

Test Report

Number: GZHH00390031

Applicant: BBURAGO INTERNATIONAL LIMITED
UNIT 901-2, 9/F., EAST OCEAN CENTRE,
98 GRANVILLE ROAD, TSIMSHATSUI EAST,
KOWLOON, HONG KONG

Date: Dec 30, 2020

Attn: ICY HUANG

Sample Description:

Seven (7) styles of submitted sample said to be :

No.	Item	Description	Color
1	18-30136	1:43 Nissan JUKE-R	Red
2	18-30299	1:43 Porsche Macan	White
3	18-30400	1:43 McLaren Speedtail	Metallic Orange
4	18-30424	1:43 Fiat 124 Spider	Red
5	18-30192	1:43 Alfa Brera	Red
6	18-31631	10cm Fendt 1050 Vario with front loader	Green
7	18-32085	1:53 Volvo A25G Articulated Hauler	Yellow/Grey/Black

Labelled Age Group : 3+, Ages 3+
Applicant Specified Age : Over 3 years
Grading for Testing
Appropriate Age Grade for : Over 3 years
Testing
Packaging Provided by : Yes
Applicant
Country of Origin : China
Date Sample Received : Dec 15, 2020 & Dec 18, 2020
Testing Period : Dec 15, 2020 ~ Dec 29, 2020

Tests conducted:

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

Conclusion:

Tested sample	Standard	Result
Submitted sample(s)	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(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
	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

To be continued



Test Report

Number: GZHH00390031

Conclusion:

Tested sample Tested component(s) of submitted sample(s)	Test Item	Result
	Phthalates Content	See Test Conducted 6#
	Standard 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
Submitted sample(s)	BS EN71-1:2014+A1:2018 for mechanical and physical properties	Pass
	BS EN71-2:2011+A1:2014 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:




Parco Leung
Technical Assistant Manager

Approved:



Crystal Huang
Technical Support Assistant Manager



Test Report

Number: GZHH00390031

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
5.3	Plastic sheeting	NA



Test Report

Number: GZHH00390031

Tests Conducted

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	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



Test Report

Number: GZHH00390031

Tests Conducted

Remark: P = Pass NA = Not Applicable

= 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	Absent	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



Test Report

Number: GZHH00390031

Tests Conducted

3 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					
	(1)	(2)	(4)	(6)		
Aluminium (Al)	1713	2820	1334	902	300	70000 / 28130 [▲]
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) [#]	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	0.025	0.053
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)	ND	ND	ND	ND	2.5	180000
Organic tin ^{**}	ND	ND	ND	ND	5	12
Zinc (Zn)	146	9768	8909	6942	100	46000



Test Report

Number: GZHH00390031

Tests Conducted

Element	Result (mg/kg)					Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component						
	(8)	(10)	(12)	(13)	(14)		
Aluminium (Al)	1989	25073	2361	897	2030	300	70000 / 28130 [▲]
Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) [#]	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	2.5	180000
Organic tin ^{**}	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	10255	9428	10970	248	9965	100	46000

Element	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(3), (22)to(29)		
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



Test Report

Number: GZHH00390031

Tests Conducted

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)	Coatings (dull green, white, chocolate, flesh color, red, grey, silver color) on plastic (surface of window, top, seat, splash guard, light of #18-31631) (sample weight : 67.8mg).
SN2	(2)	Coatings (dull green, grey, white, red) on metal (surface of head, handle of blade of #18-31631).
SN3	(3)	Coatings (grey, white, silver color, black) on plastic (surface of bonnet, dump body, logo, windscreen wiper of #18-32085)(sample weight : 30.8mg).
SN4	(4)	Coatings (yellow, orange, grey, white, black) on metal (surface of head of #18-32085)(sample weight : 98.6mg).
SN5	(5) @	Coatings (black, bright silver color) on plastic (surface of windshield, windows, skylight, wheel, headlight of #18-30299).
SN6	(6)	Coatings (white, black, gold color, red, silver color) on metal (surface of body, logo, tail of #18-30299).
SN7	(7) @	Coatings (black, bright silver color, grey, gold color, blue, red, white) on plastic (surface of windshield, skylight, windows, logo, taillight of #18-30192).
SN8	(8)	Coatings (wine red, silver color, black, blue, red, white) on metal (surface of body, tail logo of #18-30192).
SN9	(9) @	Coatings (black, red, silver color, bright silver color) on plastic (surface of window, number plate, exhaust pipe, wheel of #18-30400).
SN10	(10)	Coatings (metallic orange, silver color, black, white) on metal (surface of body, logo of #18-30400).
SN11	(11) @	Coatings (silver color, black, white, red, bright silver color) on plastic (surface of windshield, wheel, steering wheel of #18-30424).
SN12	(12)	Coatings (dark red, silver color, black) on metal (surface of body, logo, number plate of #18-30424).
SN13	(13)	Coatings (black, red, white) on plastic (surface of windshield, window, bumper, tail of #18-30136)(sample weight : 35.6mg).
SN14	(14)	Coatings (red, black, silver color, white) on metal (surface of body, logo, headlight, number plate of #18-30136).
SN15	(22)	Transparent plastic (windows of #18-31631, #18-32085, windows, headlight of #18-30299, windows, skylight, windshield, taillight, headlight of #18-30192, windows of #18-30400, windshield, headlight of #18-30424, windshield, window, headlight of #18-30136).



