



中国认可  
国际互认  
检测  
TESTING  
CNAS L1744

## ZHONG JIE EDUCATIONAL TOYS INDUSTRIAL CO., LTD

**Technical Report: (8820)090-0008**

Apr 27, 2020

Date Received: Mar 30, 2020

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ZHONG JIE EDUCATIONAL TOYS INDUSTRIAL CO., LTD  
BEILONG AREA, HUADONG ROAD, GUANGYI STREET,  
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG, CHINA.

Sample Description:	DINOSAUR SERIES, ANIMAL SERIES AND SCENE SERIES		
Vendor:	N/A	Sample Size:	12
Manufacturer:	N/A	Style No(s):	SEE ATTACHMENT
Labeled Age Grade:	3+	SKN/SKU No.:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	PO No.:	NOT PROVIDE
Client Specified Age Grade:	3+	Ref #:	NOT PROVIDE
Tested Age Grade:	OVER 3 YEARS OF AGE	Country of Origin:	CHINA
UPC Code:	N/A	Assortment No.:	NOT PROVIDE
Resubmitted Sample Date:	APR 20, 2020	Further Information Date:	APR 20, 2020
2 <sup>nd</sup> Resubmitted Sample Date:	APR 26, 2020		
Test Starting Date:	MAR 30, 2020	Test Finished Date:	APR 27, 2020

### EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018 clauses 1-7.
- Labeling requirements of "CE marking, manufacturer/ Importer name and address, and product identification" under "Directive 2009/48/EC Safety of Toy".
- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2011+A1: 2014.

To be continued

BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

Harvey Xue  
Manager, Analytical Lab



BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

Xuechao Li  
Supervisor, Toys Lab

RT/Jodie Chen/Tina Ye

### REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 89952999 Ext. 8175 CPSAnalytical.DG@bureauveritas.com

Business Contact: (86) 0769 85893595

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### **EXECUTIVE SUMMARY:**

The tested component sample(s) MEETS the following requirement(s):

- The migration of certain elements in Category III - Scraped off toy material requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2019.
- Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment (EU) 2019/1922.

Note: At the request of the client, the sample(s) was evaluated for use by children 3+.

Note: Certain of products were no function.

Note: The manufacturer / importer information was present on the packaging only. It has to be noted that, or according to TSD 2009/48/EC, the manufacturers/ importer shall indicate their name, registered trade name registered trade mark and the address at which they can be contacted on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy."

Note: The product identification is present on the packaging only. It has to be noted that, According to TSD 2009/48/EC, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or, where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

Note: At the request of client, test(s) was conducted on the certain component(s) of the submitted samples(s) / submitted component(s).



