

TEST REPORT

APPLICANT : Fujian Zhangping D-road Forestry Co.,Ltd

ADDRESS : Fushan Industry District, Zhangping City, Fujian, China,
364400

SAMPLE DESCRIPTION : Kid's Sandbox

ITEM NO. : 2536

MANUFACTURER : Fujian Zhangping D-road Forestry Co.,Ltd

COUNTRY OF ORIGIN : China

AGE REQUESTED ON APPLICATION FORM : 3-7years

LABELED AGE GRADE : 3-7years

AGE GRADE APPLIED IN TESTING : 3-7years

LAB RECOMMENDED AGE GRADE : 3+

SAMPLE RECEIVED DATE : 13-Sep-2023

FURTHER INFORMATION DATE : 30-Oct-2023

TURN AROUND TIME : 13-Sep-2023 to 30-Oct-2023

REVISED DATE : 09-Nov-2023

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Physical and Mechanical Hazards	ASTM F963-17	Pass
Flammability of Toys	ASTM F963-17	Pass
Heavy Metals	ASTM F963-17	Pass
Total Lead Content in Substrate	US CPSIA, Section 101	Pass
Total Lead Content in Paint / Surface Coating	US CPSIA, Section 101	Pass
Phthalates Content	CPSC 16 CFR part 1307	Pass
Physical and Mechanical Hazards	EN71 Part 1:2014+A1:2018	Pass
Labeling Requirement	Directive 2009/48/EC	Pass
Labeling Requirement for United Kingdom	The Toys (Safety) Regulations 2011 and The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019	Pass
Flammability of Toys	EN71 Part 2:2020	Pass
Migration of Certain Elements	EN71 Part 3:2019+A1:2021	Pass
Safety of toys part 8: Activity toys for domestic use	EN71-8:2018	Pass

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. Unless otherwise stated from the customer, regulation or the standard specification, Eurofins will consider the measurement uncertainty as calculated by our laboratory and apply according to ILAC G8:09/2019-(binary acceptance base on guard band). If you happen to have any comments, please do it by sending email to info.hz@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint@eurofins.com and referring to this report number.

Remark :

This report cancels and supersedes report number EFHZ23090738-CG-01 issued on Oct 30, 2023.
Modification description: Per client's request, add lab recommended age grade in the revised report.

Eurofins (Hangzhou) contact information

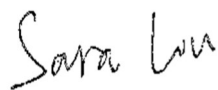
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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of

Eurofins Product Testing Service (Shanghai) Co., Ltd. Hangzhou Branch



Sara Liu
Lab Manager



SAMPLE PHOTO(S)



A

EFHZ23090738-CG-01+Rev1

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Quote From	Sample No.
1	Grey brown coating with wood	EFHZ23090736-CG-01	A
2	Green coating with wood	/	A
3	White coating with wood	EFHZ23090741-CG-01	A
4	Light blue coating with wood	EFHZ23090741-CG-01	A
5	Black coating with wood	EFHZ23090742-CG-01	A
6	Red coating with wood	EFHZ23090741-CG-01	A
7	Green plastic sheet	EFHZ23090736-CG-01	A
8	Red plastic (bucket)	/	A
9	White plastic (bucket)	/	A
10	Black non-woven fabric	EFHZ23090742-CG-01	A
11	Natural color wood	EFHZ23090742-CG-01	A
12	Natural color plywood excluding coating	EFHZ23090741-CG-01	A
13	Golden plated metal screw/nut/gasket	EFHZ23090742-CG-01	A

TO BE CONTINUED

TEST RESULT

Physical and Mechanical Hazards

Test Request: As specified in Consumer Safety Specification ASTM F963-17

Section	Description	Result
4.1	Material Quality	P
4.3.7	Stuffing Materials	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	N/A
4.6.1	Toys that are intended for children under 36 months of age	N/A
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Toys that are intended for children over 36 months but less than 72 months	N/A
4.7	Accessible Edges	P
4.8	Projections	P
4.8.1	Bath Toy Projections	N/A
4.9	Accessible Points	P
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	P
4.12	Plastic Film	N/A
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	P
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearances, and Accessibility of Mechanisms	P
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys (exclude section 4.25.10 Battery-powered ride-on toys and section 4.25.11 Toys contain secondary cells or secondary batteries)	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding material	N/A
4.41	Toy Chests	N/A
5	Labeling Requirements	

