

Test Report

No.: 70.452.21.14865.01

Date: 2023-10-12



Applicant: NANJING ZHONGLONG BOCHUANGOUTDOOR PRODUCTS CO.,LTD
Address: 3F04-1, NO. 98 CHENGUANG ROAD, QINHUI DISTRICT, NANJING CITY, JIANGSU PROVINCE, CHINA
Product Name: Framed Backpack Carrier
Style No.: WIPHA/Model No./Type:Creeper-III
End Use: Used for carrying children
Supplier: Nanjing Hanbu Travel Supplies Co. LTD
Country of Origin: China
Country of Destination: USA,UK,EU
Receipt Date of Sample: 2021-12-13, 2022-07-11~2022-11-30, 2023-06-14~2023-08-11
Date of Testing: 2021-12-13 to 2023-10-12
Date of Further Information: 2023-09-18
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. EN 13209-1:2022 Child care articles — Child carriers — Safety requirements and test methods — Part 1: Framed back carrier	Pass
2. ASTM F2549-22 — Standard consumer safety specification for frame child carriers & 16 CFR Part 1230 — Safety standard for frame child carriers	Pass
3. CPSIA section 101(f) -Total Lead Content (surface coating)	Pass
4. CPSIA section 101(a)(2) - Total Lead Content(Substrate)	Pass
5. CPSIA, § 108, 16 CFR 1307- Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates	Pass
6. Canada Consumer Products Containing Lead Regulations (SOR/2018-83) -Total Lead Contem	Pass
7. Canada Phthalates Regulations (SOR/2016-188) - Phthalates Content	Not Applicable
8. Canada Consumer Product Safety Act, Schedule 2, item 16 - Tris (2-chloroethyl) phosphate Content	Not Applicable

Remarks 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Testing Center

Prepared by:

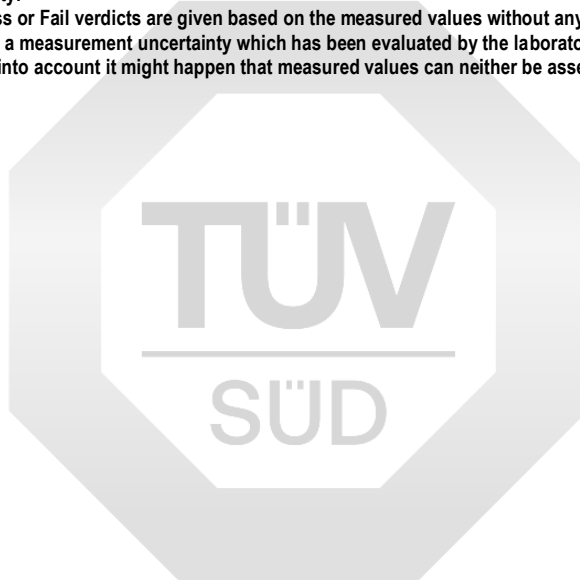
Jenny Yao
Technical Engineer

Authorized by:

Sawyer Tang
Technical Manager

Note:

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Description of Tested Subject:

<p>Sample Receiving Info</p>	<p>Sample Received on: 2021-12-13; Complete test sample A 1pc; Sample Received on: 2022-07-11, Revised test sample A 1pc; Sample Received on: 2022-09-28, Revised test sample A 1pc; Sample Received on: 2022-11-30, Revised test sample A 1pc & test sample B 1pc; Sample Received on: 2023-06-14, Revised test sample A 1pc & test sample B 1pc; Sample Received on: 2023-07-12, Revised test sample A 1pc, test sample B 1pc and review sample C; Sample Received on: 2023-07-24, Revised test sample A 1pc; Sample Received on: 2023-08-11, Revised test sample A 1pc; Sample Received on: 2023-09-04, Review sample D 1pc and canopy 1pc.</p>	
<p>Sample Description</p>	<p>Overall weight (kg):</p>	<p>A: 2.67; B: 2.66; C: 2.66; D: 2.54; Canopy: 0.09.</p>

Sample Photos



Front view of test sample A



Side view of test sample A



Back view of test sample A



Front view of test sample B



Side view of test sample B



Back view of test sample B



Front view of review sample C





Side view of review sample C




Back view of review sample C



Front view of review sample D

	
<p>Side view of review sample D</p>	<p>Back view of review sample D</p>
	<p>/</p>
<p>Canopy view</p>	<p>/</p>

Sample	Description	Photo
A	Framed Backpack Carrier	

Sample	Description	Photo
006	Grey plastic (buckle, A/B/C/D)	
007	Yellow plastic (buckle)	
008	Black plastic (buckle, A/B/C/D)	
009	Deep grey plastic hook fastener (A/B/C/D)	

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Sample	Description	Photo
011	Black plastic hook fastener (A/B/C/D)	
012	Blue plastic (zipper teeth, A)	
013	Grey plastic (zipper teeth, A/B/C/D)	
017	Black plastic (A/B/C/D)	

Sample	Description	Photo
018	Black plastic mesh (A/B/C/D)	
019	Black foam (inner filler, A/B/C/D)	
020	White foam (inner filler, A/B/C/D)	
023	Deep grey elastic band (A/B/C/D)	

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Sample	Description	Photo
024	Blue fabric with silvery coating/backing (body, A)	
025	Grey fabric with white coating (shoulder belt, A/B/C/D)	
026	Deep grey webbing belt (A/B/C/D)	
027	Deep grey webbing belt (binding, A/B/C/D)	

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Sample	Description	Photo
028	Black webbing belt (zipper slider, A/B/C/D)	
029	Deep grey textile loop fastener (A/B/C/D)	
031	Black textile loop fastener (A/B/C/D)	
032	Deep grey fabric (lining, A/B/C/D)	

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Sample	Description	Photo
033	Deep grey mesh fabric (A/B/C/D)	
034	Deep grey rope (A/B/C/D)	
035	Blue fabric (zipper tape, A)	
036	Grey fabric (zipper tape, A/B/C/D)	

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Sample	Description	Photo
038	Deep grey fluff fabric (lining of seat, A/B/C/D)	
039	Grey fabric (lining of seat, A/B/C/D)	
040	Grey fabric (lining of seat, A/B/C/D)	
043	Black/white/red fabric (trademark, A/B/C/D)	