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Q9899-01, Q9899-02, Q9899-03, Q9899-04, Q9899-05, Q9899-06, Q9899-07, Q9899-08, Q9899-09, Q9899-1, Q9899-3, Q9899-10, Q9899-38ABC, Q9899-58, Q9899-59ABCD, Q9899-69, Q9899-73, Q9899-74, Q9899-76, Q9899-77, Q9899-78, Q9899-79, Q9899-90, Q9899-92, Q9899-100A, Q9899-100B, Q9899-100C, Q9899-100D, Q9899-100E, Q9899-101, Q9899-102, Q9899-103, Q9899-105, Q9899-107, Q9899-109, Q9899-111A, Q9899-111B, Q9899-111C, Q9899-111D, Q9899-111E, Q9899-111F, Q9899-111G, Q9899-111H, Q9899-120, Q9899-121, Q9899-124, Q9899-125, Q9899-126, Q9899-127, Q9899-129, Q9899-129A, Q9899-129B, Q9899-130, Q9899-131, Q9899-132, Q9899-133, Q9899-135, Q9899-136, Q9899-137, Q9899-138, Q9899-140, Q9899-141, Q9899-142, Q9899-143, Q9899-150A, Q9899-151, Q9899-152, Q9899-152A, Q9899-153A, Q9899-154A, Q9899-155A, Q9899-156A, Q9899-157A, Q9899-158A, Q9899-160, Q9899-161, Q9899-162, Q9899-163, Q9899-164, Q9899-164A, Q9899-164B, Q9899-170, Q9899-171, Q9899-172, Q9899-173, Q9899-174, Q9899-175, Q9899-180, Q9899-181, Q9899-182, Q9899-183, Q9899-185, Q9899-186, Q9899-187, Q9899-188, Q9899-189, Q9899-190, Q9899-191, Q9899-192, Q9899-193, Q9899-195, Q9899-196, Q9899-197, Q9899-198, Q9899-199, Q9899-200, Q9899-201, Q9899-202, Q9899-203, Q9899-204, Q9899-205, Q9899-206, Q9899-207, Q9899-208, Q9899-209, Q9899-210, Q9899-211, Q9899-212, Q9899-213, Q9899-214, Q9899-215, Q9899-216, Q9899-217, Q9899-218, Q9899-220, Q9899-221, Q9899-222, Q9899-223, Q9899-224, Q9899-225, Q9899-226, Q9899-227, Q9899-228, Q9899-229, Q9899-230, Q9899-231, Q9899-232, Q9899-233, Q9899-235, Q9899-236, Q9899-237, Q9899-238, Q9899-240, Q9899-241, Q9899-242, Q9899-243, Q9899-245, Q9899-246, Q9899-247, Q9899-248, Q9899-250, Q9899-251, Q9899-252, Q9899-253, Q9899-254, Q9899-255, Q9899-257, Q9899-258, Q9899-260, Q9899-263, Q9899-265, Q9899-266, Q9899-267, Q9899-268, Q9899-269, Q9899-270, Q9899-271, Q9899-272, Q9899-273, Q9899-274, Q9899-275, Q9899-276, Q9899-277, Q9899-278, Q9899-279, Q9899-280, Q9899-281, Q9899-282, Q9899-283, Q9899-285, Q9899-286, Q9899-287, Q9899-288, Q9899-290, Q9899-291, Q9899-292, Q9899-293, Q9899-295, Q9899-296, Q9899-297, Q9899-298, Q9899-300, Q9899-301, Q9899-302, Q9899-303, Q9899-305, Q9899-306, Q9899-307, Q9899-308, Q9899-309, Q9899-310, Q9899-311, Q9899-312, Q9899-313, Q9899-314, Q9899-315, Q9899-316, Q9899-317, Q9899-318, Q9899-319, Q9899-320, Q9899-321, Q9899-322, Q9899-323, Q9899-324, Q9899-325, Q9899-326, Q9899-327, Q9899-328, Q9899-329, Q9899-330, Q9899-331, Q9899-332, Q9899-333, Q9899-334, Q9899-335, Q9899-336, Q9899-337, Q9899-338, Q9899-339, Q9899-345, Q9899-346, Q9899-347, Q9899-348, Q9899-349, Q9899-350, Q9899-351, Q9899-352, Q9899-353, Q9899-354, Q9899-355, Q9899-356, Q9899-357, Q9899-358, Q9899-359, Q9899-360, Q9899-361, Q9899-375, Q9899-376, Q9899-377, Q9899-378, Q9899-379, Q9899-380, Q9899-381, Q9899-382, Q9899-383, Q9899-384, Q9899-385, Q9899-386, Q9899-387, Q9899-388, Q9899-389, Q9899-390, Q9899-391, Q9899-392, Q9899-393, Q9899-394, Q9899-395, Q9899-396, Q9899-397, Q9899-398, Q9899-399, Q9899-400, Q9899-401, Q9899-402, Q9899-403, Q9899-404, Q9899-405, Q9899-406, Q9899-407, Q9899-410, Q9899-411, Q9899-412, Q9899-414, Q9899-415, Q9899-416, Q9899-417, Q9899-418, Q9899-419, Q9899-590, Q9899-591, Q9899-592, Q9899-593, Q9899-594, Q9899-595, Q9899-596, Q9899-597, Q9899-598, Q9899-058, Q9899-059, Q9899-060, Q9899-061, Q9899-062, Q9899-063, Q9899-068, Q9899-069, Q9899-096, Q9899-097, Q9899-098, Q9899-099, Q9899-A01, Q9899-A02, Q9899-A03, Q9899-A04, Q9899-A05, Q9899-A06, Q9899-A07, Q9899-A08, Q9899-A09, Q9899-A10, Q9899-A11, Q9899-A12, Q9899-A13, Q9899-A14, Q9899-A15, Q9899-A16, Q9899-A17, Q9899-A18, Q9899-A19, Q9899-A20,