Test Report

Number: GZHH00390031

Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN16	(23)	Black plastic excluding coating (top, light, seat, chassis of #18-31631, bonnet, seat, holder of dump body, behind of head of #18-32085, seat, chassis, wheel of #18-30299, seat, chassis, wheel, logo, number plate of #18-30192, chassis, wheel, seat of #18-30400, seat, wheel, chassis of #18-30424, seat, chassis, wheel, tail, bumper of #18-30136).
SN17	(24)	Green plastic (blade of #18-31631).
SN18	(25)	Red plastic (wheel of #18-31631).
SN19	(26)	Yellow plastic (dump body, chassis, wheel of #18-32085).
SN20	(27)	Transparent red plastic (taillight of #18-30299).
SN21	(28)	Black 70° PVC plastic (tire of #18-31631).
SN22	(29)	Black 60° PVC plastic (tire of #18-32085).
SN23	(30) @	White paper label with transparent plastic film and inaccessible coatings (number plate of #18-30192).

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

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

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

Category II: Liquid or sticky

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

Category III: Scraped-off

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



Test Report

Number: GZHH00390031

Tests Conducted

4 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)to(4), (5/6), (7/8), (9/10), (11/12), (13), (14), (22+23+24), (25+26+27), (28+29), (30), (31)	
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)

The Cadmium content test of the tested components (5)to(12) were conducted in composite for the materials which sample size is not sufficient to carry out the test individually.

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Coatings (dull green, white, chocolate, flesh color, red, grey, silver color) on plastic (surface of window, top, seat, splash guard, light of #18-31631).
SN2	(2)	Coatings (dull green, grey, white, red) on metal (surface of head, handle of blade of #18-31631).
SN3	(3)	Coatings (grey, white, silver color, black) on plastic (surface of bonnet, dump body, logo, windscreen wiper of #18-32085).
SN4	(4)	Coatings (yellow, orange, grey, white, black) on metal (surface of head of #18-32085).
SN5	(5)	Coatings (black, bright silver color) on plastic (surface of windshield, windows, skylight, wheel, headlight of #18-30299).
SN6	(6)	Coatings (white, black, gold color, red, silver color) on metal (surface of body, logo, tail of #18-30299).
SN7	(7)	Coatings (black, bright silver color, grey, gold color, blue, red, white) on plastic (surface of windshield, skylight, windows, logo, taillight of #18-30192).
SN8	(8)	Coatings (wine red, silver color, black, blue, red, white) on metal (surface of body, tail logo of #18-30192).



Test Report

Number: GZHH00390031

Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN9	(9)	Coatings (black, red, silver color, bright silver color) on plastic (surface of window, number plate, exhaust pipe, wheel of #18-30400).
SN10	(10)	Coatings (metallic orange, silver color, black, white) on metal (surface of body, logo of #18-30400).
SN11	(11)	Coatings (silver color, black, white, red, bright silver color) on plastic (surface of windshield, wheel, steering wheel of #18-30424).
SN12	(12)	Coatings (dark red, silver color, black) on metal (surface of body, logo, number plate of #18-30424).
SN13	(13)	Coatings (black, red, white) on plastic (surface of windshield, window, bumper, tail of #18-30136).
SN14	(14)	Coatings (red, black, silver color, white) on metal (surface of body, logo, headlight, number plate of #18-30136).
SN15	(22)	Transparent plastic (windows of #18-31631, #18-32085, windows, headlight of #18-30299, windows, skylight, windshield, taillight, headlight of #18-30192, windows of #18-30400, windshield, headlight of #18-30424, windshield, window, headlight of #18-30136).
SN16	(23)	Black plastic excluding coating (top, light, seat, chassis of #18-31631, bonnet, seat, holder of dump body, behind of head of #18-32085, seat, chassis, wheel of #18-30299, seat, chassis, wheel, logo, number plate of #18-30192, chassis, wheel, seat of #18-30400, seat, wheel, chassis of #18-30424, seat, chassis, wheel, tail, bumper of #18-30136).
SN17	(24)	Green plastic (blade of #18-31631).
SN18	(25)	Red plastic (wheel of #18-31631).
SN19	(26)	Yellow plastic (dump body, chassis, wheel of #18-32085).
SN20	(27)	Transparent red plastic (taillight of #18-30299).
SN21	(28)	Black 70° PVC plastic (tire of #18-31631).
SN22	(29)	Black 60° PVC plastic (tire of #18-32085).
SN23	(30)	White paper label with transparent plastic film and inaccessible coatings (number plate of #18-30192).
SN24	(31)	White plastic (gear of #18-31631) (internal).