TO BE CONTINUED

TEST RESULT

Section	Description	Result
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirements	P
5.4	Aquatic Toys	N/A
5.5	Crib and Playpen Toys	N/A
5.6	Mobiles	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled by an Adult	P
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges and Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19)	N/A
5.12	Toy Caps (16 CFR 1500.86 for Required Labeling)	N/A
5.13	Art Materials (16 CFR 1500.14(b)(8))	N/A
5.14	Electric Toys	N/A
5.15	Battery-Operated Toys	N/A
5.15.1	Battery-Powered Ride-On Toys	N/A
5.15.2	Button or Coin Cell Batteries	N/A
5.16	Promotional Materials	N/A
5.17	Magnets	N/A
6	Instructional Literature	
6.1	Definition and Description	P
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by an Adult	P
6.5	Battery-Operated Toys	N/A
6.6	Battery-Powered Ride-On Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
7	Producer's Markings	
7.1	Producer's or Distributor's Name and Address	P
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy Chests	N/A

Remark:

P - Pass

NA - Not Applicable

TO BE CONTINUED

TEST RESULT

Flammability of Toys

Test Request: As specified in ASTM F963-17, Section 4.2, testing procedure for materials other than textiles (excluding paper) used in toys is contained in Annex A5.

Sample	Limit	Result
A	0.1 inch/second	P

Remark:

P - Pass

TO BE CONTINUED

TEST RESULT

Heavy Metals

1) ASTM F963-17- Heavy Elements – Total Lead in Paint and Similar Surface-Coating Material (Clause 4.3.5.1(1))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result				
				1	2	3	4	5
Total Lead in Paint	mg/kg	90	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				6				
Total Lead in Paint	mg/kg	90	10	ND				

2) ASTM F963-17- Heavy Elements – Total Lead in Substrate Material (Clause 4.3.5.2(2) (a))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result				
				7	8	9	10	11
Total Lead in Substrate	mg/kg	100	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				12		13		
Total Lead in Substrate	mg/kg	100	10	ND		ND		

3) ASTM F963-17- Heavy Elements – Total Elements Content, Initial Screening for Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay(Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result				
				1	2	3	4	5
Total Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	295	189	156	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Tested Item(s)	Unit	Limit	MDL	Result				
				6	7	8	9	10
Total Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	11	ND	50	ND
Total Cadmium	mg/kg	75	5	ND	471*	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	20	ND	ND	ND
Total Lead	mg/kg	90	10	ND	108*	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result	
				11	12
Total Antimony	mg/kg	60	5	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND
Total Barium	mg/kg	1000	10	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND
Total Chromium	mg/kg	60	5	ND	ND
Total Lead	mg/kg	90	10	ND	ND
Total Mercury	mg/kg	60	5	ND	ND
Total Selenium	mg/kg	500	10	ND	ND

4) ASTM F963-17- Heavy Elements – Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.2 to 8.3.5 (excluding 8.3.5.5(3))

Tested Item(s)	Unit	Limit	MDL	Result				
				1	2	3	4	5
Soluble Antimony	mg/kg	60	5	NA	NA	NA	NA	NA
Soluble Arsenic	mg/kg	25	5	NA	NA	NA	NA	NA
Soluble Barium	mg/kg	1000	10	NA	NA	NA	NA	NA
Soluble Cadmium	mg/kg	75	5	NA	NA	NA	NA	NA
Soluble Chromium	mg/kg	60	5	NA	NA	NA	NA	NA
Soluble Lead	mg/kg	90	10	NA	NA	NA	NA	NA
Soluble Mercury	mg/kg	60	5	NA	NA	NA	NA	NA
Soluble Selenium	mg/kg	500	10	NA	NA	NA	NA	NA

Tested Item(s)	Unit	Limit	MDL	Result				
				6	7	8	9	10
Soluble Antimony	mg/kg	60	5	NA	ND	NA	NA	NA
Soluble Arsenic	mg/kg	25	5	NA	ND	NA	NA	NA
Soluble Barium	mg/kg	1000	10	NA	ND	NA	NA	NA
Soluble Cadmium	mg/kg	75	5	NA	ND	NA	NA	NA
Soluble Chromium	mg/kg	60	5	NA	ND	NA	NA	NA
Soluble Lead	mg/kg	90	10	NA	ND	NA	NA	NA
Soluble Mercury	mg/kg	60	5	NA	ND	NA	NA	NA
Soluble Selenium	mg/kg	500	10	NA	ND	NA	NA	NA

