

Report No.: **158290414a 001**

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**Client:** ONE FOR FUN LIMITED

**Contact Information:** 3-5 Cambuslang Way, Gateway Office Park, Cambuslang, Glasgow, G32 8ND

**Manufacturer's name:** USD025

**Test item(s):** Toys

**Identification/  
Model No(s):** Rainbow Scooter With Flashing Wheels  
Item no.: SV20891

**Sample obtaining method:** Sending by customer

**Condition at delivery:** Test item complete and undamaged.

**Sample Receiving date:** 2024-05-13

**Testing Period:** 2024-05-14 to 2024-05-28

**Place of testing:** Chemical laboratory Hong Kong, Toys laboratory Hong Kong

**Test Specification:**

Please refer to "Test Result Summary List" on page 2 for details

**Other information:**

Country of Origin: China

Country of Destination: EU / UK

The provided age grade of the item(s) : Not Provided

The appropriate age grade of the item(s) : Not Requested (by client)

As per client request, the item(s) was/ were tested for the age of over 5 years.

Packaging provided: No

For and on behalf of  
TÜV Rheinland Hong Kong Ltd.



Amenda Yung/  
Senior CS Manager

2024-06-07

Date

Name/Position



Wong Yiu Tong , Tommy/  
Senior Lab Manager

2024-06-07

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

**Test Result Summary :****Test Specification:****Test result:**

- |   |      |
|---|------|
| 1 EN 71-1:2014+A1:2018 Mechanical and physical properties<br>(As per client request, Clause 7 - Warnings and instructions was excluded in this test report)                             | PASS |
| 2 EN 71-2:2020 Flammability   | PASS |
| 3 EN 71-3:2019+A1:2021 Migration of 19 Elements   | PASS |
| 4 Total Cadmium Content in accordance to: REACH regulation (EC) No. 1907/2006 Annex XVII Item 23 and its amendments   | PASS |
| 5 REACH regulation (EC) No. 1907/2006 and its amendment regulations on Annex XVII entry 51 and entry 52 : Phthalates  | PASS |
| RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment Directive (EU) 2015/863: Phthalates | PASS |

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**Material List:**

Item: Rainbow Scooter With Flashing Wheels

Item no.: SV20891

Material No.	Material	Color	Location
M001	Whole Product	Multicolor	Whole Product
M002	Coating	Silvery Grey	Main Body
M003	Plastic	Red	Wheel
M004	Plastic	Green	Wheel
M005	Plastic	Blue	Lock, Scooter component
M006	Plastic	Black	Front Wheel Cover
M007	Plastic	Yellow	Handle, Clamp
M008	Plastic	Milky White	O Ring
M009	Plastic	Translucent	Lock of Front Pole
M010	Plastic	Transparent	Tire of Wheel
M011	Plastic	Green	Foam Handle
M012	Plastic	Deep Pink	Foam Handle
M013	Plastic + coating + adhesive	Transparent + Multicolor + Adhesive	Logo Sticker
M014	Plastic + printing + adhesive	Transparent + Multicolor + White + Adhesive	Sticker of Front Pole
M015	Plastic + printing + adhesive	Transparent + Multicolor + White + Adhesive	Slip-proof Sticker of Stand Board
M016	Plastic + Textile	White + Black	Elastic Cord of Handle
M017	Plastic	Transparent	LED

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**1. EN 71-1:2014+A1:2018 Mechanical and physical properties**

Test No:	T001
Material No:	M001
<b>4. General requirements</b>	
4.1 Material cleanliness	PASS
4.7 Edges	PASS
4.8 Points and metallic wires	PASS
4.15 Toys intended to bear the mass of a child	PASS
<b>7. Warnings, markings and instructions for use</b>	
7.1 General	Not Conducted
7.2 Toys not intended for children under 36 months	Not Conducted
7.3 Latex balloons	Not Conducted
7.4 Aquatic toys	Not Conducted
7.5 Functional toys	Not Conducted
7.6 Hazardous sharp functional edges and points	Not Conducted
7.7 Projectile toys	Not Conducted
7.8 Imitation protective masks and helmets	Not Conducted
7.9 Toy kites	Not Conducted
7.10 Roller skates, inline skates, skateboards and certain other ride-on toys	Not Conducted
7.11 Toys otherwise intended to be strung across a cradle, cot, or perambulator	Not Conducted
7.12 Liquid-filled teethingers	Not Conducted
7.13 Percussion caps specifically designed for use in toys	Not Conducted
7.14 Acoustics	Not Conducted
7.15 Toy bicycles	Not Conducted
7.16 Toys intended to bear the mass of a child	Not Conducted
7.17 Toys comprising monofilament fibres	Not Conducted
7.18 Toy scooters	Not Conducted
7.19 Rocking horses and similar toys	Not Conducted
7.20 Magnetic/ electrical experimental sets	Not Conducted

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7.21 Toys with electrical cables exceeding 300 mm in length	Not Conducted
7.22 Toys with cords or chains intended for children of 18 months and over but under 36 months	Not Conducted
7.23 Toys intended to be attached to a cradle, cot or perambulator	Not Conducted
7.24 Sledges with cords for pulling	Not Conducted
7.25 Flying toys	Not Conducted
7.26 Improvised projectiles	Not Conducted

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

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**2. EN 71-2:2020 Flammability****Test result:**

Test No:	T001
Material No.	M001
4.1 General requirements	PASS

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

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**3. EN 71-3:2019+A1:2021 Migration of 19 Elements**

Test Method: with reference to EN 71-3:2019+A1:2021, analyzed by ICP-OES / ICP-MS / LC-ICP-MS/IC-UV/GC-MS.