Test Report

Number: GZHH00390031

Tests Conducted

5 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 (31)		
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 phthalates

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested Component (15+16+17), (18+19), (20+21), (22+23+24), (25+26+27), (28+29), (30)		
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)



Test Report

Number: GZHH00390031

Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(15)	Coatings (dull green, white, chocolate, flesh color, red, grey, silver color) on plastic/metal (surface of window, top, seat, splash guard, light, head, handle of blade of #18-31631).
SN2	(16)	Coatings (grey, white, silver color, black, yellow, orange) on plastic/metal (surface of bonnet, dump body, logo, windscreen wiper, head of #18-32085).
SN3	(17)	Coatings (black, bright silver color, white, gold color, red, silver color) on plastic/metal (surface of windshield, windows, skylight, wheel, headlight, body, logo, tail of #18-30299).
SN4	(18)	Coatings (black, bright silver color, grey, gold color, blue, red, white, wine red, silver color) on plastic/metal (surface of windshield, skylight, windows, logo, taillight, body, tail logo of #18-30192).
SN5	(19)	Coatings (black, red, silver color, bright silver color, metallic orange, white) on plastic/metal (surface of window, number plate, exhaust pipe, wheel, body, logo of #18-30400).
SN6	(20)	Coatings (silver color, black, white, red, bright silver color, dark red) on plastic/metal (surface of windshield, wheel, steering wheel, body, logo, number plate of #18-30424).
SN7	(21)	Coatings (black, red, white, silver color) on plastic/metal (surface of windshield, window, bumper, tail, body, logo, headlight, number plate of #18-30136).
SN8	(22)	Transparent plastic (windows of #18-31631, #18-32085, windows, headlight of #18-30299, windows, skylight, windshield, taillight, headlight of #18-30192, windows of #18-30400, windshield, headlight of #18-30424, windshield, window, headlight of #18-30136).
SN9	(23)	Black plastic excluding coating (top, light, seat, chassis of #18-31631, bonnet, seat, holder of dump body, behind of head of #18-32085, seat, chassis, wheel of #18-30299, seat, chassis, wheel, logo, number plate of #18-30192, chassis, wheel, seat of #18-30400, seat, wheel, chassis of #18-30424, seat, chassis, wheel, tail, bumper of #18-30136).
SN10	(24)	Green plastic (blade of #18-31631).
SN11	(25)	Red plastic (wheel of #18-31631).
SN12	(26)	Yellow plastic (dump body, chassis, wheel of #18-32085).
SN13	(27)	Transparent red plastic (taillight of #18-30299).
SN14	(28)	Black 70° PVC plastic (tire of #18-31631).
SN15	(29)	Black 60° PVC plastic (tire of #18-32085).
SN16	(30)	White paper label with transparent plastic film and inaccessible coatings (number plate of #18-30192).
SN17	(31)	White plastic (gear of #18-31631) (internal).



Test Report

Number: GZHH00390031

Tests Conducted

6 Phthalates Content

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

Test item	Result (%)		Reporting limit (%)
	Tested component		
	(15+16+17), (18+19), (20+21), (22+23+24), (25+26+27), (28+29), (30), (31)		
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	(15)	Coatings (dull green, white, chocolate, flesh color, red, grey, silver color) on plastic/metal (surface of window, top, seat, splash guard, light, head, handle of blade of #18-31631).
SN2	(16)	Coatings (grey, white, silver color, black, yellow, orange) on plastic/metal (surface of bonnet, dump body, logo, windscreen wiper, head of #18-32085).
SN3	(17)	Coatings (black, bright silver color, white, gold color, red, silver color) on plastic/metal (surface of windshield, windows, skylight, wheel, headlight, body, logo, tail of #18-30299).
SN4	(18)	Coatings (black, bright silver color, grey, gold color, blue, red, white, wine red, silver color) on plastic/metal (surface of windshield, skylight, windows, logo, taillight, body, tail logo of #18-30192).
SN5	(19)	Coatings (black, red, silver color, bright silver color, metallic orange, white) on plastic/metal (surface of window, number plate, exhaust pipe, wheel, body, logo of #18-30400).
SN6	(20)	Coatings (silver color, black, white, red, bright silver color, dark red) on plastic/metal (surface of windshield, wheel, steering wheel, body, logo, number plate of #18-30424).
SN7	(21)	Coatings (black, red, white, silver color) on plastic/metal (surface of windshield, window, bumper, tail, body, logo, headlight, number plate of #18-30136).
SN8	(22)	Transparent plastic (windows of #18-31631, #18-32085, windows, headlight of #18-30299, windows, skylight, windshield, taillight, headlight of #18-30192, windows of #18-30400, windshield, headlight of #18-30424, windshield, window, headlight of #18-30136).
SN9	(23)	Black plastic excluding coating (top, light, seat, chassis of #18-31631, bonnet, seat, holder of dump body, behind of head of #18-32085, seat, chassis, wheel of #18-30299, seat, chassis, wheel, logo, number plate of #18-30192, chassis, wheel, seat of #18-30400, seat, wheel, chassis of #18-30424, seat, chassis, wheel, tail, bumper of #18-30136).



