





Report No. A2220158821102

Company NameCELESTIAL BUDDIES, LLCshown on Report405 ORANGE STREET NEW HAVEN, CONNECTICUT 06511, USA

ample information was/were submitted and identified by/on the behalf of
Please refer to the page 2
Please refer to the page 2
Umay Gift Co. Ltd
CHINA
Europe, UK
Others: 0+
Black hole:3+
Others: 0+
Black hole:3+
Others: All ages
Black hole: Over 3 years
Apr. 29, 2022/ Jun.9, 2022
May 27, 2022/Jun.1, 2022/Jun. 7, 2022/Jun. 9, 2022
Apr. 29, 2022 to Jun.20, 2022

Test Conducted: As requested by the applicant. For details refer to next page(s)



flill

Hill Zheng Technical Manager

ren

Jeff Chen Lab authorized signatory No. T297671008

C 静脉位测话员 The rnational Group Co., Ltd. Inspection & Testing Services CTL Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Page 1 of 39



Report No. A2220158821102

Page 2 of 39

No.	SKU	Name	UPC
1	CB015	Our Precious Planet	644216551507
2	CB003	Jupiter Buddy	713757470612
3	CB004	Mars Buddy	736211358677
4	CB005	Mercury Buddy	713757470513
5	CB006	Moon Buddy	736211358776
6	CB007	Neptune Buddy	19962000577
7	CB008	Saturn Buddy	713757470711
8	CB009	Sun Buddy	736211358974
9	CB010	Uranus Buddy	19962000478
10	CB011	Venus Buddy	748252471710
11	CB001	Comet Buddy	748252471611
12	CB012	Pluto & Charon Buddies	748252135193
13	CB029	Polaris (W/batteries & LED lights)	793888859333
14	CB017	Two Little Blue Stars (Polaris Ab & B)	793888859432
15	CB014	Black Hole	748252233295



Report No. A2220158821102

Page 3 of 39

Executive Summary:

TE	ST REQUEST	CONCLUSION
1)	EN 71-1:2014+A1:2018 European Standard on Safety of Toys	
-	Mechanical and Physical Properties	PASS
2)	EN 71-2:2020 European Standard on Safety of Toys	
-	Flammability	PASS
3)	EN 71-3:2019+A1:2021 European Standard on Safety of Toys	
-	Migration of certain elements	PASS
4)	Toy Safety Directive 2009/48/EC with amendment(s)	
-	Bisphenol A	PASS
5)	Annex XVII of European regulation (EC) No. 1907/2006 (REACH) with	
	Amendment(s)	
-	Cadmium and its compounds	PASS
-	Azo colourants	PASS
-	Phthalates in plasticized materials	PASS
-	Lead and its compounds	PASS
6)	EN IEC 62115:2020+A11:2020 Electric toys - Safety	
-	Electric toys – Safety(ex clause 19)	PASS
7)	Color Fastness to Rubbing(EN ISO 105-X12-2016)	See page 33

For chemical test, the tested component(s) is/are identified by the client.



Report No. A2220158821102

Page 4 of 39

1) EN 71-1:2014+A1:2018 European Standard on Safety of Toys

▼ Mechanical and Physical Properties

As specified in European Standard on Safety of Toys EN 71 part 1:2014+A1:2018.

<u>Clause</u>	Description	Assessment
4	General requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	N/A
4.3	Flexible plastics sheeting	N/A
4.4	Toy bags	Pass
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	N/A
4.10	Parts moving against each other:	
	4.10.1 Folding and sliding mechanisms	N/A
	4.10.2 Driving mechanisms	N/A
	4.10.3 Hinges	N/A
	4.10.4 Springs	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures:	N/A
4.15	Toys intended to bear the mass of a child	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectile toys	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion	
	caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy Disguise Costumes	N/A
4.27	Flying toys	N/A

Test Report

Report No. A2220158821102

Page 5 of 39

	1122	20130021102	1 420 5 61
<u>Clause</u>	Descri	ption	Assessment
5	Toys in	tended for children under 36 months	
5.1	Genera		
	5.1a	Small part requirement on toys & removable	
		Components (Test method 8.2)	Pass
	5.1b	Torque test (Test method 8.3)	Pass
		Tension test (Test method 8.4)	Pass
		Drop test (Test method 8.5)	Pass
		Tip over test (Test method 8.6)	N/A
		Impact test (Test method 8.7)	Pass
		Compression test (Test method 8.8)	N/A
		Sharpness of edges (Test method 8.11)	Pass
		Sharpness of points (Test method 8.12)	Pass
		Tension test of magnets (Test method 8.34)	N/A
	5.1c	Metal points and wires with a cross section of 2 mm or less	N/A
	5.1d	Tip over test for Large and bulky toys (Test method 8.6)	N/A
	5.1e	Glued wooden toys and toys with glued-on plastic decals	N/A
	5.1f	The casing of toys intended for children too young to sit up unaided	N/A
	5.1g	Foam toys and toys containing accessible foam components	N/A
5.2	Soft-fil	led toys and soft-filled parts of a toy	Pass
5.3	Plastic	sheeting	N/A
5.4	Cords,	chains and electrical cables in toys	Pass
5.5	Liquid	filled toys	N/A
5.6	Speed 1	limitation of electrically-driven ride-on toys	N/A
5.7	Glass a	nd porcelain	N/A
5.8	Shape a	and size of certain toys	Pass
5.9	Toys co	omprising monofilament fibres	N/A
5.10	Small b	balls	N/A
5.11	Play fig	gures	N/A
5.12	Hemisp	pheric-shaped toys	N/A
5.13	Suction	ı cups	N/A
5.14	Straps	intended to be worn fully or partially around the neck	N/A
6	Packag	ing	Pass
7	Warnin	gs, markings and instructions for use	
7.1	Genera	J	N/A
7.2	Toys no	ot intended for children under 36 months	N/A
	(Rema	rk : No hazard specified in chapter 5 was found before and after test.)	



Report No. A2220158821102

Page 6 of 39

Clause Description

Assessment

Annex A.33 Warnings, markings and instructions for use

Check points	Location where the information is				
Check points	<u>On toy</u>	On packaging			
CE Mark	\checkmark	×			
Product ID	\checkmark	\checkmark			
Manufacturer's Name & Address	\checkmark	×			
Importer's Name & Address	\checkmark	×			

Remark:

- ①: Toys made available on the market must bear the CE marking. The CE marking must be subject to the general principle set out in Article 30 of Regulation (EC) No 765/2008. The CE marking must be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging.
- ②: The manufacturer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer.
- ③: The manufacturer must 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.

N/A = Not Applicable

Note:

- Only applicable clause(s) was/ were shown.
- Result(s) shown of tested clause(s) (5.1, 5.4) is/are based on resubmitted sample(s)/part material(s).