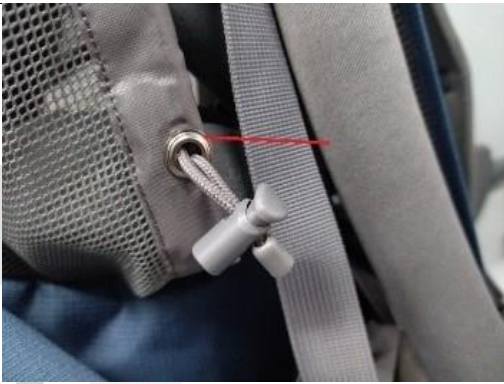
Sample	Description	Photo
044	Grey webbing fabric (shoulder belt, A/B/C/D)	
045	Deep grey thick mesh fabric (shoulder belt, A/B/C/D)	
046	Grey ribbon (A/B/C/D)	
047	Silvery metal (screw, A/B/C/D)	

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Sample	Description	Photo
048	Silvery metal (rivet, A/B/C/D)	
049	Gunmetal metal (snap/rope hole, A/B/C/D)	

T. No	Sample	Description
T1	001	Silvery coating (frame, A/B/C/D)
T2	006	Grey plastic (buckle, A/B/C/D)
T3	008	Black plastic (buckle, A/B/C/D)
T4	009	Deep grey plastic hook fastener (A/B/C/D)
T5	011	Black plastic hook fastener (A/B/C/D)
T6	012	Blue plastic (zipper teeth, A)
T7	013	Grey plastic (zipper teeth, A/B/C/D)
T8	017	Black plastic (A/B/C/D)
T9	018	Black plastic mesh (A/B/C/D)
T10	019	Black foam (inner filler, A/B/C/D)
T11	020	White foam (inner filler, A/B/C/D)
T12	023	Deep grey elastic band (A/B/C/D)
T13	024	Blue fabric with silvery coating/backing (body, A)
T14	025	Grey fabric with white coating (shoulder belt, A/B/C/D)
T15	026	Deep grey webbing belt (A/B/C/D)
T16	027	Deep grey webbing belt (binding, A/B/C/D)
T17	028	Black webbing belt (zipper slider, A/B/C/D)
T18	029	Deep grey textile loop fastener (A/B/C/D)
T19	031	Black textile loop fastener (A/B/C/D)
T20	032	Deep grey fabric (lining, A/B/C/D)
T21	033	Deep grey mesh fabric (A/B/C/D)
T22	034	Deep grey rope (A/B/C/D)
T23	035	Blue fabric (zipper tape, A)

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T. No	Sample	Description
T24	036	Grey fabric (zipper tape, A/B/C/D)
T25	038	Deep grey fluff fabric (lining of seat, A/B/C/D)
T26	039	Grey fabric (lining of seat, A/B/C/D)
T27	040	Grey fabric (lining of seat, A/B/C/D)
T28	043	Black/white/red fabric (trademark, A/B/C/D)
T29	044	Grey webbing fabric (shoulder belt, A/B/C/D)
T30	045	Deep grey thick mesh fabric (shoulder belt, A/B/C/D)
T31	046	Grey ribbon (A/B/C/D)
T32	047	Silvery metal (screw, A/B/C/D)
T33	048	Silvery metal (rivet, A/B/C/D)
T34	049	Gunmetal metal (snap/rope hole, A/B/C/D)
T35	051	Metal without coating (frame, A/B/C/D)
T36	052	Black foam (handle, A/B/C/D)
T37	054	Grey fabric (A/C)
T38	055	Transparent glue (A/B/C/D)
T39	056	Grey fabric with backing (body, A/B/C/D)
T40	057	Black plastic (joint/pad, A/B/C/D)
T41	058	Golden metal (screw, A/B/C/D)
T42	059	Red fabric with backing (body, B)
T43	060	Red plastic (zipper teeth, B)
T44	061	Red fabric (zipper tape, B)
T45	062	White plastic (holder, A/B/C/D)
T46	063	Deep grey fabric (A/B/C/D)
T47	064	Black fabric with backing (body, C)
T48	065	Black plastic (zipper teeth, C)
T49	066	Black fabric (zipper tape, C)
T50	067	White fabric with black/white/orange coating (label, B/C/D)
T51	068	Black coated metal (button, A/B/C/D)
T52	069	Grey coated metal (zipper head/slider, A/B/C/D)
T53	070	Green fabric with backing (body, D)
T54	071	Green plastic (zipper teeth, D)
T55	072	Green fabric (zipper tape, D)

Test Result(s):

1. EN 13209-1:2022 Child care articles — Child carriers — Safety requirements and test methods — Part 1: Framed back carrier

Clause	Requirement	Result	Verdict																																								
5	General requirements																																										
5.1	Order of tests Unless otherwise stated, the specified tests shall be carried out on one sample in the order of the clause numbers in this standard.	-	-																																								
5.2	Test conditions The tests are designed to be applied to framed back carriers that are fully assembled and ready for use in accordance with the manufacturer's instructions.	-	-																																								
5.3	Tolerances	-	-																																								
6	Chemical hazards																																										
6.1	Migration of certain elements																																										
	<p>The migration of elements from materials on exterior surfaces shall not exceed the limits listed below:</p> <table border="1"> <thead> <tr> <th>Element</th> <th>mg/kg</th> </tr> </thead> <tbody> <tr><td>Aluminium</td><td>70 000</td></tr> <tr><td>Antimony</td><td>560</td></tr> <tr><td>Arsenic</td><td>47</td></tr> <tr><td>Barium</td><td>18 750</td></tr> <tr><td>Boron</td><td>15 000</td></tr> <tr><td>Cadmium</td><td>17</td></tr> <tr><td>Chromium (III)</td><td>460</td></tr> <tr><td>Chromium (VI)</td><td>0,2</td></tr> <tr><td>Cobalt</td><td>130</td></tr> <tr><td>Copper</td><td>7 700</td></tr> <tr><td>Lead</td><td>23</td></tr> <tr><td>Manganese</td><td>15 000</td></tr> <tr><td>Mercury</td><td>94</td></tr> <tr><td>Nickel</td><td>930</td></tr> <tr><td>Selenium</td><td>460</td></tr> <tr><td>Strontium</td><td>56 000</td></tr> <tr><td>Tin</td><td>180 000</td></tr> <tr><td>Organic tin</td><td>12</td></tr> <tr><td>Zinc</td><td>46 000</td></tr> </tbody> </table>	Element	mg/kg	Aluminium	70 000	Antimony	560	Arsenic	47	Barium	18 750	Boron	15 000	Cadmium	17	Chromium (III)	460	Chromium (VI)	0,2	Cobalt	130	Copper	7 700	Lead	23	Manganese	15 000	Mercury	94	Nickel	930	Selenium	460	Strontium	56 000	Tin	180 000	Organic tin	12	Zinc	46 000	See result 1.1	P
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6.2	Formaldehyde																																										
	Textile components shall not contain free and hydrolysed formaldehyde in excess of 30 mg/kg when tested in accordance with EN ISO 14184-1.	See result 1.2	P																																								
7	Thermal hazards																																										
7.1	General																																										
	Any metal components of the top rim of the carrier shall not be accessible to the child in the position of use.	Complied	P																																								