Test Report

Number: GZHH00390031

Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN10	(24)	Green plastic (blade of #18-31631).
SN11	(25)	Red plastic (wheel of #18-31631).
SN12	(26)	Yellow plastic (dump body, chassis, wheel of #18-32085).
SN13	(27)	Transparent red plastic (taillight of #18-30299).
SN14	(28)	Black 70° PVC plastic (tire of #18-31631).
SN15	(29)	Black 60° PVC plastic (tire of #18-32085).
SN16	(30)	White paper label with transparent plastic film and inaccessible coatings (number plate of #18-30192).
SN17	(31)	White plastic (gear of #18-31631) (internal).

7 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), (4+6), (8+10), (12+14), (22+23), (24+25), (26+27), (28+29)		
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)

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Coatings (dull green, white, chocolate, flesh color, red, grey, silver color) on plastic (surface of window, top, seat, splash guard, light of #18-31631).
SN2	(2)	Coatings (dull green, grey, white, red) on metal (surface of head, handle of blade of #18-31631).
SN3	(4)	Coatings (yellow, orange, grey, white, black) on metal (surface of head of #18-32085).
SN4	(6)	Coatings (white, black, gold color, red, silver color) on metal (surface of body, logo, tail of #18-30299).
SN5	(8)	Coatings (wine red, silver color, black, blue, red, white) on metal (surface of body, tail logo of #18-30192).



Test Report

Number: GZHH00390031

Tests Conducted

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN6	(10)	Coatings (metallic orange, silver color, black, white) on metal (surface of body, logo of #18-30400).
SN7	(12)	Coatings (dark red, silver color, black) on metal (surface of body, logo, number plate of #18-30424).
SN8	(14)	Coatings (red, black, silver color, white) on metal (surface of body, logo, headlight, number plate of #18-30136).
SN9	(22)	Transparent plastic (windows of #18-31631, #18-32085, windows, headlight of #18-30299, windows, skylight, windshield, taillight, headlight of #18-30192, windows of #18-30400, windshield, headlight of #18-30424, windshield, window, headlight of #18-30136).
SN10	(23)	Black plastic excluding coating (top, light, seat, chassis of #18-31631, bonnet, seat, holder of dump body, behind of head of #18-32085, seat, chassis, wheel of #18-30299, seat, chassis, wheel, logo, number plate of #18-30192, chassis, wheel, seat of #18-30400, seat, wheel, chassis of #18-30424, seat, chassis, wheel, tail, bumper of #18-30136).
SN11	(24)	Green plastic (blade of #18-31631).
SN12	(25)	Red plastic (wheel of #18-31631).
SN13	(26)	Yellow plastic (dump body, chassis, wheel of #18-32085).
SN14	(27)	Transparent red plastic (taillight of #18-30299).
SN15	(28)	Black 70° PVC plastic (tire of #18-31631).
SN16	(29)	Black 60° PVC plastic (tire of #18-32085).

8 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:		
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



Test Report

Number: GZHH00390031

Tests Conducted

Clause	Testing Items	Assessment
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
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA



Test Report

Number: GZHH00390031

Tests Conducted

Clause	Testing Items	Assessment
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 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 BS 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	Absent	Present In correct format



Test Report

Number: GZHH00390031

Tests Conducted

Below is additional information checking according to the UK Toy (Safety) Regulations requirement. The checking is not within accreditation scope.

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
Manufacturer's name	Present	Present
Manufacturer's address	Absent	Present
UK Importer's name	Absent	Absent
UK Importer's address	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

9 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: GZHH00390031

Tests Conducted

10 19 Toxic Element Migration Test

(A) Test Result

As per BS 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					
	(1)	(2)	(4)	(6)		
Aluminium (Al)	1713	2820	1334	902	300	70000 / 28130 [▲]
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND	ND	ND	ND	0.025	0.053
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)	ND	ND	ND	ND	2.5	180000
Organic tin **	ND	ND	ND	ND	2.0	12
Zinc (Zn)	146	9768	8909	6942	100	46000



Test Report

Number: GZHH00390031

Tests Conducted

Element	Result (mg/kg)					Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component						
	(8)	(10)	(12)	(13)	(14)		
Aluminum (Al)	1989	25073	2361	897	2030	300	70000 / 28130 [▲]
Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	2.5	180000
Organic tin **	ND	ND	ND	ND	ND	2.0	12
Zinc (Zn)	10255	9428	10970	248	9965	100	46000

Element	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(3), (22)to(29)		
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