Report No.	A2220158821102	Page 7 of 39
2) EN 71-2	:2020 European Standard on Safety of Toys	
▼ Flamma	ability	
As speci	fied in European Standard on Safety of Toys EN 71-2:2020.	
<u>Clause</u>	Description	Assessment
4	Requirements	
4.1	General requirements	Pass
	(The following materials shall not be used in the manufacture of toys except as	
	provided in EN 71-2:2020:	
	Celluloid, highly flammable solids, materials with a piled surface which produce	
	surface flash, flammable gases, extremely flammable liquids, highly flammable	
	liquids, flammable liquids and flammable gels.)	
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A
		(See Note 1)

Note 1:

Soft-filled Toys (Clause 4.5)						
Sample	Burning rate (mm/sec)					
Plush toys	IBE					

(The rate of spread of flame on the surface of toy shall not be greater than 30 mm/sec)

IBE = Ignite But Self-Extinguished

N/A = Not Applicable

Note:

- Only applicable clause(s) was/ were shown.



Report No. A2220158821102

Page 8 of 39

3) EN 71-3:2019+A1:2021 European Standard on Safety of Toys

▼ <u>Migration of certain elements</u>

Method(s) EN 71-3:2019+A1:2021 was/were used, and the item(s) was/were analyzed by ICP-OES, ICP-MS, ICP-UV and/or GC-MS.

Category Ⅲ	: scraped-off	toy material
------------	---------------	--------------

Tested Item(s)		Re	<u>sult</u> (mg/	kg)		MDL	Limit
<u>rested item(s)</u>	001	002	003	005	006	(mg/kg)	(mg/kg)
Aluminium (Al)	N.D.	N.D.	N.D.	83	138	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

Test Report

Report No. A2220158821102

Testad Item(s)	Result (mg/kg)					MDL	<u>Limit</u>
Tested Item(s)	007	008	009	010	011	(mg/kg)	(mg/kg)
Aluminium (Al)	N.D.	N.D.	354	N.D.	116	50	28130
Antimony (Sb)	N.D.	11	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	115	50	46000

Page 9 of 39

Test Report

Report No. A2220158821102

MDL Result (mg/kg) Limit Tested Item(s) 014 015 016 017 018 (mg/kg) (mg/kg) N/A N/A 202 N.D. N.D. 50 28130 Aluminium (Al) N/A 560 Antimony (Sb) N/A N.D. N.D. N.D. 5 47 N/A 5 Arsenic (As) N/A N.D. N.D. N.D. 18750 N/A N/A N.D. N.D. 50 Barium (Ba) N.D. N/A 15000 Boron (B) N/A N.D. N.D. N.D. 50 N/A 17 Cadmium (Cd) N/A N.D. N.D. N.D. 1 N/A 460 Chromium (III) #1 N/A N.D. N.D. N.D. 0.2 0.053 N/A Chromium (VI) N/A N.D. N.D. N.D. 0.002 N/A 130 Cobalt (Co) N/A N.D. N.D. N.D. 5 N/A 7700 N/A N.D. N.D. 50 Copper (Cu) N.D. N/A 23 Lead (Pb) N/A N.D. N.D. 3 1 N/A 15000 N/A N.D. N.D. N.D. 50 Manganese (Mn) N/A 5 94 Mercury (Hg) N/A N.D. N.D. N.D. 930 Nickel (Ni) N/AN/A N.D. N.D. N.D. 5 N/A 460 5 N/A N.D. N.D. Selenium (Se) N.D. N/A 56000 Strontium (Sr) N/A N.D. N.D. N.D. 50 180000 Tin (Sn) #2 N/A N/A N.D. N.D. N.D. 2 N/A Organic tin (TBT) #3 0.05 N/A N.D. N.D. N.D. 12 N/A 46000 Zinc (Zn) N/A N.D. N.D. N.D. 50

Page 10 of 39

Test Report

Report No. A2220158821102

Tested Item(s)		<u>Result</u> (mg/kg)				MDL	Limit
<u>rested item(s)</u>	019	020	021	022	023	(mg/kg)	(mg/kg)
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	6	N.D.	7	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	N.D.	0.5	N.D.	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

Page 11 of 39

Test Report

Report No. A2220158821102

Tested Item(s)		Re	<u>sult</u> (mg/	kg)		MDL	Limit
<u>rested ttetti(s)</u>	024	025	026	027	028	(mg/kg)	(mg/kg)
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

Page 12 of 39

Test Report

Report No. A2220158821102

Tested Item(s)		Re	<u>sult</u> (mg/	kg)		MDL	<u>Limit</u>
<u>rested item(s)</u>	029	030	031	032	033	(mg/kg)	(mg/kg)
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

Page 13 of 39

Test Report

Report No. A2220158821102

MDL Result (mg/kg) Limit Tested Item(s) 034 035 036 037 038 (mg/kg) (mg/kg) N.D. N.D. N.D. N.D. N.D. 50 28130 Aluminium (Al) N.D. 560 Antimony (Sb) N.D. N.D. N.D. N.D. 5 47 N.D. 5 Arsenic (As) N.D. N.D. N.D. N.D. 18750 N.D. N.D. N.D. N.D. 50 Barium (Ba) N.D. N.D. 15000 Boron (B) N.D. N.D. N.D. N.D. 50 N.D. 17 Cadmium (Cd) N.D. N.D. N.D. N.D. 1 N.D. 460 Chromium (III) #1 N.D. N.D. N.D. N.D. 0.2 0.053 N.D. Chromium (VI) N.D. N.D. N.D. N.D. 0.002 N.D. 130 Cobalt (Co) N.D. N.D. N.D. N.D. 5 N.D. 7700 N.D. N.D. N.D. 50 Copper (Cu) N.D. N.D. 23 Lead (Pb) N.D. N.D. N.D. N.D. 1 N.D. 15000 N.D. N.D. N.D. N.D. 50 Manganese (Mn) N.D. 5 94 Mercury (Hg) N.D. N.D. N.D. N.D. 930 Nickel (Ni) N.D. N.D. N.D. N.D. N.D. 5 N.D. 460 5 N.D. N.D. N.D. Selenium (Se) N.D. N.D. 56000 Strontium (Sr) N.D. N.D. N.D. N.D. 50 180000 Tin (Sn) #2 N.D. N.D. N.D. N.D. N.D. 2 N.D. Organic tin (TBT) #3 0.05 N.D. N.D. N.D. N.D. 12 N.D. 46000 Zinc (Zn) N.D. N.D. N.D. N.D. 50