**3) For scraped-off toy materials:**
**Test Result:**

Test No.				T001	T002	T003
Material No.				M002	M003	M004
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	311	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	246	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	7.0	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	2.6	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	21.9	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin^	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	26	< RL	< RL
Mass of trace amount	mg	--	--	-	-	-

**Abbreviation:**

- < = less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- ^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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**Test Result:**

Test No.				T004	T005	T006
Material No.				M005	M006	M007
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	-	-	-

**Abbreviation:**

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- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal



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**Test Result:**

Test No.				T007	T008	T009
Material No.				M008	M009	M010
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	36	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	3.0	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	32	< RL	< RL
Mass of trace amount	mg	--	--	-	-	-

**Abbreviation:**

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- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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**Test Result:**

Test Parameter	Unit	RL	Test No.	T010	T011	T012
			Material No.	M011	M012	M013
			Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	13
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	5.2
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	3.2	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	262	650	12
Mass of trace amount	mg	--	--	-	-	-

**Abbreviation:**

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- mg/kg denotes milligram per kilogram
- mg denotes milligram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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**Test Result:**

Test No.				T013	T014	T015
Material No.				M014	M015	M016
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	11
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	11.1
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	4.6
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	173
Mass of trace amount	mg	--	--	-	-	-

**Abbreviation:**

- < = less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

**Remark:**

- \* Categorization of toys materials is based on the material texture. According to point H.11 of Annex H to EN 71-3:2019+A1:2021 / BS EN 71-3:2019+A1:2021, cosmetic materials with dry, brittle, powder like or pliable texture such as lipstick and eyeshadow are considered as category I materials. However, as a reminder, it cannot preclude the possibility that some national enforcement authorities might take a more stringent action to treat cosmetic materials as sticky and evaluate according to category II requirement as they are intended to be applied on skin and retained for long time.
- \*\* For any test portion containing grease, oil, wax or similar material, such materials would have been removed with isooctane by using Soxhlet extraction.
- \*\*\*\* The highlighted result was found to be more than the maximum permissible limit.
- \*\*\*\*\* According to EN 71-3:2019+A1:2021, if the weight of a test portion of toy material is less than 10mg, the analysis of migration of certain elements would not be required. If the weight of a test portion of toy material is between 10mg and 100mg, the analytical results would be calculated as though 100mg of the test portion had been used.

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**4.Total Cadmium Content**

Test Method: Acid digestion, analyzed by AAS/ ICP-OES

**Test Result:**

Test No.	Material No.	Test Parameter	Unit	RL	Test Result
T001	M002	Cadmium	mg/kg	10	< RL
T002	M003 + M004 + M005	Cadmium	mg/kg	10	< RL
T003	M006 + M007 + M008	Cadmium	mg/kg	10	< RL
T004	M009	Cadmium	mg/kg	10	< RL
T005	M010 + M011 + M012	Cadmium	mg/kg	10	< RL
T006	M013	Cadmium	mg/kg	10	< RL
T007	M014	Cadmium	mg/kg	10	< RL
T008	M015	Cadmium	mg/kg	10	< RL
T009	M016	Cadmium	mg/kg	10	< RL
T010	M017	Cadmium	mg/kg	10	< RL

**Abbreviation:** < = less than  
 RL = Reporting Limit  
 mg/kg = milligram per kilogram

**Remark:**

- \* Requirements for Cadmium content according to Annex XVII Entry 23 of Regulation (EC) No 1907/2006 (REACH) and its amendments
- Mixtures and articles produced from plastic material < 0.01 % (100 mg/kg)
  - Coated / painted articles < 0.1 % (1000 mg/kg)
  - Jewellery components < 0.01 % (100 mg/kg)
  - Paints and varnishes (excluding the applicable exemptions) < 0.01 % (100 mg/kg)

Swiss requirements for cadmium content according to the Switzerland Chemikalien-Risikoreduktions-Verordnung- ChemRRV, 814.81

- Mixtures and articles produced from plastic material < 0.01 % (100 mg/kg)
- Articles / objects treated with paints / coating with cadmium is prohibited
- Paints and varnishes < 0.01 % (100 mg/kg)

Duty to communication, for SVHC according to Regulation (EC) No 1907/2006 (REACH) and Directive 2008/98/EC (Waste Framework Directive, WFD), if the concentration of Cadmium in an article is more than 0.1 %.