Test Report

Number: GZHH00390031

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 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)	Coatings (dull green, white, chocolate, flesh color, red, grey, silver color) on plastic (surface of window, top, seat, splash guard, light of #18-31631) (sample weight : 67.8mg).
SN2	(2)	Coatings (dull green, grey, white, red) on metal (surface of head, handle of blade of #18-31631).
SN3	(3)	Coatings (grey, white, silver color, black) on plastic (surface of bonnet, dump body, logo, windscreen wiper of #18-32085)(sample weight : 30.8mg).
SN4	(4)	Coatings (yellow, orange, grey, white, black) on metal (surface of head of #18-32085)(sample weight : 98.6mg).
SN5	(5) @	Coatings (black, bright silver color) on plastic (surface of windshield, windows, skylight, wheel, headlight of #18-30299).
SN6	(6)	Coatings (white, black, gold color, red, silver color) on metal (surface of body, logo, tail of #18-30299).
SN7	(7) @	Coatings (black, bright silver color, grey, gold color, blue, red, white) on plastic (surface of windshield, skylight, windows, logo, taillight of #18-30192).
SN8	(8)	Coatings (wine red, silver color, black, blue, red, white) on metal (surface of body, tail logo of #18-30192).
SN9	(9) @	Coatings (black, red, silver color, bright silver color) on plastic (surface of window, number plate, exhaust pipe, wheel of #18-30400).
SN10	(10)	Coatings (metallic orange, silver color, black, white) on metal (surface of body, logo of #18-30400).
SN11	(11) @	Coatings (silver color, black, white, red, bright silver color) on plastic (surface of windshield, wheel, steering wheel of #18-30424).
SN12	(12)	Coatings (dark red, silver color, black) on metal (surface of body, logo, number plate of #18-30424).
SN13	(13)	Coatings (black, red, white) on plastic (surface of windshield, window, bumper, tail of #18-30136)(sample weight : 35.6mg).
SN14	(14)	Coatings (red, black, silver color, white) on metal (surface of body, logo, headlight, number plate of #18-30136).
SN15	(22)	Transparent plastic (windows of #18-31631, #18-32085, windows, headlight of #18-30299, windows, skylight, windshield, taillight, headlight of #18-30192, windows of #18-30400, windshield, headlight of #18-30424, windshield, window, headlight of #18-30136).



Test Report

Number: GZHH00390031

Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN16	(23)	Black plastic excluding coating (top, light, seat, chassis of #18-31631, bonnet, seat, holder of dump body, behind of head of #18-32085, seat, chassis, wheel of #18-30299, seat, chassis, wheel, logo, number plate of #18-30192, chassis, wheel, seat of #18-30400, seat, wheel, chassis of #18-30424, seat, chassis, wheel, tail, bumper of #18-30136).
SN17	(24)	Green plastic (blade of #18-31631).
SN18	(25)	Red plastic (wheel of #18-31631).
SN19	(26)	Yellow plastic (dump body, chassis, wheel of #18-32085).
SN20	(27)	Transparent red plastic (taillight of #18-30299).
SN21	(28)	Black 70° PVC plastic (tire of #18-31631).
SN22	(29)	Black 60° PVC plastic (tire of #18-32085).
SN23	(30) @	White paper label with transparent plastic film and inaccessible coatings (number plate of #18-30192).

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

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

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

Category II: Liquid or sticky

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

Category III: Scraped-off

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



Test Report

Number: GZHH00390031

Tests Conducted

11 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)to(4), (5/6), (7/8), (9/10), (11/12), (13), (14), (22+23+24), (25+26+27), (28+29), (30), (31)	
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)

The Cadmium content test of the tested components (5)to(12) were conducted in composite for the materials which sample size is not sufficient to carry out the test individually.

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Coatings (dull green, white, chocolate, flesh color, red, grey, silver color) on plastic (surface of window, top, seat, splash guard, light of #18-31631).
SN2	(2)	Coatings (dull green, grey, white, red) on metal (surface of head, handle of blade of #18-31631).
SN3	(3)	Coatings (grey, white, silver color, black) on plastic (surface of bonnet, dump body, logo, windscreen wiper of #18-32085).
SN4	(4)	Coatings (yellow, orange, grey, white, black) on metal (surface of head of #18-32085).
SN5	(5)	Coatings (black, bright silver color) on plastic (surface of windshield, windows, skylight, wheel, headlight of #18-30299).
SN6	(6)	Coatings (white, black, gold color, red, silver color) on metal (surface of body, logo, tail of #18-30299).
SN7	(7)	Coatings (black, bright silver color, grey, gold color, blue, red, white) on plastic (surface of windshield, skylight, windows, logo, taillight of #18-30192).
SN8	(8)	Coatings (wine red, silver color, black, blue, red, white) on metal (surface of body, tail logo of #18-30192).