Test Report

Report No. A2220158821102

MDL Result (mg/kg) Limit Tested Item(s) 039 040 041 042 043 (mg/kg) (mg/kg) N.D. N.D. N.D. N.D. N.D. 50 28130 Aluminium (Al) N.D. 560 Antimony (Sb) N.D. N.D. N.D. N.D. 5 47 N.D. 5 Arsenic (As) N.D. N.D. N.D. N.D. 18750 N.D. N.D. N.D. N.D. 50 Barium (Ba) N.D. N.D. 15000 Boron (B) N.D. N.D. N.D. N.D. 50 N.D. 17 Cadmium (Cd) N.D. N.D. N.D. N.D. 1 N.D. 460 Chromium (III) #1 N.D. N.D. N.D. 0.5 0.2 0.053 N.D. Chromium (VI) N.D. N.D. N.D. N.D. 0.002 N.D. 130 Cobalt (Co) N.D. N.D. N.D. N.D. 5 N.D. 7700 N.D. N.D. 50 Copper (Cu) N.D. N.D. N.D. 23 Lead (Pb) N.D. N.D. N.D. N.D. 1 N.D. 15000 N.D. N.D. N.D. N.D. 50 Manganese (Mn) N.D. 5 94 Mercury (Hg) N.D. N.D. N.D. N.D. 930 Nickel (Ni) N.D. N.D. N.D. N.D. N.D. 5 N.D. 460 5 N.D. N.D. N.D. Selenium (Se) N.D. N.D. 56000 Strontium (Sr) N.D. N.D. N.D. N.D. 50 180000 Tin (Sn) #2 N.D. N.D. N.D. N.D. N.D. 2 N.D. Organic tin (TBT) #3 0.05 N.D. N.D. N.D. N.D. 12 N.D. 46000 Zinc (Zn) N.D. N.D. N.D. N.D. 50

Test Report

Report No. A2220158821102

MDL Result (mg/kg) Limit Tested Item(s) 044 045 046 047 049 (mg/kg) (mg/kg) N.D. N.D. N.D. N.D. N.D. 50 28130 Aluminium (Al) 29 560 Antimony (Sb) N.D. 36 N.D. N.D. 5 47 N.D. 5 Arsenic (As) N.D. N.D. N.D. N.D. 18750 N.D. N.D. N.D. N.D. 50 Barium (Ba) N.D. N.D. 15000 Boron (B) N.D. N.D. N.D. N.D. 50 N.D. 17 Cadmium (Cd) N.D. N.D. N.D. N.D. 1 N.D. 460 Chromium (III) #1 N.D. N.D. N.D. N.D. 0.2 0.053 N.D. Chromium (VI) N.D. N.D. N.D. N.D. 0.002 N.D. 130 Cobalt (Co) N.D. N.D. N.D. N.D. 5 N.D. 7700 N.D. N.D. N.D. 50 Copper (Cu) N.D. N.D. 23 Lead (Pb) N.D. N.D. N.D. N.D. 1 N.D. 15000 N.D. N.D. N.D. N.D. 50 Manganese (Mn) N.D. 5 94 Mercury (Hg) N.D. N.D. N.D. N.D. 930 Nickel (Ni) N.D. N.D. N.D. N.D. N.D. 5 N.D. 460 5 N.D. N.D. N.D. Selenium (Se) N.D. N.D. 56000 Strontium (Sr) N.D. N.D. N.D. N.D. 50 180000 Tin (Sn) #2 N.D. N.D. N.D. N.D. N.D. 2 N.D. Organic tin (TBT) #3 0.05 N.D. N.D. N.D. N.D. 12 N.D. 46000 Zinc (Zn) N.D. N.D. N.D. N.D. 50

Page 16 of 39

Test Report

Report No. A2220158821102

MDL Result (mg/kg) Limit Tested Item(s) 050 051 052 053 054 (mg/kg) (mg/kg) N.D. N.D. N.D. N.D. N.D. 50 28130 Aluminium (Al) N.D. 560 Antimony (Sb) N.D. N.D. N.D. N.D. 5 47 N.D. 5 Arsenic (As) N.D. N.D. N.D. N.D. 18750 N.D. N.D. N.D. N.D. 50 Barium (Ba) N.D. N.D. 15000 Boron (B) N.D. N.D. N.D. N.D. 50 N.D. 17 Cadmium (Cd) N.D. N.D. N.D. N.D. 1 N.D. 460 Chromium (III) #1 N.D. N.D. N.D. N.D. 0.2 0.053 N.D. Chromium (VI) N.D. N.D. N.D. N.D. 0.002 N.D. 130 Cobalt (Co) N.D. N.D. N.D. N.D. 5 N.D. 7700 N.D. N.D. N.D. 50 Copper (Cu) N.D. N.D. 23 Lead (Pb) N.D. N.D. N.D. N.D. 1 N.D. 15000 N.D. N.D. N.D. N.D. 50 Manganese (Mn) N.D. 5 94 Mercury (Hg) N.D. N.D. N.D. N.D. 930 Nickel (Ni) N.D. N.D. N.D. N.D. N.D. 5 N.D. 460 5 N.D. N.D. N.D. Selenium (Se) N.D. N.D. 56000 Strontium (Sr) N.D. N.D. N.D. N.D. 50 180000 Tin (Sn) #2 N.D. N.D. N.D. N.D. N.D. 2 N.D. Organic tin (TBT) #3 0.05 N.D. N.D. N.D. N.D. 12 N.D. 46000 Zinc (Zn) N.D. N.D. N.D. N.D. 50

Test Report

Report No. A2220158821102

MDL Result (mg/kg) Limit Tested Item(s) 055 056 057 058 059 (mg/kg) (mg/kg) N.D. N.D. N.D. N.D. N.D. 50 28130 Aluminium (Al) N.D. 560 Antimony (Sb) N.D. N.D. N.D. 5 6 47 N.D. 5 Arsenic (As) N.D. N.D. N.D. N.D. 18750 N.D. N.D. N.D. N.D. 50 Barium (Ba) N.D. N.D. 15000 Boron (B) N.D. N.D. N.D. N.D. 50 N.D. 17 Cadmium (Cd) N.D. N.D. N.D. N.D. 1 N.D. 460 Chromium (III) #1 N.D. N.D. N.D. N.D. 0.2 0.053 N.D. Chromium (VI) N.D. N.D. N.D. N.D. 0.002 N.D. 130 Cobalt (Co) N.D. N.D. N.D. N.D. 5 N.D. 7700 N.D. N.D. N.D. 50 Copper (Cu) N.D. N.D. 23 Lead (Pb) N.D. N.D. N.D. N.D. 1 N.D. 15000 N.D. N.D. N.D. N.D. 50 Manganese (Mn) N.D. 5 94 Mercury (Hg) N.D. N.D. N.D. N.D. 930 Nickel (Ni) N.D. N.D. N.D. N.D. N.D. 5 N.D. 460 5 N.D. N.D. N.D. Selenium (Se) N.D. N.D. 56000 Strontium (Sr) N.D. N.D. N.D. N.D. 50 180000 Tin (Sn) #2 N.D. N.D. N.D. N.D. N.D. 2 N.D. Organic tin (TBT) #3 0.05 N.D. N.D. N.D. N.D. 12 N.D. 46000 Zinc (Zn) N.D. N.D. N.D. N.D. 50

