

Date: 22-Feb-2021 Report No.: STSGZ2101263010 Page 1 of 43 CARPENTERS MANUFACTORY LIMITED **Applicant :** HUANG JIN JI INDUSTRIAL ZONE, SHANG JIE VILLAGE, QI SHI TOWN, DONG GUAN Address: CITY, GUANG DONG PROVINCE, P.R.CHINA The following sample(s) and sample information was/were submitted and identified by client as: Wall Elements - Household Waste Classification, Wall Elements - Hand Coordination Sample Name: Training Gears, Wall Elements - Renewable Energy and Non-Renewable Energy, 1-10 Counting Magnetic Maze, Wall Element - Muscular and Skeletal Systems ME16423, ME14719, ME15501, ME14542, ME15778 Model/Style/Item #: Series Model#: **Brand/Customer:** Supplier/Manufacturer: Supplier/Manufacturer Address: Labeled Age Grading: Not Provided **Requested Age** 3+ Grading: **Tested Age Grading:** 3+26-Jan-2021 **Receiving Date: Test Period:** From 26-Jan-2021 to 2-Feb-2021 Add Information:

Signed for and on behalf of STS

TESTING SERVICES

Kevin Liu (Chemical Test Manager)



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Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Safety of Toys: Mechanical and Physical Properties	EN 71-1:2014+A1:2018	PASS
2	General labeling requirement(CE marking, manufacturer/importer name and address, and product identification)	2009/48/EC	PASS
3	Safety of Toys: Flammability	EN 71-2:2011+A1:2014	PASS
4	Safety of Toys: Migration of Certain Elements	EN 71-3:2019	PASS
5	Phthalate content (DIBP、DEHP、DBP、BBP、 DINP、DIDP、DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS
6	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
7	Mechanical and Physical Propertie	ASTM F963-17	
8	Flammability of Solids	16 CFR 1500.44 / ASTM F963-17, A5	
9	Soluble Migrated Elements ASTM F963-17	ASTM F963-17, determined by ICP-OES	PASS
10	Lead Content (Pb) ASTM F963-17	CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non- metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS	PASS
11	Lead Content (Pb) CPSIA H.R. 4040 Sec. 101	CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non- metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS	PASS
12	Lead Content (Pb) - 16 CFR 1303	CPSC-CH-E1003-09.1(Surface Coating) ,determined by AAS	PASS
13	Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP)-Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment &16 CFR Part 1307	CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS	PASS
14	Mechanical and Physical Properties	SOR/2011-17	PASS
15	Flammability	SOR/2011-17	PASS
16	Lead Content (Pb) and Mercury Content (Hg) SOR/2011-17	SOR/2011-17, determined by ICP-OES	PASS
17	Soluble Migrated Elements SOR/2011-17	SOR/2011-17, determined by ICP-OES	PASS
18	Mechanical and Physical Propertie - Australian/New Zealand Standard on Safety of Toys	AS/NZS 8124.1:2016	PASS
19	Flammability Properties - Australian/New Zealand Standard on Safety of Toys	AS/NZS 8124.2:2016	PASS
20	Soluble elements Content- Australian/New Zealand Standard on Safety of Toys	AS/NZS 8124.3:2012+A1:2016, determined by ICP	PASS



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			19	
21	Phthalates content- As Client's Requirement	CPSC-CH-C1001-09.4, determined by CC-MS	SEE RESULT	
		\frown		

PASS

Result:

1. Safety of Toys: Mechanical and Physical Properties – EN 71-1:2014+A1:2018

Clause Parameter Results 4 General requirements 4.1 Material cleanliness Pass 4.2 Assembly Pass 4.3 Flexible plastic sheeting NA 4.4 Toy bags NA 4.5 Glass NA Expanding materials NA 4.6 4.7 Edges Pass Points and metallic wires Pass 4.8 4.9 Protruding parts Pass 4.10 Parts moving against each other NA Mouth-actuated toys and other toys intended to 4.11 NA be put in the mouth 4.12 Balloons NA 4.13 Cords of toy kites and other flying toys NA 4.14 Enclosures Pass 4.15 Toys intended to bear the mass of a child NA 4.16 Heavy immobile toys Pass



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		51-
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	Pass
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirement	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid-filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA



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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	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys otherwise intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA

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

Remark(s): NA = Not Applicable

2. General labeling requirement - 2009/48/EC

ltem(s)	Results
CE Mark	Pass
Manufacturer/importer name and address	Pass
Product identification	Pass