Test Report

Number: GZHH00390031

Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN9	(9)	Coatings (black, red, silver color, bright silver color) on plastic (surface of window, number plate, exhaust pipe, wheel of #18-30400).
SN10	(10)	Coatings (metallic orange, silver color, black, white) on metal (surface of body, logo of #18-30400).
SN11	(11)	Coatings (silver color, black, white, red, bright silver color) on plastic (surface of windshield, wheel, steering wheel of #18-30424).
SN12	(12)	Coatings (dark red, silver color, black) on metal (surface of body, logo, number plate of #18-30424).
SN13	(13)	Coatings (black, red, white) on plastic (surface of windshield, window, bumper, tail of #18-30136).
SN14	(14)	Coatings (red, black, silver color, white) on metal (surface of body, logo, headlight, number plate of #18-30136).
SN15	(22)	Transparent plastic (windows of #18-31631, #18-32085, windows, headlight of #18-30299, windows, skylight, windshield, taillight, headlight of #18-30192, windows of #18-30400, windshield, headlight of #18-30424, windshield, window, headlight of #18-30136).
SN16	(23)	Black plastic excluding coating (top, light, seat, chassis of #18-31631, bonnet, seat, holder of dump body, behind of head of #18-32085, seat, chassis, wheel of #18-30299, seat, chassis, wheel, logo, number plate of #18-30192, chassis, wheel, seat of #18-30400, seat, wheel, chassis of #18-30424, seat, chassis, wheel, tail, bumper of #18-30136).
SN17	(24)	Green plastic (blade of #18-31631).
SN18	(25)	Red plastic (wheel of #18-31631).
SN19	(26)	Yellow plastic (dump body, chassis, wheel of #18-32085).
SN20	(27)	Transparent red plastic (taillight of #18-30299).
SN21	(28)	Black 70° PVC plastic (tire of #18-31631).
SN22	(29)	Black 60° PVC plastic (tire of #18-32085).
SN23	(30)	White paper label with transparent plastic film and inaccessible coatings (number plate of #18-30192).
SN24	(31)	White plastic (gear of #18-31631) (internal).



Test Report

Number: GZHH00390031

Tests Conducted

12 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 (31)		
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 phthalates

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested Component (15+16+17), (18+19), (20+21), (22+23+24), (25+26+27), (28+29), (30)		
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)



Test Report

Number: GZHH00390031

Tests Conducted

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(15)	Coatings (dull green, white, chocolate, flesh color, red, grey, silver color) on plastic/metal (surface of window, top, seat, splash guard, light, head, handle of blade of #18-31631).
SN2	(16)	Coatings (grey, white, silver color, black, yellow, orange) on plastic/metal (surface of bonnet, dump body, logo, windscreen wiper, head of #18-32085).
SN3	(17)	Coatings (black, bright silver color, white, gold color, red, silver color) on plastic/metal (surface of windshield, windows, skylight, wheel, headlight, body, logo, tail of #18-30299).
SN4	(18)	Coatings (black, bright silver color, grey, gold color, blue, red, white, wine red, silver color) on plastic/metal (surface of windshield, skylight, windows, logo, taillight, body, tail logo of #18-30192).
SN5	(19)	Coatings (black, red, silver color, bright silver color, metallic orange, white) on plastic/metal (surface of window, number plate, exhaust pipe, wheel, body, logo of #18-30400).
SN6	(20)	Coatings (silver color, black, white, red, bright silver color, dark red) on plastic/metal (surface of windshield, wheel, steering wheel, body, logo, number plate of #18-30424).
SN7	(21)	Coatings (black, red, white, silver color) on plastic/metal (surface of windshield, window, bumper, tail, body, logo, headlight, number plate of #18-30136).
SN8	(22)	Transparent plastic (windows of #18-31631, #18-32085, windows, headlight of #18-30299, windows, skylight, windshield, taillight, headlight of #18-30192, windows of #18-30400, windshield, headlight of #18-30424, windshield, window, headlight of #18-30136).
SN9	(23)	Black plastic excluding coating (top, light, seat, chassis of #18-31631, bonnet, seat, holder of dump body, behind of head of #18-32085, seat, chassis, wheel of #18-30299, seat, chassis, wheel, logo, number plate of #18-30192, chassis, wheel, seat of #18-30400, seat, wheel, chassis of #18-30424, seat, chassis, wheel, tail, bumper of #18-30136).
SN10	(24)	Green plastic (blade of #18-31631).
SN11	(25)	Red plastic (wheel of #18-31631).
SN12	(26)	Yellow plastic (dump body, chassis, wheel of #18-32085).
SN13	(27)	Transparent red plastic (taillight of #18-30299).
SN14	(28)	Black 70° PVC plastic (tire of #18-31631).
SN15	(29)	Black 60° PVC plastic (tire of #18-32085).
SN16	(30)	White paper label with transparent plastic film and inaccessible coatings (number plate of #18-30192).
SN17	(31)	White plastic (gear of #18-31631) (internal).



Test Report

Number: GZHH00390031

Tests Conducted

13 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), (4+6), (8+10), (12+14), (22+23), (24+25), (26+27), (28+29)		
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)

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Coatings (dull green, white, chocolate, flesh color, red, grey, silver color) on plastic (surface of window, top, seat, splash guard, light of #18-31631).
SN2	(2)	Coatings (dull green, grey, white, red) on metal (surface of head, handle of blade of #18-31631).
SN3	(4)	Coatings (yellow, orange, grey, white, black) on metal (surface of head of #18-32085).
SN4	(6)	Coatings (white, black, gold color, red, silver color) on metal (surface of body, logo, tail of #18-30299).
SN5	(8)	Coatings (wine red, silver color, black, blue, red, white) on metal (surface of body, tail logo of #18-30192).