Page 18 of 39

Test Report

Report No. A2220158821102

MDL Result (mg/kg) Limit Tested Item(s) 060 061 062 063 064 (mg/kg) (mg/kg) N.D. N.D. N.D. N.D. N.D. 50 28130 Aluminium (Al) N.D. 560 Antimony (Sb) N.D. N.D. N.D. N.D. 5 47 N.D. 5 Arsenic (As) N.D. N.D. N.D. N.D. 18750 N.D. N.D. N.D. N.D. 50 Barium (Ba) N.D. N.D. 15000 Boron (B) N.D. N.D. N.D. N.D. 50 N.D. 17 Cadmium (Cd) N.D. N.D. N.D. N.D. 1 N.D. 460 Chromium (III) #1 N.D. N.D. N.D. N.D. 0.2 0.053 N.D. Chromium (VI) N.D. N.D. N.D. N.D. 0.002 N.D. 130 Cobalt (Co) N.D. N.D. N.D. N.D. 5 N.D. 7700 N.D. N.D. N.D. 50 Copper (Cu) N.D. N.D. 23 Lead (Pb) N.D. N.D. N.D. N.D. 1 N.D. 15000 N.D. N.D. N.D. N.D. 50 Manganese (Mn) N.D. 5 94 Mercury (Hg) N.D. N.D. N.D. N.D. 930 Nickel (Ni) N.D. N.D. N.D. N.D. N.D. 5 N.D. 460 5 N.D. N.D. N.D. Selenium (Se) N.D. N.D. 56000 Strontium (Sr) N.D. N.D. N.D. N.D. 50 180000 Tin (Sn) #2 N.D. N.D. N.D. N.D. N.D. 2 N.D. Organic tin (TBT) #3 0.05 N.D. N.D. N.D. N.D. 12 N.D. 46000 Zinc (Zn) N.D. N.D. N.D. N.D. 50

Page 19 of 39

Test Report

Report No. A2220158821102

Page 20 of 39

Tostad Itam(s)		Result (mg/kg)	MDL	Limit
Tested Item(s)	065	066	067	(mg/kg)	(mg/kg)
Aluminium (Al)	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	0.5	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	50	46000

Test Report

Report No. A2220158821102

Tested Item(s)		Re	<u>sult</u> (mg/	kg)		MDL	Limit
<u>rested item(s)</u>	089	090	091	092	093	(mg/kg)	(mg/kg)
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	6	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	N.D.	N.D.	N.D.	N.D.	2.6.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

Page 21 of 39

r

Test Report

A 2220158821102 Report No.

8821102					Page 22 of 3
	Result	(mg/kg)		MDL	Limit
094	095	096	097	(mg/kg)	(mg/kg)
N.D.	N.D.	N.D.	N.D.	50	28130
N.D.	N.D.	N.D.	N.D.	5	560
N.D.	N.D.	N.D.	N.D.	5	47
N.D.	N.D.	N.D.	N.D.	50	18750
N.D.	N.D.	N.D.	N.D.	50	15000
N.D.	N.D.	N.D.	N.D.	1	17
N.D.	N.D.	N.D.	N.D.	0.2	460
N.D.	N.D.	N.D.	N.D.	0.002	0.053
N.D.	N.D.	N.D.	N.D.	5	130
N.D.	N.D.	N.D.	N.D.	50	7700
N.D.	N.D.	N.D.	N.D.	1	23
N.D.	N.D.	N.D.	N.D.	50	15000
N.D.	N.D.	N.D.	N.D.	5	94
N.D.	N.D.	N.D.	N.D.	5	930
	N.D. N.D.	Result 094 095 N.D. N.D. N.D. N.D.	Result (mg/kg) 094 095 096 N.D. N.D. N.D. N.D. <td>Result (mg/kg) 094 095 096 097 N.D. N.D. N.D. N.D. N.D. N.D.</td> <td>Result (mg/kg) MDL (mg/kg) 094 095 096 097 (mg/kg) N.D. N.D. N.D. N.D. 50 N.D. N.D. N.D. N.D. 50 N.D. N.D. N.D. 1 N.D. N.D. N.D. 0.2 N.D. N.D. N.D. 0.002 N.D. N.D. N.D. 50 N.D. N.D. N.D. 50 N.D. N.D. N.D. 50 N.D. N.D. N.D. 50 N.D. N.D. N.D. 50</td>	Result (mg/kg) 094 095 096 097 N.D. N.D. N.D. N.D. N.D. N.D.	Result (mg/kg) MDL (mg/kg) 094 095 096 097 (mg/kg) N.D. N.D. N.D. N.D. 50 N.D. N.D. N.D. N.D. 50 N.D. N.D. N.D. 1 N.D. N.D. N.D. 0.2 N.D. N.D. N.D. 0.002 N.D. N.D. N.D. 50 N.D. N.D. N.D. 50 N.D. N.D. N.D. 50 N.D. N.D. N.D. 50 N.D. N.D. N.D. 50

N.D.

N.D.

N.D.

N.D.

N.D.

Remark:

Selenium (Se)

Strontium (Sr)

Organic tin (TBT) #3

Tin (Sn) #2

Zinc (Zn)

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- N/A = Not Applicable, indicates the test portion(s) is/are less than 10mg, therefore such componentswas/were not tested for migration of certain elements, as specified in the European standard on safety of toys EN 71-3:2019+A1:2021, clause 7 - selection of test portions.
- Filter paper was used instead of membrane filter in lab testing.

N.D.

- Where the test portion has a mass of between 10mg and 100mg, the quantity of the appropriate elements shall be calculated as if 100mg of the test portion had been used. (tested sample: 006 sample weight: 34.7mg, 011 sample weight: 21.7mg, 016 sample weight: 21.1mg, 047 sample weight: 49.7mg, 054 sample weight: 92.8mg, 055 sample weight: 99.5mg, 056 sample weight: 99.8mg, 057 sample weight: 98.1mg, 058 sample weight: 85.7mg, 060 sample weight: 99.5mg, 061 sample weight: 99.9mg, 063 sample weight: 99.8mg)
- ^{#1} Trivalent chromium (Cr (III)) = Chromium (Cr) Hexavalent chromium (Cr (VI)).

Page 22 of 39

460

56000

180000

12

46000

5

50

2

0.05

50

Test Report

Report No. A2220158821102

- ^{#2} Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2019+A1:2021.
- ^{#3} The migration of organic tin is expressed as tributyltin (TBT). Where the tin content exceeded the limit of organic tin, eleven organic tins listed in the table were determined by GC-MS and the client should note there are other organic tins that may be present in toy materials.

Organic tins tested under EN 71-3:2019+A1:2021
Methyl tin (MeT)
Butyl tin (BuT)
Dibutyl tin (DBT)
Tributyl tin (TBT)
Tetrabutyl tin (TeBT)
n-Octyl tin (MOT)
Di-n-octyl tin (DOT)
Di-n-propyl tin (DProT)
Diphenyl tin (DPhT)
Triphenyl tin (TPhT)
Dimethyl tin (DMT)

- Result(s) shown of tested component(s) 093 is/are based on resubmitted part materials.

4) Toy Safety Directive 2009/48/EC with amendment(s)

▼ <u>Bisphenol A</u> ※

As specified in Toy Safety Directive 2009/48/EC with amendment 2017/898/EU, Bisphenol A was determined with reference to EN 71-10:2005 -Sample preparation and extraction and EN 71-11:2005-Methods of analysis.