- \*\* The highlighted result was found to be more than the maximum permissible limit.

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**5. Phthalates content**

Test Method: Ref. to CPSC-CH-C1001-09.4

**Test Result:**

Test No. Material No.				T001 M002	T002 M003 + M004 + M005	T003 M006 + M007 + M008
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	< RL	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL	< RL	< RL
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.01	<RL	<RL	<RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	< RL	< RL	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	< RL	< RL	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.01	< RL	< RL	< RL
Sum (DINP+ DIDP+ DNOP)	--	%	0.01	<RL	<RL	<RL
Conclusion: REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51 and 52				Pass	Pass	Pass

Test No. Material No.				T004 M009	T005 M010 + M011 + M012	T006 M013
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	0.01	0.01
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL	< RL	< RL
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.01	<RL	0.01	0.01
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	< RL	< RL	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	< RL	< RL	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.01	< RL	< RL	< RL
Sum (DINP+ DIDP+ DNOP)	--	%	0.01	<RL	<RL	<RL
Conclusion: REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51 and 52				Pass	Pass	Pass

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Test No.				T007	T008	T009
Material No.				M014	M015	M016
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	< RL	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL	< RL	< RL
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.01	<RL	<RL	<RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	< RL	< RL	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	< RL	< RL	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.01	< RL	< RL	< RL
Sum (DINP+ DIDP+ DNOP)	--	%	0.01	<RL	<RL	<RL
Conclusion: REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51 and 52				Pass	Pass	Pass

Test No.				T010
Material No.				M017
Test Parameter	CAS NO	Unit	RL	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.01	<RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.01	< RL
Sum (DINP+ DIDP+ DNOP)	--	%	0.01	<RL
Conclusion: REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51 and 52				Pass

**Abbreviation:** < = less than  
 RL = Reporting Limit  
 % = percentage

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**Test method:** Ref. to IEC 62321-8:2017

**Test result**

Test No.				T001	T002	T003
Material No.				M002	M003 + M004 + M005	M006 + M007 + M008
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	< RL	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL	< RL	< RL
Conclusion: RoHS (recast)				Pass	Pass	Pass

Test No.				T004	T005	T006
Material No.				M009	M010 + M011 + M012	M013
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	0.01	0.01
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL	< RL	< RL
Conclusion: RoHS (recast)				Pass	Pass	Pass

Test No.				T007	T008	T009
Material No.				M014	M015	M016
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	< RL	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL	< RL	< RL
Conclusion: RoHS (recast)				Pass	Pass	Pass

Test No.				T010
Material No.				M017
Test Parameter	CAS NO	Unit	RL	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL
Conclusion: RoHS (recast)				Pass

**Abbreviation:** < = less than  
 RL = Reporting Limit  
 % = percentage

**Remark:**

- Requirement of REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51 and



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52:

Parameter	Unit	Maximum Permissible Limit
Plasticised materials in toys and childcare articles, or other articles# place on the market;		
Diethylhexyl phthalate (DEHP) Dibutyl phthalate (DBP) Benzylbutyl phthalate (BBP) Diisobutyl phthalate (DIBP)	%	0.1 (individually or sum of the four phthalates) Effective after 7 July 2020.
Plasticised materials in children's toy and childcare articles which can be placed in the mouth by children:		
Di-n-octyl phthalate (DNOP) Diisodecyl phthalate (DIDP) Diisononyl phthalate (DINP)	%	0.1 (sum of the three phthalates)

Denote:

# Examples of articles that are excluded from the restriction

- 1) Articles exclusively for industrial / agricultural use / use in open air, provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin (i.e. Continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.)
  - 2) Aircraft and motor vehicles (Directive 2007/46/EC) placed on the market before 7 January 2024, or articles for use exclusively in the maintenance or repair of them
  - 3) Measuring devices for laboratory use;
  - 4) Food contact material and articles within the scope of Regulation (EC) No 1935/2004 or Commission Regulation (EU) No 10/2011
  - 5) Medical devices (Directive 90/385/EEC, 93/42/EEC or 98/79/EC)
  - 6) Electrical and electronic equipment within the scope of Directive 2011/65/EU
  - 7) Immediate packaging of medicinal products (Regulation (EC) No 726/2004, Directive 2001/82/EC or Directive 2001/83/EC)
- Single component with an amount below reporting limit was not considered by the calculation of the sum. In the case of all phthalates were not detected, the result is stated <RL.
- Requirement of RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU as amended by (EU) 2015/863:

Parameter	Unit	Maximum Permissible Limit
Homogeneous materials in in electrical and electronic equipment (EEE) #		
Diethylhexyl phthalate (DEHP) Dibutyl phthalate (DBP) Benzylbutyl phthalate (BBP) Diisobutyl phthalate (DIBP)	%	0.1 (Each)

Denote:

# Examples of articles that are excluded from the restriction

- 1) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.



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- 2) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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Sample Photos



- END -