Clause	Requirement	Result	Verdict
7.2	Flammability		
7.2.1	Requirements		
	When tested in accordance with 7.2.2, there shall be no surface flash.	Complied	P
	When tested in accordance with 7.2.2, the rate of spread of flame shall not exceed 50 mm/s.	Complied	P
8	Mechanical hazards		
8.1	Entrapment of fingers		
8.1.1	Requirement		
	<p>There shall be no accessible completely bounded openings in rigid materials between 7 mm and 12 mm unless the depth is less than 10 mm or unless the shape assessment probe, see 4.6.3, enters, when tested in accordance with 8.1.2.</p> <p>There shall be no accessible openings in mesh that allow the finger probe for mesh, see 4.6.2, to penetrate up to the 7 mm diameter section, when tested in accordance with 8.1.2.</p> <p>The test shall be carried out with the product in any intended position of use without any test mass and with test mass A, see 4.4.1.</p> <p>Buckles, fastenings and sliders are excluded from these requirements.</p>	Complied	P
8.2	Edges, projections and corners		
	When assembled for use, all exposed edges, projections and corners of components shall be rounded, chamfered and free from burrs.	Complied	P
8.3	Choking and ingestion hazards		
8.3.1	Requirements		
	<p>Any components not intended to be detachable but which become detached when tested in accordance with 8.3.2 shall not fit wholly within the small parts cylinder specified in 4.1 without compression and in any orientation.</p> <p>Any component intended to be removable without the use of a tool shall not fit wholly within the small parts cylinder specified in 4.1 without compression and in any orientation.</p> <p>These requirements exclude paper, fabric, yarn, strings and fuzz.</p>	Complied	P
8.4	Entanglement hazards		
8.4.1	Requirements		
	<p>These requirements do not apply to straps with a width greater than 19 mm.</p> <p>Cords, ribbons and similar parts shall have a maximum free length of 220 mm when tested in accordance with 8.4.2. See Figure 9.</p> <p>Where cords, ribbons and similar parts are attached to the framed back carrier together or within 80 mm of each other, any single cord shall have a maximum</p>	Complied	P

Clause	Requirement	Result	Verdict
	free length of 220 mm and the combined length from one loose end to the other end shall be a maximum of 360 mm. See Figure 9. If it is possible to form a loop with cords, ribbons and similar parts the maximum peripheral dimension shall be 360 mm. Monofilament threads shall not be used in the construction of the framed back carrier.		
8.5	Stability		
8.5.1	Requirements		
	The freestanding framed back carrier shall not tip over when tested in accordance with 8.5.2.	Complied	P
8.6	Protective function		
8.6.1	Child restraint system		
8.6.1.1	Requirements		
	The framed back carrier shall incorporate a child restraint system which shall be adjustable. Where straps are used for a child restraint system, they shall have a minimum width of 19 mm. When tested in accordance with 8.6.1.2, test dummy, see 4.4.5, shall not fall out of the restraint system. It shall be noted that any partial movement of the test dummy is not considered a failure. During the test specified in 8.6.1.2, fasteners shall not be released or have suffered damage and shall continue to function as intended and the maximum slippage of strap adjusters shall be 20 mm.	Complied	P
8.6.2	Carer's attachment system		
8.6.2.1	General		
	The carer's attachment system shall be adjustable.	Complied	P
8.6.2.2	Slippage of carer's attachment system		
8.6.2.2.1	Requirement		
	When tested in accordance with 8.6.2.2.2, the maximum slippage of any of the carer's attachment straps on the framed back carrier shall be 20 mm.	Complied	P
8.6.3	Structural integrity		
8.6.3.1	Requirement		
	After testing to 8.6.3.2, the framed back carrier shall still function as intended.	Complied	P
9	Suffocation hazards from packaging materials		
	Any plastic covering used for packaging with an area greater than 100 mm x 100 mm shall conform to at least one of the following requirements: a) have an average sheet thickness of 0,038 mm or more; or	Complied	P



Clause	Requirement	Result	Verdict
	<p>b) be perforated with defined holes so that a minimum of 1 % of the area has been removed over any area of 30 mm x 30 mm.</p> <p>Any plastic covering used for packaging with an opening perimeter greater than 360 mm shall not have a drawstring or cord as a means of closing and shall be marked in the official language(s) of the country in which the framed back carrier is sold with the following statement:</p> <p>'Keep plastic covering away from children to avoid suffocation'.</p> <p>This statement may be expressed in different words providing they clearly convey the same warning/message. The text shall be accompanied by the symbol of the warning triangle (⚠). The symbol can be displayed at the top of the list of warnings when different languages are used.</p> <p>Shrunk-on films that are destroyed when the packaging is opened by the user are excluded from these requirements.</p>		
10	Product information	Complied	P

Abbreviation: P = Pass; N/A = Not Applicable.

1.1. Migration of certain elements

Test with reference to EN 71-3:2019+A1:2021, determination by ICP-MS.

Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]	
			001	006
Soluble Aluminum	5.00	28130	1260	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	515	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	2.25	<0.04
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	7.40	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	10.6	<5.00
Conclusion			Pass	Pass

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Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]	
			008	009
Soluble Aluminum	5.00	28130	<5.00	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	0.550
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	<5.00
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 009 is 69.00 mg

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Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]	
			011	012
Soluble Aluminum	5.00	28130	<5.00	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	0.604
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	6.05	<5.00
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 011 is 96.00 mg

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Parameter	MDL [mg/kg]	Limit in scraped- off toy materials [mg/kg]	Result(s) [mg/kg]	
			013	017
Soluble Aluminum	5.00	28130	<5.00	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	0.435
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	9.65	<5.00
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 013 is 96.00 mg

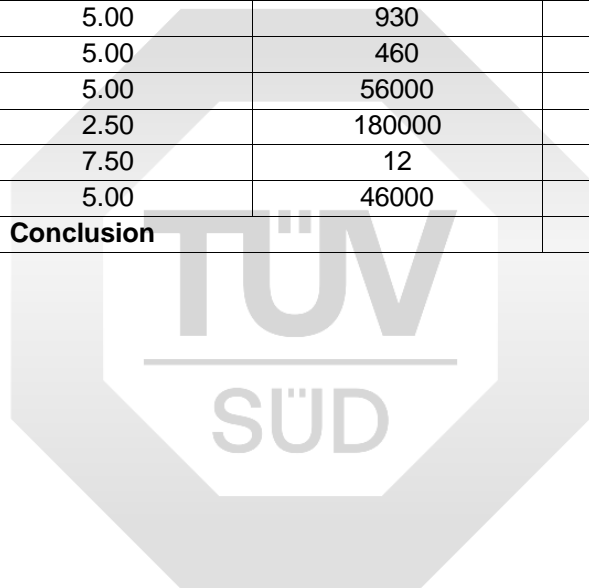
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Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]	
			018	019
Soluble Aluminum	5.00	28130	<5.00	11.5
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	0.300
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	41.0	154
Conclusion			Pass	Pass



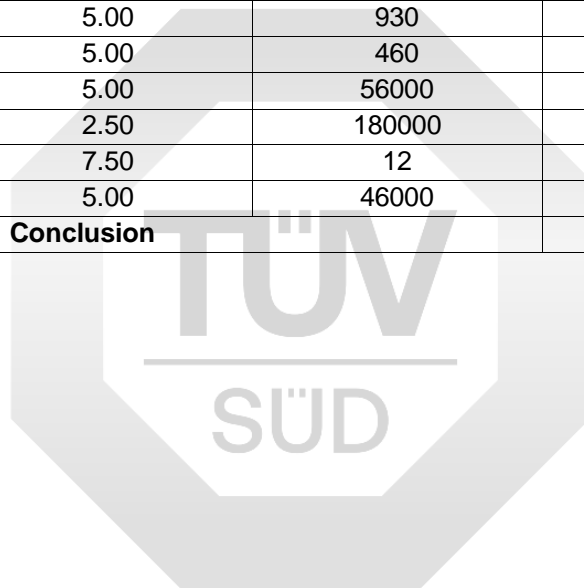
Test Report**No.: 70.452.21.14865.01****Date: 2023-10-12**

Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]	
			020	023
Soluble Aluminum	5.00	28130	8.80	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	<0.04
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	17.9	486
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 020 is 78.00 mg

Test Report**No.: 70.452.21.14865.01****Date: 2023-10-12**

Parameter	MDL [mg/kg]	Limit in scraped- off toy materials [mg/kg]	Result(s) [mg/kg]	
			024	025
Soluble Aluminum	5.00	28130	<5.00	5.68
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	<0.04
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	10.1	6.99
Conclusion			Pass	Pass



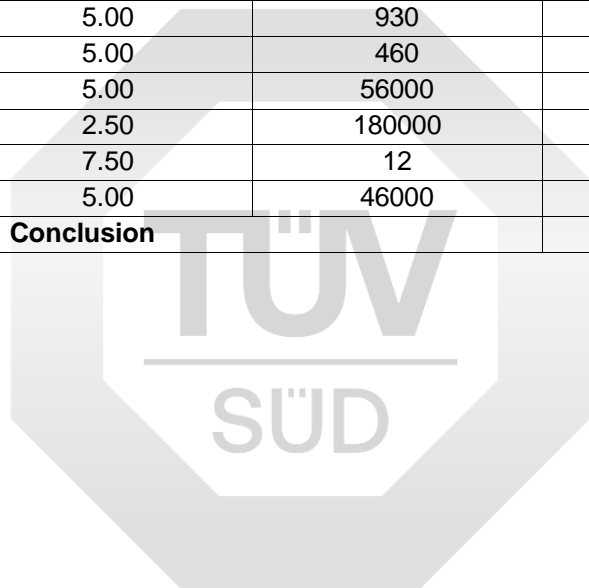
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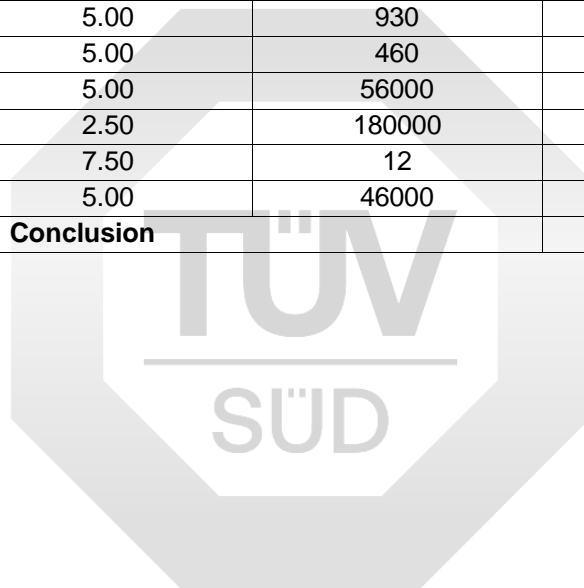


Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]	
			026	027
Soluble Aluminum	5.00	28130	<5.00	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	0.450
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	7.39	<5.00
Conclusion			Pass	Pass



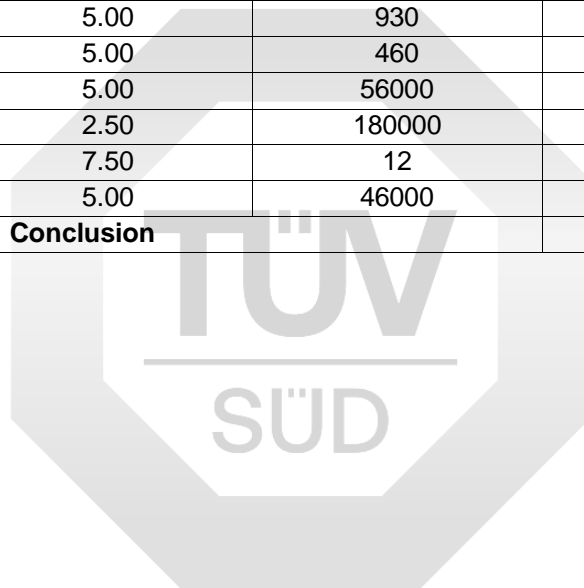
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Parameter	MDL [mg/kg]	Limit in scraped- off toy materials [mg/kg]	Result(s) [mg/kg]	
			028	029
Soluble Aluminum	5.00	28130	<5.00	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	<0.04
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	8.35	<5.00
Conclusion			Pass	Pass



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Parameter	MDL [mg/kg]	Limit in scraped- off toy materials [mg/kg]	Result(s) [mg/kg]	
			031	032
Soluble Aluminum	5.00	28130	<5.00	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	<0.04
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	<5.00
Conclusion			Pass	Pass



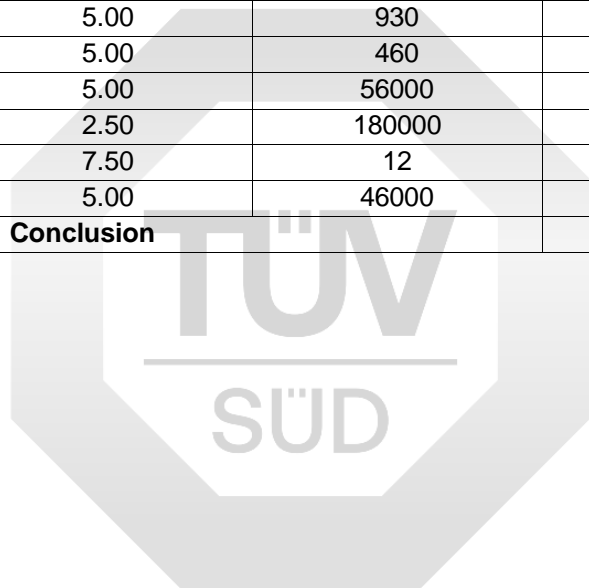
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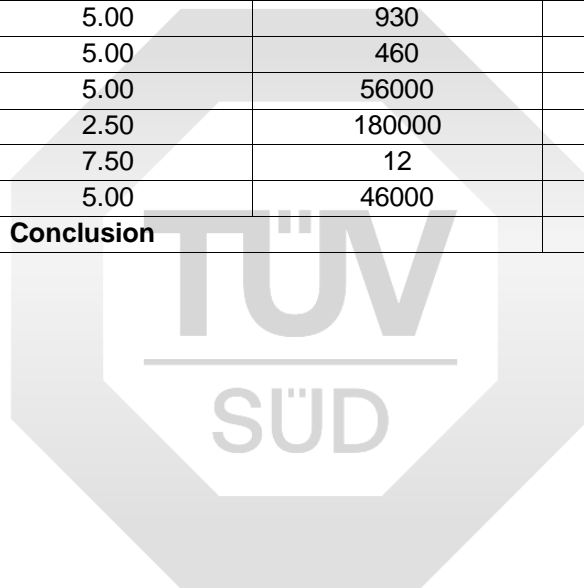


Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]	
			033	034
Soluble Aluminum	5.00	28130	<5.00	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	0.150
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	5.70	6.30
Conclusion			Pass	Pass



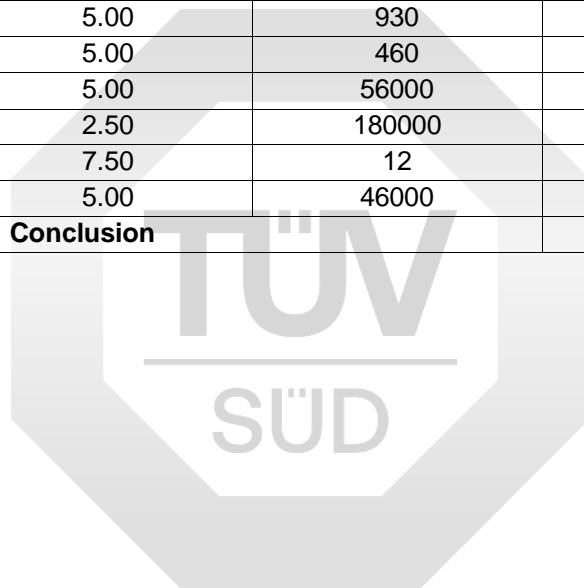
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Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]	
			035	036
Soluble Aluminum	5.00	28130	<5.00	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	<0.04
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	5.20
Conclusion			Pass	Pass



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Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]	
			038	039
Soluble Aluminum	5.00	28130	6.25	10.5
Soluble Antimony	5.00	560	6.55	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	0.100
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	13.0	6.60
Conclusion			Pass	Pass