Test Report

Number: GZHH00390031

Tests Conducted

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN6	(10)	Coatings (metallic orange, silver color, black, white) on metal (surface of body, logo of #18-30400).
SN7	(12)	Coatings (dark red, silver color, black) on metal (surface of body, logo, number plate of #18-30424).
SN8	(14)	Coatings (red, black, silver color, white) on metal (surface of body, logo, headlight, number plate of #18-30136).
SN9	(22)	Transparent plastic (windows of #18-31631, #18-32085, windows, headlight of #18-30299, windows, skylight, windshield, taillight, headlight of #18-30192, windows of #18-30400, windshield, headlight of #18-30424, windshield, window, headlight of #18-30136).
SN10	(23)	Black plastic excluding coating (top, light, seat, chassis of #18-31631, bonnet, seat, holder of dump body, behind of head of #18-32085, seat, chassis, wheel of #18-30299, seat, chassis, wheel, logo, number plate of #18-30192, chassis, wheel, seat of #18-30400, seat, wheel, chassis of #18-30424, seat, chassis, wheel, tail, bumper of #18-30136).
SN11	(24)	Green plastic (blade of #18-31631).
SN12	(25)	Red plastic (wheel of #18-31631).
SN13	(26)	Yellow plastic (dump body, chassis, wheel of #18-32085).
SN14	(27)	Transparent red plastic (taillight of #18-30299).
SN15	(28)	Black 70° PVC plastic (tire of #18-31631).
SN16	(29)	Black 60° PVC plastic (tire of #18-32085).



Test Report

Number: GZHH00390031

Tests Conducted

Applicant's Ref.	:	18-30000	1:43 Street Fire Collezione, Assorted
		18-30001	1:43 Street Fire Collezione, Assorted ~ Blister Card
		18-30002	1:43 Street Fire Collezione 2-pc, Assorted
		18-30004	3pk 1:43 Street Fire
		18-30005	1:43 Street Fire Collezione 5-pc, Assorted
		18-30006	1:43 Fiat Twin Pack
		18-30007	1:43 Street Fire (3 Pack)
		18-30009	1:43 Emergency 3pk
		18-30010	1:43 Street Fire Collezione, Assorted - 24 pcs per dispenser
		18-30012	1:43 Street Fire 12-Pk. Gift Set
		18-30018	1:43 Dodge Charger R/T Police ~ Close Box
		18-30021	8pk 1:43 Street Fire Collezione
		18-30022	1:43 Street Fire Lamborghini 4pk
		18-30024	1:43 Street Fire Collezione ~ Clam Shell
		18-30025	Bburago Parking Playset with 2 Car
		18-30025	1:43 Street Fire Parking Garage w/2 vehicles
		18-30027	1:43 Street Fire Collezione in Floor Display
		18-30031	1:43 Street Fire Mega Dealer Showroom
		18-30032	1:43 Street Fire Challenge Get Away Set
		18-30033	1:43 Street Fire 2 pack in red dispenser
		18-30038	Renault Auto Service Centre
		18-30039	Auto Service with 1 car
		18-30040	Parking Playset with 1 vehicle
		18-30042	Parking Playset without car in Top Toy closed box
		18-30043	1:43 Street Fire Collezione - Fire Station Playset
		18-30048	1:43 Street Fire Open & Play Sets, Asst
		18-30054	1:43 Citroen Auto Service Centre
		18-30058	1:43 Street Fire 5pk in no header box
		18-30065	Digi Town Interactive Playset - Auto Service
		18-30069	1:43 Street Fire Single loop Track Set
		18-30070	1:43 Street Fire Dual Loop Track Set
		18-30071	1:43 Street Fire Twin Loop Track Set
		18-30073	1:43 Street Fire Challenge Series - Racing 3
		18-30074	1/43 Emergency, asst
		18-30075	1:43 Emergency, Asst , 24 pcs in dispenser
		18-30077	1:43 Key Racers
		18-30078	1:43 Street Fire Challenge Series Twin Loop Set (w/4 vehicles)
		18-30080	1:43 Street Fire w/inner blister tray and 12 pcs in dispenser
		18-30085	1:43 Street Fire L&S Playset - Car Wash, Bridge Asst.
		18-30087	1:43 Street Fire L & S Playset - Car Wash
		18-30090	1:43 Street Fire L & S Playset - Bridge
		18-30092	1:43 Street Fire 2pk + 1:43 Ferrari R&P Assortment
		18-30107	1:43 Street Fire Deluxe Playset
		18-30139	1:43 Street Fire Auto Service, incl. 2 cars
		18-30197	1:43 Ferrari R&P Racing Garage w/1 pc Ferrari car
		18-30183	1:43 Citroen Parking Garage