TO BE CONTINUED

TEST RESULT

Tested Item(s)	Unit	Limit	MDL	Result	
				11	12
Soluble Antimony	mg/kg	60	5	NA	NA
Soluble Arsenic	mg/kg	25	5	NA	NA
Soluble Barium	mg/kg	1000	10	NA	NA
Soluble Cadmium	mg/kg	75	5	NA	NA
Soluble Chromium	mg/kg	60	5	NA	NA
Soluble Lead	mg/kg	90	10	NA	NA
Soluble Mercury	mg/kg	60	5	NA	NA
Soluble Selenium	mg/kg	500	10	NA	NA

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

NA = Not Applicable

The analytical results were adjusted by subtracting analytical correction factor.

* On the initial analysis for soluble heavy metals content, any tested component of greater than the set limit, the result is inconclusive for the requirement and therefore were retested with soluble heavy metals analysis of ASTM F963-17, Sections 8.3.2 to 8.3.5 as specified in Section 8.3.1.3. The result herein is for reference only (show data), please refer to soluble heavy metals content analysis for the corresponding conclusive results.

According to Section 8.3.1.3, if results of total eight elements are below soluble limits for each element as prescribed in the table, the material can be considered to conform to requirements of 4.3.5.1(2) or 4.3.5.2(2)(b), or both, without further testing.

TO BE CONTINUED

TEST RESULT

Total Lead Content in Substrate

Test Request: Total lead in substrate as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101

Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3
The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result			
				7	8+9	11	12
Total Lead(Pb)	mg/kg	100	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				13			
Total Lead(Pb)	mg/kg	100	10	ND			

Remark:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Lead Content in Paint / Surface Coating

Test Request: Total lead in paint/ similar surface coatings as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101

Test Method: CPSC-CH-E1003-09.1

The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result			
				1	2	3	4
Total Lead (Pb)	mg/kg	90	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				5	6
Total Lead (Pb)	mg/kg	90	10	ND	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates as specified in CPSC 16 CFR part 1307.

Test Method: CPSC-CH-C1001-09.4

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1	2	3	4
Diisononyl phthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					5	6	7	8+9
Diisononyl phthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND

Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Physical and Mechanical Hazards

Test Request: As specified in European Standard on Safety of Toys EN71 Part 1:2014+A1 :2018

Section	Description	Result
4	General requirements	
4.1	Material cleanliness (by visual assessment)	P
4.2	Assembly	P
4.3	Flexible plastic sheeting	N/A
4.4	Toy Bags	N/A
4.5	Glass	N/A
4.6	Expanding Materials	N/A
4.7	Edges	P
4.8	Points and Metallic Wires	P
4.9	Protruding parts	P
4.10	Parts moving against each other	N/A
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
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15	Toys intended to bear the mass of a child	P
4.15.1	Toys propelled by the child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	P
4.15.5	Toys scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.17.1	General	N/A
4.17.2	All projectiles	N/A
4.17.3	Projectile toy with stored energy	N/A
4.17.4	Certain projectile toys without stored energy	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
4.20.2.1	General	N/A
4.20.2.2	Close-to-the-ear toys	N/A
4.20.2.3	Table-top or floor toys	N/A
4.20.2.4	Hand-held toys	N/A
4.20.2.5	Toys using headphones or earphones	N/A
4.20.2.6	Rattles	N/A
4.20.2.7	Squeeze toys	N/A
4.20.2.8	Pull-along or push toys	N/A
4.20.2.9	Percussion toys	N/A

TO BE CONTINUED

TEST RESULT

Section	Description	Result
4.20.2.10	Wind toys	N/A
4.20.2.11	Cap-firing toys	N/A
4.20.2.12	Voice toys	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
4.27.1	General	N/A
4.27.2	Rotors and propellers on flying toys	N/A
4.27.3	Rotors and propellers on remote controlled flying toys	N/A
5	Toys intended for children under 36 months	
5.1	General requirements	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	N/A
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	N/A
7.4	Aquatic toys	N/A
7.5	Functional Toys	N/A
7.6	Hazardous sharp functional edges and points	N/A
7.7	Projectiles toys	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy kites	N/A
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	N/A
7.11	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.12	Liquid-filled teethingers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toys bicycles	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy scooters	N/A