Tested Item(s) CAS No.		<u>Result</u>	(mg/L)		MDL	<u>Limit</u>	
<u>rested item(s)</u>	<u>CAS NO.</u>	001	005	006	007	(mg/L)	(mg/L)
Bisphenol A	80-05-7	N.D.	N.D.	N.D.	N.D.	0.04	0.04

Tested Item(s) CAS No.		<u>Result</u>	(mg/L)		MDL	<u>Limit</u>	
Tested Item(s) CAS No.		010	085	086	087	(mg/L)	(mg/L)
Bisphenol A	80-05-7	N.D.	N.D.	N.D.	N.D.	0.04	0.04

	<u>Result</u>	(mg/L)	MDL	<u>Limit</u>	
Tested Item(s)CAS No.		088	089	(mg/L)	(mg/L)
Bisphenol A	80-05-7	N.D.	N.D.	0.04	0.04

Page 23 of 39

Test Report

Report No. A2220158821102

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/L = milligram per liter
- "X" indicates the item(s)/method(s) is (are) not in UKAS accreditation scope.

5) Annex XVII of European regulation (EC) No. 1907/2006 (REACH) with Amendment(s)

▼ <u>Cadmium and its compounds</u>

As specified in entry 23, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendments No.552/2009 & No.494/2011 & No.835/2012 & No. 2016/217, method(s) EN 1122:2001(E) Method B was/were used, and the item(s) was/were analyzed by ICP-OES.

Tested Item(s)		Result (mg/kg)		MDL	<u>Limit</u>
Tested Item(s)	001+002+003	005+006+007	008+009	(mg/kg)	(mg/kg)
Cadmium (Cd)	N.D.	N.D.	N.D.	2	100

Tested Item(s)		Result (mg/kg)		MDL	<u>Limit</u>
Tested Item(s)	010	069+070+071	072+073	(mg/kg)	(mg/kg)
Cadmium (Cd)	N.D.	N.D.	N.D.	2	100

Tested Item(s)		Result (mg/kg)		MDL	<u>Limit</u>
<u>rested ttem(s)</u>	074+080	075	076	(mg/kg)	(mg/kg)
Cadmium (Cd)	N.D.	N.D.	N.D.	2	100

Tested Item(s)		Result (mg/kg) MDL Limit			
Tested Item(s)	077+078	079	081	(mg/kg)	(mg/kg)
Cadmium (Cd)	N.D.	N.D.	N.D.	2	100

Tested Items(s)	<u>Result</u>	esult (mg/kg) <u>MDL</u> Limit		<u>Limit</u>
Tested Item(s)	082	089	(mg/kg)	(mg/kg)
Cadmium (Cd)	N.D.	N.D.	2	100

Tested Item(s)	Result	(mg/kg)	MDL	<u>Limit</u>
<u>rested item(s)</u>	011	014+015+016	(mg/kg)	(mg/kg)
Cadmium (Cd)	N.D.	N.D.	2	1000

Page 24 of 39

Test Report

Report No. A2220158821102

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- The limit for composite test should be divided by the mixed number.

▼ Azo colourants

As specified in entry 43, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendment No.552/2009, method(s) ISO 14362-1:2017 was/were used, and the item(s) was/were analyzed by GC-MS and/or HPLC.

			<u>Result</u> (mg/kg)			
Tested Item(s)	CAS No.	017	018+019 +020	021+022 +023	024+025 +026	<u>MDL</u> (mg/kg)
4-Aminodiphenyl	92-67-1	N.D.	N.D.	N.D.	N.D.	5
Benzidine	92-87-5	N.D.	N.D.	N.D.	N.D.	5
4-Chloro-O-Toluidine	95-69-2	N.D.	N.D.	N.D.	N.D.	5
2-Naphthylamine	91-59-8	N.D.	N.D.	N.D.	N.D.	5
O-Aminoazotoluene	97-56-3	N.D.	N.D.	N.D.	N.D.	5
2-Amino-4-Nitrotoluene	99-55-8	N.D.	N.D.	N.D.	N.D.	5
P-Chloroaniline	106-47-8	N.D.	N.D.	N.D.	N.D.	5
2,4-Diaminoanisole	615-05-4	N.D.	N.D.	N.D.	N.D.	5
4,4'-Diaminodiphenylmethane	101-77-9	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dichlorobenzidine	91-94-1	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dimethoxybenzidine	119-90-4	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dimethylbenzidine	119-93-7	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dimethyl- 4,4'Diaminodiphenylmethane	838-88-0	N.D.	N.D.	N.D.	N.D.	5
P-Cresidine	120-71-8	N.D.	N.D.	N.D.	N.D.	5
4,4'-Methylene- Bis(2-Chloroaniline)	101-14-4	N.D.	N.D.	N.D.	N.D.	5
4,4'-Oxydianiline	101-80-4	N.D.	N.D.	N.D.	N.D.	5
4,4'-Thiodianiline	139-65-1	N.D.	N.D.	N.D.	N.D.	5
O-Toluidine	95-53-4	N.D.	N.D.	N.D.	N.D.	5
2,4-Toluylenediamine	95-80-7	N.D.	N.D.	N.D.	N.D.	5
2,4,5-Trimethylaniline	137-17-7	N.D.	N.D.	N.D.	N.D.	5

Page 25 of 39

Test Report

Report No. A2220158821102

Result (mg/kg) MDL Tested Item(s) CAS No. 018+019 021+022 024+025 017 (mg/kg) +020+023+026O-Anisidine 90-04-0 N.D. N.D. N.D. N.D. 5 P-Aminoazobenzene 60-09-3 N.D. N.D. N.D. N.D. 5 2,4-Xylidine 💥 95-68-1 N.D. N.D. N.D. N.D. 5 2,6-Xylidine X 87-62-7 N.D. N.D. N.D. N.D. 5

T (11(()	CAGN		Result ((mg/kg)		MDL
Tested Item(s)	<u>CAS No.</u>	027	028	029	030	(mg/kg)
4-Aminodiphenyl	92-67-1	N.D.	N.D.	N.D.	N.D.	5
Benzidine	92-87-5	N.D.	N.D.	N.D.	N.D.	5
4-Chloro-O-Toluidine	95-69-2	N.D.	N.D.	N.D.	N.D.	5
2-Naphthylamine	91-59-8	N.D.	N.D.	N.D.	N.D.	5
O-Aminoazotoluene	97-56-3	N.D.	N.D.	N.D.	N.D.	5
2-Amino-4-Nitrotoluene	99-55-8	N.D.	N.D.	N.D.	N.D.	5
P-Chloroaniline	106-47-8	N.D.	N.D.	N.D.	N.D.	5
2,4-Diaminoanisole	615-05-4	N.D.	N.D.	N.D.	N.D.	5
4,4'-Diaminodiphenylmethane	101-77-9	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dichlorobenzidine	91-94-1	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dimethoxybenzidine	119-90-4	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dimethylbenzidine	119-93-7	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dimethyl- 4,4'Diaminodiphenylmethane	838-88-0	N.D.	N.D.	N.D.	N.D.	5
P-Cresidine	120-71-8	N.D.	N.D.	N.D.	N.D.	5
4,4'-Methylene- Bis(2-Chloroaniline)	101-14-4	N.D.	N.D.	N.D.	N.D.	5
4,4'-Oxydianiline	101-80-4	N.D.	N.D.	N.D.	N.D.	5
4,4'-Thiodianiline	139-65-1	N.D.	N.D.	N.D.	N.D.	5
O-Toluidine	95-53-4	N.D.	N.D.	N.D.	N.D.	5
2,4-Toluylenediamine	95-80-7	N.D.	N.D.	N.D.	N.D.	5
2,4,5-Trimethylaniline	137-17-7	N.D.	N.D.	N.D.	N.D.	5
O-Anisidine	90-04-0	N.D.	N.D.	N.D.	N.D.	5
P-Aminoazobenzene	60-09-3	N.D.	N.D.	N.D.	N.D.	5
2,4-Xylidine X	95-68-1	N.D.	N.D.	N.D.	N.D.	5
2,6-Xylidine*	87-62-7	N.D.	N.D.	N.D.	N.D.	5