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Q9899-A21 , Q9899-A22 , Q9899-A23 , Q9899-A24 , Q9899-A25 , Q9899-A26 , Q9899-A27 , Q9899-A28 ,  
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Q9899-X24 , Q9899-X25 , Q9899-X26 , Q9899-X27 , Q9899-Y1 , Q9899-Y2 , Q9899-Y3 , Q9899-Y20 ,  
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Q9899-P21 , Q9899-P22 , Q9899-P23 , Q9899-P24 , Q9899-P25 , Q9899-P26 , Q9899-P27 , Q9899-P28 ,



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Q9899-P40 , Q9899-P41 , Q9899-P42 , Q9899-P43 , Q9899-P44 , Q9899-Y60 , Q9899-Y75 , Q9899-A37 ,  
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Q9899-W8 , Q9899-W9 , Q9899-W10 , Q9899-V6 , Q9899-V7 , Q9899-V8 , Q9899-V9 , Q9899-V10 , Q9899-H09,  
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Q9899-H53 , Q9899-H54 , Q9899-H55 , Q9899-B28 , Q9899-B29 , Q9899-B30 , Q9899-B48 , Q9899-B49 ,  
Q9899-B50 , Q9899-B51 , Q9899-B52 , Q9899-B53 , Q9899-B54 , Q9899-B55 , Q9899-B56 , Q9899-B57 ,  
Q9899-B58 , Q9899-B59 , Q9899-B60 , Q9899-Q3 , Q9899-Q4 , Q9899-Q5 , Q9899-Q6 , Q9899-X28 ,  
Q9899-X29 , Q9899-X30 , Q9899-X31 , Q9899-X32 , Q9899-X33 , Q9899-X34 , Q9899-X35 , Q9899-T18 ,  
Q9899-T19 , Q9899-T20 , Q9899-U14 , Q9899-U15 , Q9899-U16 , Q9899-U17 , Q9899-U18 , Q9899-U19 ,  
Q9899-U20  
08-3065852, 08-3057045, 08-3057016, 08-3056747, 08-3048632, Q9899-007, Q9899-008, Q9899-010, Q9899-015



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**Tested Component(s) Description List:**

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Dark brown /dark green /orange / yellow coating	Body of dinosaur	-
I002	Red /green /grey coating	Body of dinosaur	-
I003	Green /brown /purple /red /light yellow coating	Body of dinosaur	-
I004	Cyan /dark orange /red /light cyan /purple /red coating	Body of dinosaur	-
I005	Red brown /dull green /yellow green /black /blue coating	Body of dinosaur	-
I006	Mud green /red /brown /dark blue coating	Body of dinosaur	-
I007	Matt brown /black /beige /brown coating	Horse	-
I008	Dull red /black /dull brown coating	Horse	-
I009	Bright brown /white /black /deep brown coating	Horse	-
I010	Yellow PVC	Dinosaur	-
I011	Orange PVC	Dinosaur	-
I012	Green PVC	Dinosaur	-
I013	Dark brown PVC	Dinosaur	-
I014	Yellow green PVC	Dinosaur	-
I015	White PVC	Horse	-



**RESULTS:**

**APPROPRIATE AGE GRADE DETERMINATION**

<p>The Appropriate Age Grade is determined with reference to the EN71 : Part 1 : 2014+A1:2018,          CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age determination guidelines prepared by Technical Committee          CEN/TC 52 and          Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC).</p>	
Note :	The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.
Note :	If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

**EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2 & 6**

Symbol	Explanation				
NM	The sample(s) DOES NOT MEET the requirement of this Subclause				
M	The sample(s) MEET the requirement of this Subclause				
N/A	Not Applicable				
NR	Not Requested				
NE	Not Evaluated				
NP	None Present				
NT	Not Tested				
P	Present				
R	Refer to Comment Section of this report				
Symbol	Language Present	Symbol	Language Present	Symbol	Language Present
B	Belgian language	G	German language	PR	Portuguese language
D	Danish language	GR	Greek language	S	Spanish language
E	English language	H	Dutch language	SD	Swedish language
F	Finnish language	I	Italian language	SZ	Swiss language
FR	French language	N	Norwegian language		



**RESULTS:**

**MECHANICAL & PHYSICAL PROPERTIES  
(EN 71: PART 1 – 2014+A1 – 2018)**

Subclause	Requirement	Result
4.1	Material cleanliness	M
4.2	Assembly	M
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7 & 7.6	Edges	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	M
4.9	Protruding parts	M
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	M
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA



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**RESULTS:**

Subclause	Requirement	Result
4.16	Heavy immobile toys	M
4.17.2	All projectiles	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.26	Certain projectiles toys without stored energy	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA
4.19 & 7.13 & 7.14	Percussion caps	NA
4.20.2.1- 4.20.2.4, 4.20.2.6-4.20.2.12 & 7.14	Acoustics	M
*4.20.2.5	Acoustics– Toys using headphones or earphones	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27.1	Flying toys – General	NA
4.27.2 & 7.25.1	Rotors and propellers on flying toys	NA
4.27.3 & 7.25.2	Rotors and propellers on remote controlled flying toys	NA
<b>FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS</b>		
5.1	General	NA
5.1a	Small parts – as received	NA
5.1b	Small parts, sharp points, sharp edges – after tests	NA
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA
5.2	Fillings, coverings and seams	NA
5.3	Adhesion of plastic sheeting	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA



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**RESULTS:**

Subclause	Requirement	Result
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6 & 7.21	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9 & 7.11 & 7.23	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5 & 7.12	Liquid filled toys	NA
5.6	Electrically driven toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size	NA
5.9 & 7.17	Monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15 & 7.24	Sledges with cords for pulling	NA
6	Packaging	NA
<b>WARNINGS, INSTRUCTIONS FOR USE</b>		
7.1	General	M
7.2	Toys not intended for children under 36 months	M
7.5	Functional toys	NA

**2009/48/EC General Labeling Requirement**

Requirement	Result
CE Mark	M
Manufacturer/ Importer name and address	M
Product Identification	M

*M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section NT=Not Test*



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**RESULTS:**

**REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1**

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.3	8.25.1	4.15.1.5	8.26.1	4.22	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32	5.4.5	8.40
4.5	8.5, 8.7, 8.11, 8.12	4.15.1.8	8.29	4.23	8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35	5.4.6	8.40
4.6	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14	4.15.2.4	8.26.2	4.24	8.37	5.4.7	8.20
4.7	8.11	4.15.3	8.21, 8.23.1	4.25	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1	5.7.8	8.39
4.8	8.12, 8.13	4.15.4	8.21, 8.23.1	4.26	8.38	5.5	8.15
4.9	8.4.2.3, 8.11, 8.12	4.15.5	8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27	4.27.1	8.43	5.6	8.29
4.10.1	8.18.2, 8.18.3	4.16	8.23.2	4.27.2	8.4.2.6	5.8	8.16
4.10.2	8.5, 8.6, 8.7, 8.11, 8.12	4.17.1	8.3, 8.4.2.1, 8.7, 8.8, 8.42	4.27.3	8.4.2.6	5.10	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32
4.11	8.2, 8.3, 8.4.2.1, 8.9, 8.17	4.17.2	8.3, 8.4.2.4, 8.7, 8.8, 8.32.1, 8.43, 8.44	5.1	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12	5.11	8.33
4.13	8.19	4.17.3	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.3	8.4.2.1, 8.25	5.12	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9,
4.14.1	8.31.1, 8.31.2	4.17.4	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.4.1	8.40	5.13	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32
4.14.2	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12	4.18	8.2, 8.3, 8.4.2.1	5.4.2	8.38, 8.40, 8.41	5.14	8.38
4.15.1.3	8.11, 8.12, 8.21, 8.22	4.20	8.28	5.4.3	8.38, 8.40, 8.41	6	8.3, 8.4.2.1, 8.25.1, 8.32.1
4.15.1.4	8.23.1	4.21	8.30	5.4.4	8.36, 8.38		



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**RESULTS:**

**FLAMMABILITY (EN 71 PART 2: 2011+A1: 2014)**

Subclause	Requirement	Result
4.1	Cellulose nitrate	NP
4.1	Surface flash on a piled surface	NA
*4.1	Flammable gases	NA
*4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA
4.2	Toys to be worn on the head	M
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by a child	NA
4.4	warning on product and packaging (10 – 30 mm/s)	NA
4.5	Soft-filled toys	M

**REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2**

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-

\* Note: Subclause indicated with \* are not accredited.



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**RESULTS:**

**Migration of Certain Elements –European Standard EN 71 Part 3: 2019**

Test Method: European Standard EN 71 Part 3: 2019, Section 9.