3. Safety of Toys: Flammability – EN 71-2:2011+A1:2014

Clause	Parameter	Results
4.1	General requirements	Pass
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA

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PASS



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4.5	Soft-filled toys	NA

Remark(s): NA = Not Applicable

4. Safety of Toys: Migration of Certain Elements EN 71-3:2019 General elements determined by ICP-MS Chromium(VI) determined by IC-ICP-MS Organic tin determined by GC-MS

			Mate	erial			
	Compound		Catego	ry III*¹		Limit (mg/kg)	RL (mg/kg)
		1	2	3	4		
1	Aluminum (Al)	N.D.	N.D.	24	15	70000	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	10
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	5
4	Barium(Ba)	N.D.	N.D.	N.D.	N.D.	18750	10
5	Boron (B)	12	N.D.	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	5
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	10
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.053
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	10
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	5
12	Manganese (Mn)	163	N.D.	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	10
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	10
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	10
16	Strontium (Sr)	N.D.	13	N.D.	N.D.	56000	10

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	Conclusion	PASS	PASS	PASS	PASS	-	-
19	Zinc (Zn)	N.D.	39	1455	N.D.	46000	10
18	Organic tin (Sn)	N.D.*2	N.D.*2	N.D.*2	N.D.*2	12 ^{*2}	0.2*2
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9

			Mate	rial				
	Compound	Category III ^{*1}				Limit (mg/kg)	RL (mg/kg)	
	-	5	6	7	8	_		
1	Aluminum (Al)	N.D.	N.D.	N.D.	N.D.	70000	10	
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	10	
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	5	
4	Barium(Ba)	N.D.	N.D.	N.D.	N.D.	18750	10	
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	15000	10	
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	5	
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	10	
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.053	
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	10	
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10	
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	5	
12	Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	15000	10	
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	10	
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	10	
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	10	
16	Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	56000	10	
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9	

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	Conclusion	PASS	PASS	PASS	PASS	-	-
19	Zinc (Zn)	117	N.D.	N.D.	N.D.	46000	10
18	Organic tin (Sn)	N.D.*2	N.D.*2	N.D.*2	N.D.*2	12 ^{*2}	0.2 ^{*2}

			Mat				
	Compound		Limit (mg/kg)	RL (mg/kg)			
		9	10	11	12	-	
1	Aluminum (Al)	N.D.	119	N.D.	23	70000	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	10
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	5
4	Barium(Ba)	N.D.	N.D.	N.D.	N.D.	18750	10
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	5
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	10
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.053
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	10
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	5
12	Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	10
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	10
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	10
16	Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	56000	10
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	N.D.*2	N.D.*2	N.D.*2	12 ^{*2}	0.2*2

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19	Zinc (Zn)	351	N.D.	N.D.	N.D.	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound			Limit (mg/kg)	RL (mg/kg)		
		13	14	15	16		
1	Aluminum (Al)	N.D.	N.D.	189	26	70000	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	10
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	5
4	Barium(Ba)	N.D.	N.D.	N.D.	N.D.	18750	10
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	5
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	10
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.053
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	10
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	5
12	Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	10
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	10
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	10
16	Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	56000	10
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	N.D.*2	N.D.*2	N.D.*2	12 ^{*2}	0.2 ^{*2}
19	Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	46000	10

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	Conclusion	PASS	PASS	PASS	PASS	-	-
			· ·				
			Mater			Limit	RL
	Compound	Category III ^{*1}					(mg/kg)
		17	18		19		
1	Aluminum (Al)	N.D.	N.D		10	70000	10
2	Antimony (Sb)	N.D.	N.D		N.D.	560	10
3	Arsenic(As)	N.D.	N.D	•	N.D.	47	5
4	Barium(Ba)	N.D.	N.D		7	18750	10
5	Boron (B)	N.D.	N.D		16	15000	10
6	Cadmium (Cd)	N.D.	N.D		N.D.	17	5
7	Chromium (III) (Cr)	N.D.	N.D		N.D.	460	10
8	Chromium (VI) (Cr)	N.D.	N.D		N.D.	0.053	0.053
9	Cobalt (Co)	N.D.	N.D		N.D.	130	10
10	Copper (Cu)	N.D.	N.D		N.D.	7700	10
11	Lead(Pb)	N.D.	N.D	.)	N.D.	23	5
12	Manganese (Mn)	N.D.	N.D		N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D		N.D.	94	10
14	Nickel (Ni)	N.D.	N.D		N.D.	930	10
15	Selenium(Se)	N.D.	N.D		N.D.	460	10
16	Strontium (Sr)	N.D.	N.D		N.D.	56000	10
17	Tin (Sn)	N.D.	N.D		N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	N.D.	*2	N.D.*2	12 ^{*2}	0.2*2
19	Zinc (Zn)	N.D.	N.D		N.D.	46000	10
	Conclusion	PASS	PAS	s	PASS	-	-