Test Report

Number: GZHH00390031

Tests Conducted

Applicant's Ref.	:	18-30200	1:43 Street Fire, Asst.
		18-30256	1:43 Citroen DS3
		18-30261	GoGears Super Service Station
		18-30262	GoGears Dual Daredevil Raceway
		18-30263	GoGears High Speed Highway
		18-30270	GoGears, Asst
		18-30275	Go Gears in smaller blister card, Asst.
		18-30277	Super Speed Jump
		18-30278	GoGears Single Loop Set, incl. 1 GoGears vehicle
		18-30279	1:43 Street Fire Ford Focus Combi - Hungarian
		18-30283	1:43 Street Fire Launch and Loop Set
		18-30284	1:43 Street Fire Launch and Jump Set
		18-30285	GoGears Rollin Coaster Raceway Set
		18-30286	GoGears Super-Spin Speedway Set
		18-30291	1:43 Street Fire Launch and Loop Set & 1:43 Street Fire Launch and Jump Set, Asst
		18-30300	1:43 Street Fire L&S Playset - Car Wash, Bridge Asst.
		18-30310	1:43 Security Team Collezione Asst, 24 pcs in Dispenser
		18-30317	GoGears 2pk on blister card
		18-30318	GoGears 3pk on blister card
		18-30322	Ferrari Playmat, asst.
		18-30330	1:43 Fiat Ducato & Fiat Fiorino Asst, 24 pcs in Dispenser
		18-30331	36 pcs GoGears vehicles & 12 pcs Super Speed Jump Playset in Floor Display
		18-30332	GoGears vehicles, 54 pcs in Floor Display
		18-30333	84 Pcs 1:43 Kit Collezione in floor display
		18-30340	GoGears single & Super Speed Jump in Floor Display with &" LED
		18-30341	GoGears single, 112 pcs in Floor Display with 7" LED
		18-30343	GoGears Super Spin Speedway Playset
		18-30344	Bburago Big Playset
		18-30346	1:43 Street Fire - Mega Dealer Showroom
		18-30349	Gogears Emergency set
		18-30350	GOGEARS EMERGENCY
		18-30360	1:43 Street Fire, 12 pc in dispenser (w/o header)
		18-30361	1:43 Street Fire Auto Garage, includes 2 pc 1:43 Street Fire cars
		18-30376	GoGears LCD TV Floor Display (pre-loaded)
		18-30404	1/43 Filling Station
		18-30405	1/43 Street Fire - Mega Dealer Showroom
		18-30406	1:43 Car Wash Playset
		18-36100/18-36000	1:43 Ferrari Race & Play asst
		18-60001	Bburago mixed display
		18-60003	Parking Garage + Auto Service
		18-30364	1:43 Shell petrol station (no cars included)
		18-30368	GoGears Dino Jungle Race & Chase
		18-30432	1/43 Street Fire in 3 pack
		18-36004	10pk 1:43 Street Fire Collezione



Test Report

Number: GZHH00390031

Tests Conducted

Applicant's Ref. : 18-31456 1/43 Mercedes-Benz Actros Style 5-6 vehicle Carrier
18-31457 1/43 Mercedes-Benz Hauler
18-31458 1:43 Mercedes-Benz Actros W/Volkswagen Polo GTII
18-31459 1:43 Mercedes-Benz Actros W/Ford Focus Combi
18-31400 1/43 Street Fire - Flatbed Transport
18-60012 1/43 Street Fire Floor Display
18-31402 1:43 Street Fire Flatbed Transport 1pcs Hauler + 1pcs 1:43 car
18-31403 1:43 Street Fire Flatbed Transport 1pcs Hauler + 1pcs 1:43 car
18-31404 1:43 Street Fire Flatbed Transport 1pcs Hauler + 1pcs 1:43 car
18-31405 1:43 Street Fire Flatbed Transport 1pcs Hauler + 1pcs 1:43 car
18-31406 1:43 Street Fire Flatbed Transport 1pcs Hauler + 1pcs 1:43 car
18-31408 1:43 Street Fire Flatbed Transport 1pcs Hauler + 1pcs 1:43 BMW 335I
18-31411 1:43 Street Fire Flatbed Transport 1pcs Hauler + 1pcs 1:43
Jeep Renegade
18-31412 1:43 Street Fire Flatbed Transport 1pcs Car Hauler + 1pcs
1:43 Renault Megane
18-31416 1:43 Street Fire Flatbed Transport 1pcs Car Hauler + 1pcs 1:43
Audi R8
18-31027 1/43 Mix Floor Display
18-31028 STREET FIRE MIXED FLOOR DISPLAY
18-31610 10cm Farm Tractor
18-31650 10cm Farm Tractor w/trailer
18-31651 10cm Fendt 1050 Vario with Tree Forwarder
18-31630 #18-31630 10cm Farm Tractor w/front loader
18-31652 10cm Fendt 1050 Vario Variowith Livestock Trailer
18-31653 10cm Fendt 1050 Vario Variowith Combination Trailer ('19)
18-31654 10cm Fendt 1050 Vario Variowith Tipping Trailer ('19)
18-60021 10cm Farm Tractor Floor Display
18-32080 1/50 Construction asst
18-32085 1:53 Volvo A25G Articulated Hauler
18-60020 FARM + CONSTRUCTION FLOOR DISPLAY

Above sample information is submitted and/or identified by client



Test Report

Number: GZHH00390031

Tests Conducted



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.

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