Class: Category III - Scraped off toy material

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I001	I002	I003	I004	I005
Aluminium (Al)	70000	63	66	61	75	38
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	9	10	6	4	2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	1.455	0.780	0.910	1.012	0.570
Chromium VI (Cr VI)	0.053	LT 0.0020#	LT 0.0020#	LT 0.0020#	LT 0.0020#	LT 0.0020#
Copper (Cu)	7700	12	24	9	7	3
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	4	4	3	3	LT 2
Nickel (Ni)	930	LT 2	4	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	2	LT 2	6	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	35	97	32	13	31
Zinc (Zn)	46000	97	170	88	72	18
Mass of trace amount (gram)		-	-	-	-	0.0845
Conclusion		PASS	PASS	PASS	PASS	PASS



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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I006	I007	I008	I009	I010
Aluminium (Al)	70000	35	28	47	31	LT 2
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	2	2	3	3	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	0.512	0.918	0.692	0.398	LT 0.053
Chromium VI (Cr VI)	0.053	LT 0.0020#	LT 0.0020#	LT 0.0020#	LT 0.0020#	
Copper (Cu)	7700	4	3	3	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	LT 2	LT 2	2	LT 2	LT 2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	5	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2#	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	19	8	9	9	LT 2
Zinc (Zn)	46000	39	20	24	24	LT 2
Mass of trace amount (gram)		-	-	-	0.0623	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I011	I012	I013	I014	I015
Aluminium (Al)	70000	LT 2	LT 2	LT 2	LT 2	LT 2
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	LT 2	LT 2	LT 2	LT 2	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	LT 0.053	LT 0.053	LT 0.053	LT 0.053
Chromium VI (Cr VI)	0.053					
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	2	LT 2	2	LT 2	2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	4	3	LT 2	LT 2	LT 2
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS

mg/kg = milligrams per kilogram (ppm=parts per million)

LT = Less Than

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

# = Verified results (see note)

**Remark:**

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

**Note:**

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: EN71 part 3:2019, Annex F by Ion-chromatography with UV/VIS detector analysis.
- Organic tin: EN71 part 3:2019, Annex G by Gas Chromatography – Mass Spectroscopy analysis.





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**RESULTS:**

**Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment (EU) 2019/1922**

Test Method: European Standard EN 71 Part 3: 2019, Section 9.

Class: Category III - Scraped off toy material

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I001	I002	I003	I004	I005
Aluminium (Al)	28130	63	66	61	75	38
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	9	10	6	4	2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	1.455	0.780	0.910	1.012	0.570
Chromium VI (Cr VI)	0.053	LT 0.0020#	LT 0.0020#	LT 0.0020#	LT 0.0020#	LT 0.0020#
Copper (Cu)	7700	12	24	9	7	3
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	4	4	3	3	LT 2
Nickel (Ni)	930	LT 2	4	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	2	LT 2	6	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	35	97	32	13	31
Zinc (Zn)	46000	97	170	88	72	18
Mass of trace amount (gram)		-	-	-	-	0.0845
Conclusion		PASS	PASS	PASS	PASS	PASS



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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I006	I007	I008	I009	I010
Aluminium (Al)	28130	35	28	47	31	LT 2
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	2	2	3	3	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	0.512	0.918	0.692	0.398	LT 0.053
Chromium VI (Cr VI)	0.053	LT 0.0020#	LT 0.0020#	LT 0.0020#	LT 0.0020#	
Copper (Cu)	7700	4	3	3	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	LT 2	LT 2	2	LT 2	LT 2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	5	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2#	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	19	8	9	9	LT 2
Zinc (Zn)	46000	39	20	24	24	LT 2
Mass of trace amount (gram)		-	-	-	0.0623	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I011	I012	I013	I014	I015
Aluminium (Al)	28130	LT 2	LT 2	LT 2	LT 2	LT 2
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	LT 2	LT 2	LT 2	LT 2	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	LT 0.053	LT 0.053	LT 0.053	LT 0.053
Chromium VI (Cr VI)	0.053					
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	2	LT 2	2	LT 2	2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	4	3	LT 2	LT 2	LT 2
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS

mg/kg = milligrams per kilogram (ppm=parts per million)

LT = Less Than

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

# = Verified results (see note)

**Remark:**

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

**Note:**

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: EN71 part 3:2019, Annex F by Ion-chromatography with UV/VIS detector analysis.
- Organic tin: EN71 part 3:2019, Annex G by Gas Chromatography – Mass Spectroscopy analysis.



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