Page 26 of 39

Test Report

Report No. A2220158821102

Page 27 of 39

Tested Item(s)	CAS No.	031+032	034+035	037+038	041+042	MDL
		+033	+036	+039	+084	(mg/kg)
4-Aminodiphenyl	92-67-1	N.D.	N.D.	N.D.	N.D.	5
Benzidine	92-87-5	N.D.	N.D.	N.D.	N.D.	5
4-Chloro-O-Toluidine	95-69-2	N.D.	N.D.	N.D.	N.D.	5
2-Naphthylamine	91-59-8	N.D.	N.D.	N.D.	N.D.	5
O-Aminoazotoluene	97-56-3	N.D.	N.D.	N.D.	N.D.	5
2-Amino-4-Nitrotoluene	99-55-8	N.D.	N.D.	N.D.	N.D.	5
P-Chloroaniline	106-47-8	N.D.	N.D.	N.D.	N.D.	5
2,4-Diaminoanisole	615-05-4	N.D.	N.D.	N.D.	N.D.	5
4,4'-Diaminodiphenylmethane	101-77-9	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dichlorobenzidine	91-94-1	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dimethoxybenzidine	119-90-4	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dimethylbenzidine	119-93-7	N.D.	N.D.	N.D.	N.D.	5
3,3'-Dimethyl-	020 00 0	ND	ND	ND	ND	F
4,4'Diaminodiphenylmethane	838-88-0	N.D.	N.D.	N.D.	N.D.	5
P-Cresidine	120-71-8	N.D.	N.D.	N.D.	N.D.	5
4,4'-Methylene-	101 14 4		ND		ND	E
Bis(2-Chloroaniline)	101-14-4	N.D.	N.D.	N.D.	N.D.	5
4,4'-Oxydianiline	101-80-4	N.D.	N.D.	N.D.	N.D.	5
4,4'-Thiodianiline	139-65-1	N.D.	N.D.	N.D.	N.D.	5
O-Toluidine	95-53-4	N.D.	N.D.	N.D.	N.D.	5
2,4-Toluylenediamine	95-80-7	N.D.	N.D.	N.D.	N.D.	5
2,4,5-Trimethylaniline	137-17-7	N.D.	N.D.	N.D.	N.D.	5
O-Anisidine	90-04-0	N.D.	N.D.	N.D.	N.D.	5
P-Aminoazobenzene	60-09-3	N.D.	N.D.	N.D.	N.D.	5
2,4-Xylidine※	95-68-1	N.D.	N.D.	N.D.	N.D.	5
2,6-Xylidine※	87-62-7	N.D.	N.D.	N.D.	N.D.	5

Test Report

Report No. A2220158821102

Page 28 of 39

		Result	(mg/kg)	MDL
Tested Item(s)	CAS No.	083	092+093+097	(mg/kg)
4-Aminodiphenyl	92-67-1	N.D.	N.D.	5
Benzidine	92-87-5	N.D.	N.D.	5
4-Chloro-O-Toluidine	95-69-2	N.D.	N.D.	5
2-Naphthylamine	91-59-8	N.D.	N.D.	5
O-Aminoazotoluene	97-56-3	N.D.	N.D.	5
2-Amino-4-Nitrotoluene	99-55-8	N.D.	N.D.	5
P-Chloroaniline	106-47-8	N.D.	N.D.	5
2,4-Diaminoanisole	615-05-4	N.D.	N.D.	5
4,4'-Diaminodiphenylmethane	101-77-9	N.D.	N.D.	5
3,3'-Dichlorobenzidine	91-94-1	N.D.	N.D.	5
3,3'-Dimethoxybenzidine	119-90-4	N.D.	N.D.	5
3,3'-Dimethylbenzidine	119-93-7	N.D.	N.D.	5
3,3'-Dimethyl- 4,4'Diaminodiphenylmethane	838-88-0	N.D.	N.D.	5
P-Cresidine	120-71-8	N.D.	N.D.	5
4,4'-Methylene- Bis(2-Chloroaniline)	101-14-4	N.D.	N.D.	5
4,4'-Oxydianiline	101-80-4	N.D.	N.D.	5
4,4'-Thiodianiline	139-65-1	N.D.	N.D.	5
O-Toluidine	95-53-4	N.D.	N.D.	5
2,4-Toluylenediamine	95-80-7	N.D.	N.D.	5
2,4,5-Trimethylaniline	137-17-7	N.D.	N.D.	5
O-Anisidine	90-04-0	N.D.	N.D.	5
P-Aminoazobenzene	60-09-3	N.D.	N.D.	5
2,4-Xylidine※	95-68-1	N.D.	N.D.	5
2,6-Xylidine※	87-62-7	N.D.	N.D.	5

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Requirement: \leq 30mg/kg
- Results shown of additional Amines 2,4-Xylidine and 2,6-Xylidine are reported for reference only.
- "X" indicates the item(s)/method(s) is (are) not in UKAS accreditation scope.
- Result(s) shown of tested component(s) 093 is/are based on resubmitted part materials.



Report No. A2220158821102

Page 29 of 39

▼ Phthalates in plasticized materials

As specified in entry 51 & entry 52, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendment No.552/2009 & No. 2015/326 & (EU) 2018/2005, method(s) EN 14372:2004 was/were used, and the item(s) was/were analyzed by GC-MS.