TO BE CONTINUED

TEST RESULT

Section	Description	Result
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/electrical experimental sets	N/A
7.21	Toy with electrical cables exceeding 300mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A
7.23	Toys intended to be attached to a cradle, cot or perambulator	N/A
7.24	Sledges with cords for pulling	N/A
7.25	Flying toys	N/A
7.25.1	Flying toys	N/A
7.25.2	Remote controlled flying toys	N/A
7.26	Improvised projectiles	N/A

Remark:

P - Pass

NA - Not Applicable

TO BE CONTINUED

TEST RESULT

Labeling Requirement

Test Request: Labeling requirement including Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification as specified in Directive 2009/48/EC
- Safety of toys

Labeling Content	Observation Result	Location	Conclusion
Washing/Cleaning Instruction	Not Applicable	/	/
CE Mark	Present, Correct form, CE marking (height >5.0 mm)	Product	Pass
Importer' s Name & Address	Present	Product	Pass
Manufacturer' s Name & Address	Present	Product	Pass
Product ID	Present	Product	Pass

TO BE CONTINUED

TEST RESULT

Labeling Requirement for United Kingdom

Test Request: Labeling requirement including Washing/Cleaning instruction, compliance marking, importer / manufacturer name and address, product identification as specified in The Toys (Safety) Regulations 2011 and The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019

Labeling Content	Observation Result	Location	Conclusion
Washing/Cleaning Instruction	Not Applicable	/	/
Compliance Marking	Present, Correct form, UKCA marking (height >5.0 mm)	Product	Pass
Importer' s Name & Address	Present	Product	Pass
Manufacturer' s Name & Address	Present	Product	Pass
Product ID	Present	Product	Pass

TO BE CONTINUED

TEST RESULT

Flammability of Toys

Test Request: As Specified in European Standard on Safety of Toys EN71 Part 2:2020

Section	Description	Result
4	Requirements	
4.1	General Requirements	P
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 (Sample was not tested if its maximum dimension is 150mm or less.)	N/A

Remark:

P - Pass

NA - Not Applicable

TO BE CONTINUED

TEST RESULT

Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN71 Part 3:2019+A1:2021.

Test Method: General elements, with reference to EN 71 Part 3:2019+A1:2021, analysis was performed by ICP-MS;
Extractable Chromium (VI), with reference to EN 71 Part 3:2019+A1:2021, analysis was performed by IC-ICP-MS/IC-UV/Vis;
Extractable organic tin, with reference to EN 71 Part 3:2019+A1:2021, analysis was performed by GC-MS.

Test Item(s):	Unit	Result							
		1	2	3	4	5	6	7	8
Category Type		III	III	III	III	III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	81	181	ND	ND	125	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	101	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	458	ND	98	57	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Chromium#2	mg/kg	-	-	-	-	ND	-	-	ND
Extractable Organic Tin#1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Extractable Chromium (III) (Cr III) #3	mg/kg	ND	ND	ND	ND	-	ND	ND	-
Extractable Chromium (VI) (Cr VI)	mg/kg	ND	ND	ND	ND	-	ND	ND	-

TO BE CONTINUED

TEST RESULT

Test Item(s):	Unit	Result			
		9	10	11	12
Category Type		III	III	III	III
Extractable Lead (Pb)	mg/kg	ND	ND	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND	ND	ND
Extractable Boron (B)	mg/kg	ND	ND	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND	ND	ND
Extractable Aluminum (Al)	mg/kg	ND	ND	ND	ND
Extractable Nickel (Ni)	mg/kg	ND	ND	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND	ND	ND
Extractable Chromium#2	mg/kg	ND	ND	0.023	ND
Extractable Organic Tin#1	mg/kg	ND	ND	ND	ND
Extractable Chromium (III) (Cr III) #3	mg/kg	-	-	-	-
Extractable Chromium (VI) (Cr VI)	mg/kg	-	-	-	-

Note:

- | |
|--|
| #1 - The migration of organic tin is expressed as tributyltin. |
| #2 - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI). |
| #3 - In particular Chromium (III) is calculated by subtracting the Chromium (VI) concentration from the total chromium concentration. |

Remarks:

mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not Detected, less than MDL