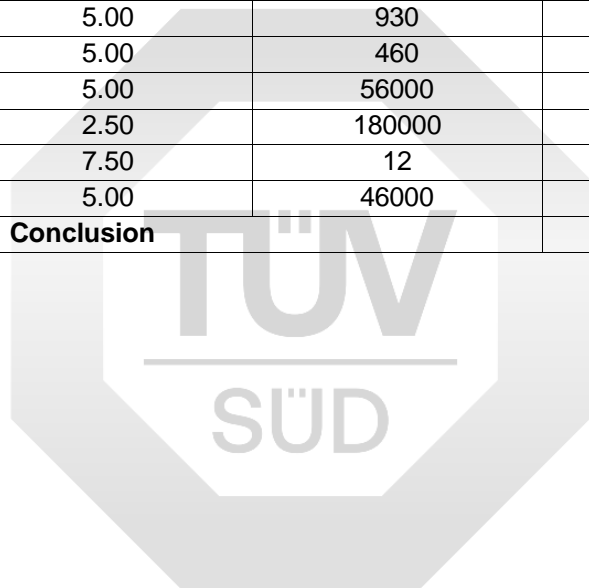
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Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]	
			040	043
Soluble Aluminum	5.00	28130	<5.00	7.15
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	0.350
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	7.95
Conclusion			Pass	Pass



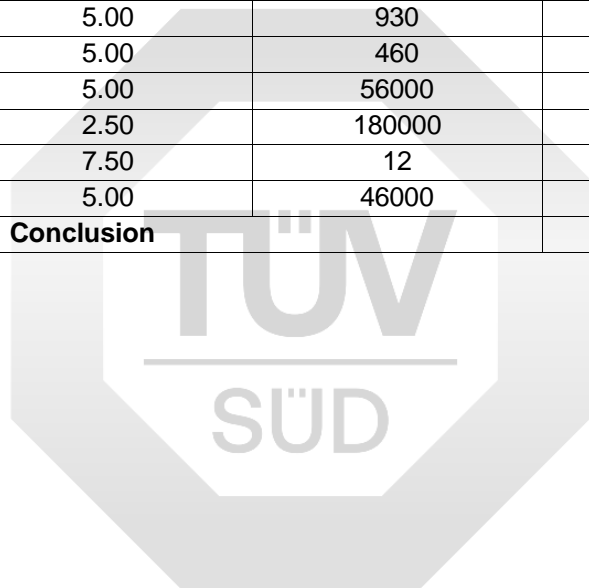
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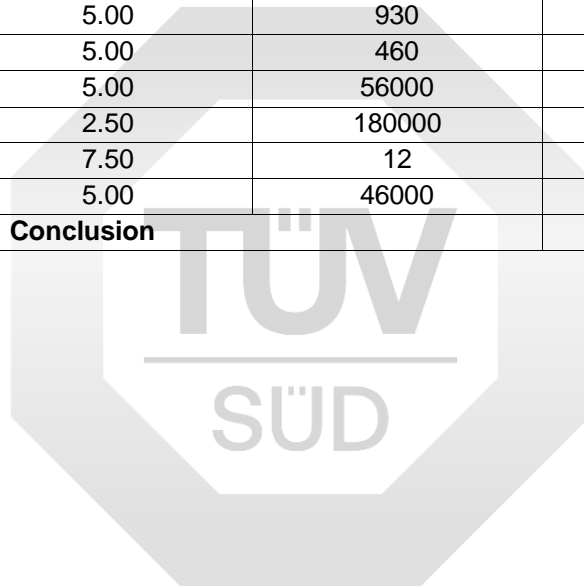


Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]	
			044	045
Soluble Aluminum	5.00	28130	<5.00	7.34
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	0.151
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	6.64
Conclusion			Pass	Pass



Test Report**No.: 70.452.21.14865.01****Date: 2023-10-12**

Parameter	MDL [mg/kg]	Limit in scraped-off toy materials [mg/kg]	Result(s) [mg/kg]
			046
Soluble Aluminum	5.00	28130	<5.00
Soluble Antimony	5.00	560	<5.00
Soluble Arsenic	5.00	47	<5.00
Soluble Barium	5.00	18750	<5.00
Soluble Boron	5.00	15000	<5.00
Soluble Cadmium	5.00	17	<5.00
Soluble Chromium III	0.04	460	<0.04
Soluble Chromium VI	0.04	0.053	<0.04
Soluble Cobalt	5.00	130	<5.00
Soluble Copper	5.00	7700	<5.00
Soluble Lead	5.00	23	<5.00
Soluble Manganese	5.00	15000	<5.00
Soluble Mercury	5.00	94	<5.00
Soluble Nickel	5.00	930	<5.00
Soluble Selenium	5.00	460	<5.00
Soluble Strontium	5.00	56000	<5.00
Soluble Tin	2.50	180000	<2.50
Organic Tin	7.50	12	<7.50
Soluble Zinc	5.00	46000	<5.00
Conclusion			Pass



Test Report**No.: 70.452.21.14865.01****Date: 2023-10-12**

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			052	054
Soluble Aluminum	5.00	28130	11.2	13.6
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	7.35	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.200	0.100
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	669	ND
Conclusion			Pass	Pass

Test Report**No.: 70.452.21.14865.01****Date: 2023-10-12**

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			055	056
Soluble Aluminum	5.00	28130	ND	6.40
Soluble Antimony	5.00	560	ND	7.60
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	0.150
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	9.30
Conclusion			Pass	Pass

Test Report**No.: 70.452.21.14865.01****Date: 2023-10-12**

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			057	059
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.050	0.050
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

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Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			060	061
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.050	0.050
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

Test Report**No.: 70.452.21.14865.01****Date: 2023-10-12**

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			062	063
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.050	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

Test Report**No.: 70.452.21.14865.01****Date: 2023-10-12**

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			064	065
Soluble Aluminum	5.00	28130	ND	6.20
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

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Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			066	067
Soluble Aluminum	5.00	28130	9.28	57.1
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	9.10
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.151	0.800
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	41.0
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

Test Report**No.: 70.452.21.14865.01****Date: 2023-10-12**

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			070	071
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.050	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

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Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]
			072
Soluble Aluminum	5.00	28130	ND
Soluble Antimony	5.00	560	ND
Soluble Arsenic	5.00	47	ND
Soluble Barium	5.00	18750	ND
Soluble Boron	5.00	15000	ND
Soluble Cadmium	5.00	17	ND
Soluble Chromium III	0.04	460	0.050
Soluble Chromium VI	0.04	0.053	ND
Soluble Cobalt	5.00	130	ND
Soluble Copper	5.00	7700	ND
Soluble Lead	5.00	23	ND
Soluble Manganese	5.00	15000	ND
Soluble Mercury	5.00	94	ND
Soluble Nickel	5.00	930	ND
Soluble Selenium	5.00	460	ND
Soluble Strontium	5.00	56000	ND
Soluble Tin	2.50	180000	ND
Organic Tin	7.50	12	ND
Soluble Zinc	5.00	46000	ND
Conclusion			Pass