		Result (mg/kg)			.
Tested Item(s)	001+002 +003	005+006 +007	008+009	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+ DIBP)	N.D.	N.D.	N.D.		1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	N.D.	50	
Di-n-octyl Phthalate (DNOP)	N.D.	N.D.	N.D.	30	
Diisodecyl Phthalate (DIDP)	N.D.	N.D.	N.D.	50	
SUM(DINP+DNOP+DIDP)	N.D.	N.D.	N.D.		1000

		Result (mg/kg)		.	
Tested Item(s)	010	011	014+015 +016	<u>MDL</u> (mg/kg)	Limit (mg/kg)
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+ DIBP)	N.D.	N.D.	N.D.		1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	N.D.	50	
Di-n-octyl Phthalate (DNOP)	N.D.	N.D.	N.D.	30	
Diisodecyl Phthalate (DIDP)	N.D.	N.D.	N.D.	50	
SUM(DINP+DNOP+DIDP)	N.D.	N.D.	N.D.		1000

Test Report

Report No. A2220158821102

Page 30 of 39

		Result (mg/kg)	MDI	Limit	
Tested Item(s)	069+070	072+073	074+080	<u>MDL</u> (mg/kg)	Limit (mg/kg)
	+071	072+073	074+080	(mg/kg)	(mg/kg)
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+DIBP)	N.D.	N.D.	N.D.		1000

Tested Item(s)		Result (mg/kg)	MDL	<u>Limit</u>	
<u>rested ttem(s)</u>	075	076	077+078	(mg/kg)	(mg/kg)
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+DIBP)	N.D.	N.D.	N.D.		1000

Tested Item(s)		Result (mg/kg)	<u>MDL</u>	<u>Limit</u>	
<u>rested item(s)</u>	079	081	082	(mg/kg)	(mg/kg)
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+DIBP)	N.D.	N.D.	N.D.		1000

Tested Item(s)	Result (mg/kg)	MDL	<u>Limit</u>
Tested Item(s)	089	(mg/kg)	(mg/kg)
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	30	1000
SUM(DEHP+DBP+BBP+ DIBP)	N.D.		1000
Diisononyl Phthalate (DINP)	N.D.	50	
Di-n-octyl Phthalate (DNOP)	N.D.	30	
Diisodecyl Phthalate (DIDP)	N.D.	50	
SUM(DINP+DNOP+DIDP)	N.D.		1000

Test Report

Report No. A2220158821102

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%
- The limit for composite test should be divided by the mixed number.
- Method EN 14372:2004 was accredited by UKAS on six phthalates (DEHP, DBP, BBP, DINP, DIDP, DNOP) test in this report.

▼<u>Lead and its compounds</u>※

As specified in entry 63, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendments No.836/2012 & No.2015/628, method(s) US EPA 3052:1996 & US EPA 6010D:2018 was/were used, and the item(s) was/were analyzed by ICP-OES.

Tested Item(s)	<u>Result</u> (mg/kg)		MDL	<u>Limit</u>	
<u>rested item(s)</u>	001+002+003	005+006+007	008+009	(mg/kg)	(mg/kg)
Lead (Pb)	N.D.	N.D.	N.D.	2	500

Tested Item(s)		Result (mg/kg)	MDL	<u>Limit</u>	
<u>rested tient(s)</u>	010	011	014+015+016	014+015+016 (mg/kg)	
Lead (Pb)	N.D.	N.D.	N.D.	2	500

Tested Item(s)		Result (mg/kg)	g) <u>MDL</u>		<u>Limit</u>
<u>rested hem(s)</u>	017	018+019+020	021+022+023	(mg/kg)	(mg/kg)
Lead (Pb)	N.D.	N.D.	N.D.	2	500

Tested Item(s)	Result (mg/kg)			MDL	<u>Limit</u>
Tested Item(s)	024+025+026	027	028	(mg/kg)	(mg/kg)
Lead (Pb)	N.D.	N.D.	N.D.	2	500

Tested Item(s)		Result (mg/kg)	MDL	<u>Limit</u>	
Tested Item(s)	029	030	031+032+033	(mg/kg)	(mg/kg)
Lead (Pb)	N.D.	N.D.	N.D.	2	500

Tested Item(s)	<u>Result</u> (mg/kg)		MDL	<u>Limit</u>	
Tested Item(s)	034+035+036	037+038+039	040+041+042	(mg/kg)	(mg/kg)
Lead (Pb)	N.D.	N.D.	N.D.	2	500

Page 31 of 39



eport No. A2220158821102								
Tested Item (s)		Result (mg/kg)		MDL	<u>Limit</u>			
Tested Item(s)	043+044+045	046+047	049+050+051	(mg/kg)	(mg/kg)			
Lead (Pb)	N.D.	N.D.	N.D.	2	500			
T ₁ = (-)	MDL	Limit						
Tested Item(s)	052+053+054	052+053+054 055+056+057 058+059+060		(mg/kg)	(mg/kg)			
Lead (Pb)	N.D.	N.D. N.D. N.D.		2	500			
	·		· · ·					
T ₁ = (-)		Result (mg/kg)			<u>Limit</u>			
Tested Item(s)	061+062+063	064+065	066+067	(mg/kg)	(mg/kg)			
Lead (Pb)	N.D.	N.D. N.D. N.D.		2	500			
		•	· · · · · ·					
T 1 It		Result (mg/kg)			<u>Limit</u>			
Tested Item(s)		068			(mg/kg)			
					+			

Tested Item(s)	Result	MDL	<u>Limit</u>	
Tested Item(s)	089	090+091	(mg/kg)	(mg/kg)
Lead (Pb)	15	N.D.	2	500

N.D.

Remark:

Lead (Pb)

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- The limit for composite test should be divided by the mixed number. -
- "X" indicates the item(s)/method(s) is (are) not in UKAS accreditation scope. _

2

500



Report No. A2220158821102

Page 33 of 39

6) EN IEC 62115:2020+A11:2020 Electric toys - Safety

V Electric toys – Safety

As Specified in European Standard on Safety of Electric Toys EN IEC 62115:2020+A11:2020 .

<u>Clause</u>	Description	Assessment
1	Scope	
2	Normative references	
3	Terms and definitions	
4	General requirement	
5	General conditions for the tests	
6	Criteria for reduced testing	
7	Marking and instructions	Pass
8	Power input	N/A
9	Heating and abnormal operation	Pass
10	Electric strength	Pass
11	Electric toys used in water, electric toys used with liquid and electric toys	
	cleaned with liquid	N/A
12	Mechanical strength	Pass
13	Construction	Pass
14	Protection of cords and wires	Pass
15	Components	Pass
	Remark 1: Clause 15.2 has been assessed in clause 15. No certificate of	See Remark 1
	compliance was provided by the applicant. Applicant needs to ensure that	
	other components as specified in clause 15.1.1 comply with the safety	
	requirements as specified in the relevant standards and meet the national	
	deviation requirement of the importing countries.	
16	Screws and connections	Pass
17	Clearances and creepage distances	Pass
18	Resistance to heat and fire	Pass



Report No. A2220158821102

<u>Clause</u>	Description	Assessm
19	Radiation and similar hazards	See Rema
	Remark 2: This report only covers the essential safety requirements	
	concerning electrical properties on the safety of toys and in order to	
	comply with EN IEC 62115:2020+A11:2020, electric toys shall not emit	
	harmful optical radiation or harmful electromagnetic radiation due to their	
	operation in normal use, and also have to comply with Annex E for lasers	
	and or light emitting diodes (LED) or UV emitting lamps.	