TO BE CONTINUED

TEST RESULT

Limits –MDL per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL
Category Type		I		II		III	
Extractable Lead (Pb)	mg/kg	2.0	1.0	0.5	0.2	23	10
Extractable Antimony (Sb)	mg/kg	45	5	11.3	1	560	10
Extractable Arsenic (As)	mg/kg	3.8	0.2	0.9	0.1	47	5
Extractable Barium (Ba)	mg/kg	1500	50	375	10	18750	50
Extractable Cadmium (Cd)	mg/kg	1.3	0.1	0.3	0.05	17	1
Extractable Mercury (Hg)	mg/kg	7.5	0.5	1.9	0.2	94	10
Extractable Selenium (Se)	mg/kg	37.5	2	9.4	1	460	10
Extractable Boron (B)	mg/kg	1200	50	300	10	15000	50
Extractable Cobalt (Co)	mg/kg	10.5	1	2.6	0.2	130	10
Extractable Manganese (Mn)	mg/kg	1200	50	300	10	15000	50
Extractable Strontium (Sr)	mg/kg	4500	50	1125	50	56000	50
Extractable Zinc (Zn)	mg/kg	3750	50	938	50	46000	50
Extractable Copper (Cu)	mg/kg	622.5	10	156	10	7700	50
Extractable Aluminum (Al)	mg/kg	2250	50	560	50	28130	50
Extractable Nickel (Ni)	mg/kg	75	5	18.8	2	930	10
Extractable Tin (Sn)	mg/kg	15000	50	3750	50	180000	50
Extractable Organic Tin	mg/kg	0.9	0.2	0.2	0.2	12	0.2
Extractable Chromium	mg/kg	-	0.02	-	0.005	-	0.02
Extractable Chromium (III) (Cr III)	mg/kg	37.5	2	9.4	1	460	10
Extractable Chromium (VI) (Cr VI)	mg/kg	0.02	0.02	0.005	0.005	0.053	0.02

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scrapped-off toy material

“-” = Not Regulated

TO BE CONTINUED

TEST RESULT

EN71-8:2018 Safety of toys part 8: Activity toys for domestic use

1. Description of tested sample: toy
2. Number to test sample: 1 Piece
3. Age group of the user: 3~7 year's old
4. Test result:

Clause	Test Method/ Requirement	Rating								
4	Requirements									
4.1	General									
4.1.1	Assembly Activity toys shall be assembled using self-locking mechanisms which, to avoid unintentional disassembling due to dynamic forces during use, may include spring washers and/or self-locking nuts.	Pass								
4.1.2	Static strength Activity toys other than swings and paddling pools, when tested according to 6.3.2 (strength of activity toys other than swings and paddling pools), shall not collapse such that they do not continue to comply with the relevant requirements of EN 71-1.	Pass								
4.1.3	Maximum height When measured from the ground, there shall be no part of the activity toy where the child is able to climb, sit or stand above a height of 2 500 mm	Pass								
4.1.4	Corners and edges Exposed edges shall be rounded. Corners and exposed edges on moving parts shall have a minimum radius of 3 mm. This requirement does not apply to swing elements with a mass of 1 000 g or less, the corners and edges of which shall be rounded.	Pass								
4.1.5	Protruding parts Protruding parts such as bolt ends, threaded bolt ends and other protrusions shall be recessed or be protected in such a way that they do not constitute a hazard to users of the equipment. This requirement is applicable when protrusions are situated on accessible moving parts and in places where the user is running, sliding, climbing, sitting or lying down.	Pass								
4.1.6	Diameter of ropes and other means of suspension When measured according to 6.8 (diameter of ropes and other means of suspension), ropes and other means of suspension shall have the following diameters: <table><tr><td>Ropes fixed at both ends</td><td>diameter between 16 mm and 45 mm</td></tr><tr><td>Ropes used in climbing nets and ladders</td><td>diameter between 10 mm and 45 mm</td></tr><tr><td>Free-hanging ropes fixed at upper end</td><td>diameter between 25 mm and 45 mm</td></tr><tr><td>Means of suspension for swing elements</td><td>minimum diameter/width 10 mm</td></tr></table>	Ropes fixed at both ends	diameter between 16 mm and 45 mm	Ropes used in climbing nets and ladders	diameter between 10 mm and 45 mm	Free-hanging ropes fixed at upper end	diameter between 25 mm and 45 mm	Means of suspension for swing elements	minimum diameter/width 10 mm	N/A
Ropes fixed at both ends	diameter between 16 mm and 45 mm									
Ropes used in climbing nets and ladders	diameter between 10 mm and 45 mm									
Free-hanging ropes fixed at upper end	diameter between 25 mm and 45 mm									
Means of suspension for swing elements	minimum diameter/width 10 mm									
4.1.7	Water accumulation Except when intended for water play, all parts of activity toys should be designed so that they do not accumulate water which could produce drowning hazard.	Pass								
4.2	Barriers, handrails and ladders and similar means of access to activity toys									
4.2.1	Barriers and handrails preventing a child from falling down (see A.5)	N/A								
4.2.2	Ladders and similar means of access to activity toys (see A.6)	N/A								
4.3	Entrapment									