1.2. Formaldehyde content

Test with reference to EN ISO 14184-1:2011, determination by UV-Vis.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
023	mg/kg	16	30	<16	Pass
024	mg/kg	16	30	<16	Pass
025	mg/kg	16	30	<16	Pass
026	mg/kg	16	30	<16	Pass
027	mg/kg	16	30	<16	Pass
028	mg/kg	16	30	<16	Pass
029	mg/kg	16	30	<16	Pass
031	mg/kg	16	30	<16	Pass
032	mg/kg	16	30	<16	Pass
033	mg/kg	16	30	<16	Pass
034	mg/kg	16	30	<16	Pass
035	mg/kg	16	30	<16	Pass
036	mg/kg	16	30	<16	Pass
038	mg/kg	16	30	<16	Pass
039	mg/kg	16	30	<16	Pass
040	mg/kg	16	30	<16	Pass
044	mg/kg	16	30	<16	Pass
045	mg/kg	16	30	<16	Pass
046	mg/kg	16	30	<16	Pass
054	mg/kg	16	30	<16	Pass
056	mg/kg	16	30	<16	Pass
059	mg/kg	16	30	<16	Pass
061	mg/kg	16	30	<16	Pass
063	mg/kg	16	30	<16	Pass
064	mg/kg	16	30	<16	Pass
066	mg/kg	16	30	<16	Pass
067	mg/kg	16	30	<16	Pass
070	mg/kg	16	30	<16	Pass
072	mg/kg	16	30	<16	Pass

2. ASTM F2549-22 — Standard consumer safety specification for frame child carriers & 16 CFR Part 1230 — Safety standard for frame child carriers

Clause	Requirement	Result	Verdict
5	General Requirements		
5.1	Hazardous Sharp Points or Edges —There shall be no sharp points or edges as defined by 16 CFR 1500.48 and 16 CFR 1500.49 before and after testing.	Complied	P
5.2	Small Parts —There shall be no small parts as defined by 16 CFR 1501 before testing or liberated as a result of testing to this specification.	Complied	P
5.3	Lead in Paint —The paint or surface coating on the product shall comply with 16 CFR 1303.	See result 2.1	P
5.4	Wood Parts —Prior to testing, any wooden parts shall be smooth and free of splinters.	-	N/A
5.5	Scissoring, Shearing, and Pinching —The product, when in the manufacturer's recommended use position(s), shall be designed and constructed to prevent injury to the occupant from any scissoring, shearing, or pinching when members or components rotate about a common axis or fastening point, slide, pivot, fold, or otherwise move relative to one another. Scissoring, shearing, or pinching that may cause injury exists when the edges of the rigid parts admit a probe greater than 0.210 in. (5.33 mm) and less than 0.375 in. (9.53 mm) in diameter at any accessible point throughout the range of motion of such parts.	Complied	P
5.6	Openings —Holes or slots that extend entirely through a wall section of any rigid material less than 0.375 in. (9.53 mm) thick and admit a 0.210 in. (5.33 mm) diameter rod shall also admit a 0.375 in. (9.53 mm) diameter rod. Holes or slots that are between 0.210 in. (5.33 mm) and 0.375 in. (9.53 mm) and have a wall thickness less than 0.375 in. (9.53 mm), but are limited in depth to 0.375 in. (9.53 mm) maximum by another rigid surface shall be permissible (see Fig. 2). The product shall be evaluated in all manufacturers' recommended use positions.	Complied	P
5.7	Exposed Coil Springs —Any exposed coil spring which is accessible to the occupant, having or capable of generating a space between coils of 0.210 in. (5.33 mm) or greater during static load testing (see 7.3) shall be covered or otherwise designed to prevent injury.	-	N/A
5.8	Locking and Latching —Any frame child carrier that folds, for storage or transport, shall have a latching or locking device or other provision in the design that will prevent the unit from unintentionally folding when properly placed in the manufacturer's recommended use position. The unit shall remain in its manufacturer's recommended use position during and upon completion of the test in accordance with 7.8. If a unit is designed with a latching or locking device, that device shall remain engaged and operative after testing. This requirement does not apply to the carrier kickstand.	-	N/A
5.9	Unintentional Folding —If the frame child carrier is designed to allow it to stand freely in the upright position by utilizing a kickstand or other means, the	Complied	P



Clause	Requirement	Result	Verdict
	carrier shall remain in the manufacturer's recommended use position before and after completion of all tests in 7.9.		
5.10	Labeling —Warning labels (whether paper or non-paper) shall be permanent when tested in accordance with 7.7.	Complied	P
5.10.1	Warning statements applied directly onto the surface of the product by hot stamping, heat transfer, printing, wood burning, and so forth shall be permanent when tested in accordance with 7.7.	-	N/A
5.10.2	Non-paper labels shall not liberate small parts when tested in accordance with 7.7.	Complied	P
5.11	Protective Components —If the child can grasp protective components between the thumb and forefinger, or teeth, or if there is at least a 0.04 in. (1.0 mm) gap between the component and its adjacent parent component, such component shall not be removed when tested in accordance with 7.10. All protective components that are accessible to a child in the product shall be evaluated.	Complied	P
5.12	Flammability of Frame Child Carriers:		
5.12.1	There shall be no Class 2 or 3 fabrics used in the construction of a frame child carrier when the fabrics are evaluated against the requirements of 16 CFR 1610. NOTE 1—The exemptions listed in 16 CFR sections 1610.1(d) and 1610.6(a)(1)(vi) apply when a fabric is evaluated against the requirements of 16 CFR 1610.	See remark 1	N/A
5.12.2	There shall be no flammable solids as defined in 16 CFR 1500.3(c)(6)(vi) before or after testing in accordance with this specification.	Complied	P
5.12.3	Non-toy accessories that are sold with and intended to be attached to the product shall also meet the requirements of 5.12.	-	N/A
5.13	Toys —Toy accessories attached to, removable from, or sold with a child frame carrier, as well as their means of attachment, shall comply with the applicable requirements of Consumer Safety Specification F963.	-	N/A
6	Performance Requirements		
6.1	Leg Openings —Leg openings shall not permit the passage of the Leg Opening Test Sphere when tested in accordance with 7.1.	Complied	P
6.2	Dynamic Strength —The carrier shall not create a hazardous condition, such as frame or fasteners breaking or disengaging or seams separating, and shall show no damage that will impair its function, when tested in accordance with 7.2. Seams of pockets, pouches, and other carrying receptacles are exempt from these requirements. Adjustable components in the occupant retention system and attachment system shall not slip more than 1 in. (25.4 mm) per strap as a result of the dynamic testing in accordance with 7.2.4 and 7.2.5.	Complied	P



