenna of remote control of both styles).
SN18	(18)	Black plastic (tip of antenna of remote control of both styles).
SN19	(19)	Black PVC plastic (antenna of both styles).
SN20	(21)	White adhesive paper with multicolor printings (sticker of remote control of #14171, #82181).



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End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

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