TO BE CONTINUED

TEST RESULT

Clause	Test Method/ Requirement	Rating
4.3.1	Head and neck entrapment Activity toys shall be constructed so that any openings do not create head and neck entrapment hazards either by head first or feet first passage. Hazardous situations in which this type of entrapment can be encountered include the following: — completely bound openings through which a user may slide feet first or head first; — partially bound or V-shaped openings; — other openings (e.g. shearing or moving openings).	Pass
4.3.2	Entrapment of clothing and hair a) <i>Slides</i>, fireman's poles and roofs shall be constructed so that hazardous situations in which clothing or hair can be entrapped are not created. Such situations may be created by: 1) gaps or V-shaped openings in which parts of clothing can become entrapped while, or immediately before, the user is undergoing a forced movement; 2) protrusions; and 3) spindles/rotating parts. When tested according to 6.6 (toggle test), entrapment of the toggle or chain shall not occur. Application of the toggle test, as described in 6.6, is restricted to the free space, as practical experience has shown that natural material and connections between different parts can vary over time. b) <i>Slides</i> and fireman's poles shall be constructed so that openings located within the free space do not entrap the toggle or chain when tested according to 6.6 (toggle test). c) Roofs shall be constructed so that they do not entrap the toggle or chain when tested according to 6.6 (toggle test). d) Spindles and rotating parts shall have means of preventing entanglement of clothing or hair.	N/A
4.3.3	Entrapment of feet The requirement in 4.3.3 does not apply to nets for climbing or walking, or net bridges. Surfaces intended for standing, running or walking shall not contain any gaps likely to cause foot or leg entrapment. There shall be no gaps greater than 30 mm measured in one direction	Pass
4.3.4	Entrapment of fingers The requirements in 4.3.4 do not apply to weather-induced dry cracks in solid wood. Activity toys shall be constructed so that hazardous situations in which entrapment can occur are not created.	Pass
4.4	Stability of activity toys other than slides, swings and activity toys with crossbeams, and see-saws	
4.4.1	General Activity toys supplied with anchors which, according to the manufacturer's instructions, are intended to be permanently fixed (e.g. in concrete) when in use, shall not be subjected to stability tests. Activity toys supplied with removable ground anchors shall be tested with anchors fixed to the standing surface according to the manufacturer's instructions.	N/A
4.4.2	Stability of activity toys with a free height of fall of 600 mm or less Activity toys with a free height of fall of 600 mm or less shall not tip over when tested according to 6.2.1 (stability of activity toys with a free height of fall of 600 mm or less).	Pass

TO BE CONTINUED

TEST RESULT

Clause	Test Method/ Requirement	Rating
4.4.3	Stability of activity toys with a free height of fall of more than 600 mm Activity toys with a free height of fall of more than 600 mm shall not tip over when tested according to 6.2.2 (stability of activity toys with a free height of fall of more than 600 mm).	N/A
4.5	Slides	
4.5.1	General The requirements in 4.5 do not apply to declined planes, which meet the following requirements: — the free height of fall is less than 600 mm and the overall declination of the declined section is less than 30° from the horizontal; or — the free height of fall is less than 400 mm	N/A
4.5.2	Stability of slides <i>Slides</i> supplied with <i>anchors</i> and intended to be permanently fixed (e.g. in concrete) when in use according to the manufacturer's instructions, shall not be subjected to stability tests. <i>Slides</i> supplied with removable ground <i>anchors</i> shall be tested with <i>anchors</i> fixed to the standing surface according to the manufacturer's instructions. <i>Slides</i> not supplied with <i>anchors</i> shall be subjected to stability tests. <i>Slides</i> (excluding <i>attachment slides</i>) shall not tip over when tested according to 6.2.3 (stability of slides).	N/A
4.5.3	Retaining sides for slides	
	Retaining sides for <i>slides</i> shall comply with the following requirements a) for <i>slides</i> with a starting section height of more than 1 000 mm measured from the ground, the height (h) of the retaining sides shall be 100 mm or more;	N/A
	b) for <i>slides</i> with a starting section height of 1 000 mm or less measured from the ground, the height (h) of the retaining sides shall be 50 mm or more.	N/A
	c) Retaining sides are not required for the run-out section of <i>slides</i> . If the run-out section is equipped with retaining sides, the finishing end of the retaining side shall have a minimum radius of 10 mm	N/A
4.5.4	Starting, sliding and run-out sections on slides Slides shall consist at least of a starting section, a sliding section and a run-out section. For attachment slides, a platform may be regarded as the starting section. The starting, sliding and run-out sections of slides shall comply with the following requirements	N/A
	a) the starting section for slides with a starting section height of less than 1 000 mm measured from the ground shall have at least the same width as the sliding section; a length of 150 mm or more; and an inclination of between 0° and 10° to the horizontal.	N/A
	b) the starting section for slides with a starting section height of 1 000 mm or more measured from the ground shall have at least the same width as the sliding section; a length of 250 mm or more; and an inclination of between 0° and 10° to the horizontal.	N/A
	c) the starting section of slides (excluding attachment slides) shall be provided with handrails in order to provide assistance to the child coming from the stair/ladder into the sitting position: 1) for slides with a starting section height less than 600 mm, the height of the handrail shall be 100 mm or more; 2) for slides with a starting section height of 600 mm or more but less than 1 000 mm, the height of the handrail shall be 150 mm or more;	N/A