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Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm (b) RL: Report limit (c) N.D.: Not detected (result is less than RL)
*1: Categories of various materials: Category II: Dry, brittle, powder like or pliable material Category II: Liquid or sticky material Category III: Scraped-off material *2: Expressed as soluble Tributyltin.

5. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

		A I		Mat	Limit	RL		
		Compound	2	3	4	5	(%)	(%)
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	- (0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	- 🤄	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	-	0.005
8	Sum of	1, 2, 3 & 4	N.D.	N.D.	N.D.	N.D.	0.1	-
9	Sum of	5, 6 & 7	N.D.	N.D.	N.D.	N.D.	0.1	-
	Conclu	sion	PASS	PASS	PASS	PASS	-	-

	Compound			Mate	Limit	RL		
			6	7	8	10	(%)	(%)
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	-	0.005

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	Conclu	sion	PASS	PASS	PASS	PASS	-	-
9	Sum of	5, 6 & 7	N.D.	N.D.	N.D.	N.D.	0.1	-
8	Sum of	1, 2, 3 & 4	N.D.	N.D.	N.D.	N.D.	0.1	-
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	_	0.005

		0 annual d		Mat	Material			RL
		Compound	11	12	13	14	(%)	(%)
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	- (0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	- 🤘	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	-	0.005
8	Sum of	1, 2, 3 & 4	N.D.	N.D.	N.D.	N.D.	0.1	-
9	Sum of	5, 6 & 7	N.D.	N.D.	N.D.	N.D.	0.1	-
	Conclu	sion	PASS	PASS	PASS	PASS	-	-

		Compound		Mat	Limit	RL		
		Compound	15	16	17	18	(%)	(%)
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	-	0.005

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	Conclu	sion	PASS	PASS	PASS	PASS	-	-
9	Sum of	5, 6 & 7	N.D.	N.D.	N.D.	N.D.	0.1	-
8	Sum of	1, 2, 3 & 4	N.D.	N.D.	N.D.	N.D.	0.1	-
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	_	0.005

			Material	Limit	RL
		Compound	22	(%)	(%)
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	- (0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	- 🤘	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	-	0.005
8	Sum of	1, 2, 3 & 4	N.D.	0.1	-
9	Sum of	5, 6 & 7	N.D.	0.1	-
	Conclu	sion	PASS	-	-

Remark(s): (a) RL: Report limit

(b) N.D.: Not detected (result is less than RL)

6. Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound			Material				RL	
	Compound	2	3	4	5	(mg/kg)	(mg/kg)	
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	100	10	

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	Conclusion	PASS	PASS	PASS	PASS	-	-	
Compound			Mat	erial		Limit	RL	
		6	7	8	10	(mg/kg)	(mg/kg)	
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	100	10	
	Conclusion	PASS	PASS	PASS	PASS	-	-	

Compound			Mat	erial		Limit	RL
	Compound	11	12	13	14	(mg/kg)	(mg/kg) 10
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound			Mat	erial		Limit	RL
	Compound	14	16	17	18	(mg/kg)	(mg/kg) 10
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound	Material 22	Limit (mg/kg)	RL (mg/kg)
1	Cadmium (Cd) CAS#7440-43-9	N.D.	100	10
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit (c) N.D.: Not detected (result is less than RL)

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PASS

7. Mechanical and Physical Properties – ASTM F963-17

Clause	Parameter	Results
4	Safety Requirements	
4.1	Material Quality	Pass
4.4	Electrical / Thermal Energy	NA
4.5	Sound-Producing Toys	NA
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.8	Projections	NA
4.9	Accessible Points	Pass
4.10	Wires or Rods	NA
4.11	Nails and Fasteners	Pass
4.12	Plastic Film	NA
4.13	Folding Mechanisms and Hinges	Pass
4.14	Cords, Straps, and Elastics	NA
4.15	Stability and Over-Load Requirements	Pass
4.16	Confined Spaces	Pass
4.17	Wheels, Tires, and Axles	NA
4.18	Holes, Clearance, and Accessibility of Mechanisms	NA
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers and Teething Toys	NA