Abbreviation: N/A = Not Applicable

Note:

- Result(s) shown of tested clause(s) (7, 15) is/are based on resubmitted sample(s)/part material(s).

7) Color Fastness to Rubbing(EN ISO 105-X12:2016)

Tested Item(s)	Test Result(grade)				Applicant's Dequirement(grade)	
Tested Item(s)	018	019	020	021	Applicant's Requirement(grade)	
Dry	4-5	4-5	4	4		
Wet	4	4	4	4		

Tested Item(s)	Test Result(grade)				Amplicant's Desuinement(and a)
	022	023	024	025	Applicant's Requirement(grade)
Dry	4	4-5	4	4	
Wet	4	4	4-5	3-4	

Tested Item(s)	Test Result(grade)				Amplicant's Desuinement(and de)
	026	027	028	029	Applicant's Requirement(grade)
Dry	4	4	4-5	4-5	
Wet	4	4	4-5	4-5	

Tested Item(s)	Т	est Result(grade	A	
	030	031	037	Applicant's Requirement(grade)
Dry	4-5	4	4	
Wet	4-5	4	4-5	

Page 34 of 39

<u>ment</u>

hark 2



Tested Item(s)	Test Rest	ılt(grade)	Amiliaant's Deguinement(anda)
	004	005	Applicant's Requirement(grade)
Dry	4-5	4-5	
Wet	4	4	

Tested Item(s)	Test Rest	ult(grade)	Applicant's Requirement(grade)
	092	093	
Dry	4-5	4-5	
Wet	4	4-5	

Remark:

- Result(s) shown of tested component(s) 093 is/are based on resubmitted part materials.

Tested Sample/Part Description

- 001 Black plastic(eyes, except Polaris AD/Polaris B&mouth, Sun)
- 002 White plastic(nose,Moon)
- 003 Red plastic(nose,Jupiter)
- 005 Flowerness plastic film(hat,Uranus)
- 006 Silver plastic thread(hair,Comet)
- 007 Black PVC(eyelid, Moon)
- 008 Silver hot stamping fabric(hat,Saturn)
- 009 Silver hot stamping fabric(foot,Mercury)
- 010 Silver plastic embroidery(foot,Mercury)
- 011 White coating (eyes, Pluto&foot, Mercury)
- 014 White flocking with adhesive(nose,Moon)
- 015 Black flocking with adhesive(mouth,Sun)
- 016 Red flocking with adhesive(nose,Jupiter)
- 017 White fabric with multi-color printing(label)
- 018 White plush with multi-color printing(main,Charon)
- 019 White plush with multi-color printing(main,Pluto)
- 020 White plush with brown red printing(main,Mars)
- 021 White plush with yellow/light brown printing(main,Venus)
- 022 White plush with multi-color printing(main/limbs,Planet)
- 023 White plush with light blue/ blue/black printing(main,Neptune)
- 024 White plush with light brown/beige printing(main,Saturn)
- 025 White plush with grey/light grey printing(main,Mercury)

Test Report

Report No. A2220158821102

- 026 White plush with multi-color printing(main,Jupiter)
- 027 White plush with grey/grey green printing(main,Moon)
- 028 Yellow/red/orange long plush(main,Sun)
- 029 Blue/white long plush(main,Polaris AD/Polaris B)
- 030 Yellow/white/orange long plush(main,Polaris)
- 031 Grey long plush(main,Comet)
- 032 Light yellow plush(limbs,Pluto)
- 033 Light blue plush(limbs,Polaris AD/Polaris B)
- 034 Grey plush(limbs,Comet)
- 035 Blue plush(limbs,Neptune)
- 036 Light brown plush(limbs,Venus)
- 037 Blue green plush(main,Uranus)
- 038 Beige brown plush(limbs,Saturn)
- 039 Beige plush(limbs,Polaris)
- 040 Red plush(foot,Mercury)
- 041 Light grey plush(limbs,Moon/Jupiter)
- 042 Orange yellow plush(limbs,Sun)
- 043 White long plush(hair,Comet)
- 044 White plush(limbs,Charon)
- 045 White long plush(hair,Mars)
- 046 White plush(foot,Mercury)
- 047 Yellow plush(nose,Polaris)
- 049 White woven with white thread(velcro of hook and loop,Polaris)
- 050 White fabric(lining,Polaris)
- 051 White mesh fabric(foot,Mercury)
- 052 Dark grey embroidery(foot,Charon/Pluto)
- 053 Black embroidery(cxcept Sun/Neptune)
- 054 Red embroidery(mouth,Pluto/Comet)
- 055 Light blue embroidery(foot,Polaris AD/Polaris B)
- 056 Brown red embroidery(foot,Mars)
- 057 Grey green embroidery(foot,Venus)
- 058 Dark pink embroidery(mouth,Venus)
- 059 Blue embroidery(foot,Neptune)
- 060 Dark blue embroidery(foot,Planet)
- 061 Blue green embroidery(foot,Uranus)
- 062 Light brown embroidery(foot,Saturn/Jupiter)
- 063 Grey embroidery(foot,Moon)

Test Report

Report No. A2220158821102

Page 37 of 39

- 064 Orange embroidery(foot,Sun) 065 Light grey embroidery(foot,Comet) 066 Yellow embroidery(nose,Polaris) 067 Light yellow embroidery(foot,Polaris) 068 Silver metal(screw of battery box, Polaris) 069 Transprent plastic(eye pad, except Polaris AD/Polaris B&nose pad, Jupiter&mouth pad, Sun) 070 Beige plastic(switch of foot, Polaris) 071 Dull white plastic(battery box, Polaris) 072 Red PVC(electric wire, Polaris) 073 Black PVC(electric wire, Polaris) 074 White PVC(electric wire, Polaris) 075 Transparent dry glue(joint of LED, Polaris) 076 Transparent LED(Polaris) 077 Black plastic(switch of foot, inside, Polaris) 078 White plastic(battery box, inside, Polaris) 079 Transparent plastic(gasket of battery box, inside, Polaris) 080 Grey PVC(electric wire, Polaris) 081 Brown PCB with green and white coatings(PCB,inside) 082 Translucent dry glue(on PCB,inside) 083 White fabric with multi-color coating(label,Neptune/Planet/Mercury/Comet) 084 Red plush with white coating(foot,Mercury) 085 Black plastic with white coating(eyes,Pluto) 086 White plastic with white flocking and adhesive(nose,Moon) 087 Black plastic with black flocking and adhesive(mouth,Sun) 088 Red plastic with red flocking and adhesive(nose,Jupiter) 089 Black plastic(snap-fastener) 090 White tricot with multi-color printing(pattern) 091 White fabric with multi-color printing(label) 092 Black plush with black thread(main)
 - 093 orange mesh fabric(lining)
 - 094 White tricot(eyes)
 - 095 White embroidery
 - 096 Black embroidery
 - 097 Black cord



Report No. A2220158821102

Page 38 of 39

Photo(s) of the sample(s)







Report No. A2220158821102

Page 39 of 39



Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. Company Name and Address shown on Report, the sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***