TO BE CONTINUED

TEST RESULT

Clause	Test Method/ Requirement	Rating										
	3) for slides with a starting section height of 1 000 mm or more but less than 1 800 mm, the height of the handrail shall be 350 mm or more; 4) for slides with a starting section height of 1 800 mm or more, the height of the handrail shall be 500mm or more											
	d) the run-out section of the slide shall have a length of 150 mm or more. The inclination of the run-out section shall be between 0° and 10° to the horizontal, and the height of the end of the run-out section shall be 300 mm or less from the ground;	N/A										
	e) the finishing end of the run-out section shall have a minimum radius of 25 mm. This requirement does not apply to <i>slides</i> where the run-out section ends 50 mm or less from the ground;	N/A										
	f) the sliding section of the <i>slide</i> shall not exceed an angle of inclination of 60° to the horizontal at any point when measured according to 6.7.1	N/A										
	g) the minimum angle (α) along the sliding section and the run-out section shall not be less than the values given in Table 2, Table 2 — Minimum angle (α) along the sliding section and the run-out section in relation to the height of the starting section <table><tr><th>Height of the starting section</th><th>Minimum angle (α) along the sliding section and the run-out section</th></tr><tr><td>Less than 600 mm</td><td>120°</td></tr><tr><td>600 mm or more but less than 1 000 mm</td><td>130°</td></tr><tr><td>1 000 mm or more but less than 1 800 mm</td><td>140°</td></tr><tr><td>1 800 mm or more</td><td>150°</td></tr></table>	Height of the starting section	Minimum angle (α) along the sliding section and the run-out section	Less than 600 mm	120°	600 mm or more but less than 1 000 mm	130°	1 000 mm or more but less than 1 800 mm	140°	1 800 mm or more	150°	N/A
Height of the starting section	Minimum angle (α) along the sliding section and the run-out section											
Less than 600 mm	120°											
600 mm or more but less than 1 000 mm	130°											
1 000 mm or more but less than 1 800 mm	140°											
1 800 mm or more	150°											
	h) junction between sliding section and run-out section shall be a continuous curve;	N/A										
	i) the finishing end of the retaining section shall have a minimum radius of 10 mm.	N/A										
4.6	Swings											
4.6.1	Stability of swings and other activity toys with crossbeams	N/A										
4.6.2	Static strength of crossbeams, swing devices and suspension connectors When tested according to 6.3.2 (strength of swings), structures and/or crossbeams shall not collapse and swing devices and suspension connectors shall not become deformed, so that the activity toy does not comply with relevant requirements of EN 71-1.	N/A										
4.6.3	Swings intended for children under 36 months The seats of swings shall provide with a backrest and a safety device preventing the child from falling off the seat. If the seat is provided with a T-bar or a protective bar with a crotch strap, the horizontal section of the T-bar or the protective bar shall be situated between 200 mm and 300 mm above the seat,	N/A										
4.6.4	Minimum clearance between adjacent swing elements, and adjacent structures The requirements in 4.6.4 do not apply to single swing elements in swings with a crossbeam height of 1 200 mm or less above the ground. The minimum clearances between adjacent swing elements and between swing elements and adjacent structures shall be as given in Table 2.	N/A										
4.6.5	Lateral stability of swing elements The requirement in 4.6.5 does not apply to swings with rigid means of suspension. The minimum distance between the suspension points of a swing measured along	N/A										