Clause	Requirement	Result	Verdict
6.3	Static Load —The carrier shall not create a hazardous condition, such as not supporting the test weight, frame or fasteners breaking or disengaging, or seams separating, when tested in accordance with 7.3. Adjustable elements in the occupant retention system shall not slip more than 1 in. (25.4mm) when tested in accordance with 7.3.	Complied	P
6.4	Stability —If the frame child carrier is designed to allow it to stand freely in the upright position, the frame child carrier shall not tip over when tested in accordance with 7.4.	Complied	P
6.5	Retention System:		
6.5.1	A retention system, including a shoulder restraint, shall be provided to secure the occupant in a seated position in any of the manufacturer's recommended use positions.	Complied	P
6.5.2	Before shipment, the manufacturer shall attach the retention system in such a manner that it will not detach in normal usage.	Complied	P
6.5.3	If the retention system includes a crotch restraint designed to work with a lap belt, it shall be designed such that its use is mandatory when the retention system is in use.	-	N/A
6.5.4	When tested in accordance with 7.5, the restraint system and its closing means (for example, a buckle) shall not break, disengage, or separate at any seam and all fasteners shall not release or suffer damage that impairs the operation and function of the restraint system. At the end of the tests, the CAMI dummy shall not be released fully or fall out of the carrier.	Complied	P
6.6	Handle Integrity —The carrier shall not create a hazardous condition such as handle or frame breaking or disengaging or seams separating when tested in accordance with 7.6.	Complied	P
8	Marking and Labeling	Complied	P
9	Instructional Literature	Complied	P

Abbreviation: P = Pass; N/A = Not Applicable.

Remark:1. The submitted samples were not tested. According to §1610.1(d) of the regulation, the materials were subjected to specific exemptions. (Specific fabric, per 16 CFR 1610.1(d)(2)).

2.1. Total Lead Content

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10.0	90	13.9	Pass



3. CPSIA section 101(f) -Total Lead Content (surface coating)

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10.0	90	13.9	Pass

4. CPSIA section 101(a)(2) - Total Lead Content(Substrate)

Test with reference to CPSC-CH-E1001-08.3:2012 and CPSC-CH-E1002-08.3:2012, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
006+008+009	mg/kg	10.0	100	ND	Pass
011+012+013	mg/kg	10.0	100	ND	Pass
017+018+055	mg/kg	10.0	100	ND	Pass
019+020+052	mg/kg	10.0	100	ND	Pass
023	mg/kg	10.0	100	ND	Pass
024	mg/kg	10	100	ND	Pass
025	mg/kg	10	100	ND	Pass
047	mg/kg	10	100	ND	Pass
048	mg/kg	10	100	ND	Pass
049	mg/kg	10	100	ND	Pass
051	mg/kg	10	100	40.1	Pass
056+057+060	mg/kg	10.0	100	ND	Pass
058	mg/kg	10.0	100	ND	Pass
059+064+070	mg/kg	10.0	100	ND	Pass
062+065+071	mg/kg	10.0	100	ND	Pass
067	mg/kg	10.0	100	ND	Pass
068	mg/kg	10.0	100	40.9	Pass
069	mg/kg	10.0	100	25.9	Pass



5. CPSIA, § 108, 16 CFR 1307- Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001	006+008+009
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					011+012+013	017+018+055
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					019+020+052	023
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					024	025
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	0.038	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					056+057+060	059+064+070
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	0.006	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					062+065+071	067
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass



6. Canada Consumer Products Containing Lead Regulations (SOR/2018-83) -Total Lead Content

Test with reference to CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, CPSC-CH-E1003-09.1, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10.0	90	13.9	Pass
006+008+009	mg/kg	10.0	90	ND	Pass
011+012+013	mg/kg	10.0	90	ND	Pass
017+018+055	mg/kg	10.0	90	ND	Pass
019+020+052	mg/kg	10.0	90	ND	Pass
023	mg/kg	10.0	90	ND	Pass
024	mg/kg	10.0	90	ND	Pass
025	mg/kg	10.0	90	ND	Pass
026+027+028	mg/kg	10.0	90	ND	Pass
029+031+032	mg/kg	10.0	90	ND	Pass
033+034+035	mg/kg	10.0	90	ND	Pass
036+038+039	mg/kg	10.0	90	ND	Pass
040+043+044	mg/kg	10.0	90	ND	Pass
045+046+054	mg/kg	10.0	90	ND	Pass
047	mg/kg	10.0	90	ND	Pass
048	mg/kg	10.0	90	ND	Pass
049	mg/kg	10.0	90	ND	Pass
051	mg/kg	10.0	90	40.1	Pass
056+057+060	mg/kg	10.0	90	ND	Pass
058	mg/kg	10.0	90	ND	Pass
059+064+070	mg/kg	10.0	90	ND	Pass
061+063+072	mg/kg	10.0	90	ND	Pass
062+065+071	mg/kg	10.0	90	ND	Pass
066	mg/kg	10.0	90	ND	Pass
067	mg/kg	10.0	90	ND	Pass
068	mg/kg	10.0	90	40.9	Pass
069	mg/kg	10.0	90	25.9	Pass

-End of Test Report-