TO BE CONTINUED

TEST RESULT

Clause	Test Method/ Requirement	Rating
	the crossbeam shall be calculated as follows (see Figure 7): $A = 0,04 h + B$ where A is the distance between the suspension points along the crossbeam; B is the distance between the junction points of the swing element and the means of suspension; h is the distance from the ground to the lower side of the crossbeam	
4.6.6	Minimum clearance between swing elements and the ground (see A.11) The minimum clearance between swing elements and the ground shall be as follows: swings with a crossbeam height of 1 200 mm or less : 200 mm; swings with a crossbeam height exceeding 1 200 mm: 350 mm. If a swing element has a footrest, the minimum clearance is measured between the footrest and the ground. If the clearance between the swing elements and ground is adjustable, the minimum clearance shall be mentioned in the assembly and installation instructions. For a flexible swing element, the fixture detailed in Figure 7 shall be used to simulate normal use	N/A
4.6.7	Suspension connectors and swing devices a) The suspension coupling(s) (see Figure 2, key 4) shall be prefixed to the means of suspension when supplied. This requirement does not apply to swings with rigid means of suspensions. b) Methods of attachment requiring knots are not permitted. Only: 1) non disassembling systems, a forced disassembling causing the destruction of the product, and 2) inviolable systems, like weld or injection stop are permitted. c) Suspension connectors shall be of a design that will prevent unintentional disconnection.	N/A
4.6.8	Impact, geometry and design of swing elements	N/A
4.7	See-saws	
4.7.1	Stability of see-saws The requirements in 4.7.1 do not apply to see-saws supplied with <i>anchors</i> that are intended to be permanently fixed (e.g. in concrete). See-saws supplied with removable ground <i>anchors</i> shall be tested with <i>anchors</i> fixed to the standing surface according to the manufacturer's instructions. When tested according to 6.2.5 (stability of see-saws), see-saws supplied with removable ground <i>anchors</i> and see-saws not supplied with <i>anchors</i> shall not tip over.	N/A
4.7.2	Seat/stand height The central point of the sitting or standing position of the see-saw shall not exceed a height of 1 200 mm. The sitting surface of the seats shall not swing out of the horizontal by more than 30°.	N/A
4.7.3	Restraint of motion For see-saws where the central point of the sitting or standing position can reach a height of 1 000 mm or more, each end of the see-saw shall be provided with dampening material on the part that touches the ground or have a dampening device incorporated in the centre of the see-saw.	N/A
4.7.4	Pinching and crushing of fingers and toes When one end of the beam is touching the ground, the space between the underside of the beam and its central pivot shall admit a 12 mm diameter rod.	N/A

TO BE CONTINUED

TEST RESULT

Clause	Test Method/ Requirement	Rating
4.7.5	Hand supports Each seating position shall be provided with one hand support at least.	N/A
4.8	Carousels and rocking activity toys The requirements in 4.8 do not apply to bow-mounted rocking horses and similar toys. Carousels, rocking <i>activity toys</i> and similar toys shall comply with the following requirements: a) when tested according to 6.2.1 (stability of activity toys with a free height of fall of 600 mm or less), activity toys shall not tip over; b) when tested according to 6.3.2 (strength of activity toys other than swings and paddling pools), activity toys shall not <i>collapse</i> ; c) when measured from the ground and surface to any sitting or standing position, the free height of fall for carousels and rocking activity toys shall not exceed 600 mm.	N/A
4.9	Paddling pools	
4.9.1	Static strength of paddling pools with non-inflatable walls When tested according to 6.10 (static load test for paddling pools with non-inflatable walls), the structure shall not present any hazardous sharp edges or hazardous sharp points, or any small parts which fit entirely in the small parts cylinder specified in EN 71-1.	N/A
4.9.2	Paddling pools with inflatable walls All air-inflation inlets on paddling pools with inflatable walls shall comply with the requirements for inflatable toys specified in EN 71-1.	N/A
5	Warnings, markings, and instructions	
5.1	Warnings and markings	Pass*
5.2	Assembly and installation instructions	Pass*
5.3	Maintenance	Pass*

Note:

N/A =Not applicable;

"***" means only artwork with required information was provided.

END OF THE REPORT