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4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.26	Toys Intended to be Attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	Pass
4.39	Jaw Entrapments in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labeling Requirements	
5.1	Federal Government Requirements	NA
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.4	Aquatic Toys	NA
5.5	Crib and Playpen Toys	NA

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5.6	Mobiles	NA
5.7	Stroller and Carriage Toys	NA
5.8	Toys Intended to be Assembled by an Adult	Pass
5.9	Simulated Protective Devices	NA
5.10	Toys with Functional Sharp Edges or Points	NA
5.11	Small Objects, Small Balls, Marbles, and Balloons	NA
5.12	Toy Caps	NA
5.13	Art Materials	NA
5.14	Electric Toys	NA
5.16	Promotional Materials	NA
5.17	Magnets	NA
6	Instructional Literature	
6.1	Definition and Description	Pass
6.2	Crib and Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys Intended to be Assembled by an Adult	Pass
6.7	Toys in Contact with Food	NA
6.8	Toy Chests	NA
7	Producer's Markings	Pass
8	Test Methods	
8.5	Normal Use Testing	Pass
8.6	Abuse Testing	Pass
8.7	Impact Tests	Pass
8.8	Torque Tests for Removal of Components	Pass

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PASS

8.9	Tension Tests for Removal of Components	Pass
8.10	Compression Tests	Pass

Remark(s): NA = Not Applicable

8. Flammability of Solids – 16 CFR 1500.44 / ASTM F963-17, A5

Clause	Parameter	Results
16 CFR 1500.44 / ASTM F963-17, A5	Flammability	Pass

9. Soluble Migrated Elements ASTM F963-17, determined by ICP-OES

Compound			Mat	erial		Limit	RL
		1	2	3	4	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound		Limit	RL			
	Compound	5	6	7	8	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2

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	Conclusion	PASS	PASS	PASS	PASS	-	-
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5

	O anno ann d		Mat	Limit	RL		
	Compound	9	10	11	12	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	27	N.D.	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound			Mat	Limit	RL		
	Compound	13	14	15	16	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5

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			1				
	Conclusion	PASS	PASS	PASS	PASS	-	-
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5

	Compound		Material		Limit	RL	
	Compound	17	18	19	(mg/kg)	(mg/kg)	
1	Antimony (Sb)	N.D.	N.D.	N.D.	60	5	
2	Arsenic (As)	N.D.	N.D.	N.D.	25	2	
3	Barium (Ba)	N.D.	N.D.	N.D.	1000	5	
4	Cadmium (Cd)	N.D.	N.D.	N.D.	75	5	
5	Chromium (Cr)	N.D.	N.D.	N.D.	60	5	
6	Lead (Pb)	N.D.	N.D.	N.D.	90	5	
7	Mercury (Hg)	N.D.	N.D.	N.D.	60	5	
8	Selenium (Se)	N.D.	N.D.	N.D.	500	5	
	Conclusion	PASS	PASS	PASS	-	-	

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit (c) N.D.: Not detected (result is less than RL)

10. Lead Content (Pb) – ASTM F963-17

CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS

	Compound		Limit	RL			
	Compound	2	7	8	10	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-



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	Compound		Mat	Limit	RL		
	Compound	11	12	13	14	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	0 ann ann d		Mat	Limit	RL		
	Compound	15	17	18	20	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

		Compound	Material	Limit	RL
			21	(mg/kg)	(mg/kg)
-	1	Lead (Pb)	N.D.	100	10
		Conclusion	PASS	-	-

	Compound	Material				Limit	RL
	Compound	3	4	5	6	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound	Material 16	Limit (mg/kg)	RL (mg/kg)
1	Lead (Pb)	N.D.	90	10
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit (c) N.D.: Not detected (result is less than RL)



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11. Lead Content (Pb) - CPSIA H.R. 4040 Sec. 101

CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS

O a man a un d			Limit	RL			
	Compound	2	7	8	10	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound		Mat	erial		Limit	RL
	Compound	11	12	13	14	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound		Mat	Limit	RL		
	Compound	15	17	18	20	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound	Material 21	Limit (mg/kg)	RL (mg/kg)
1	Lead (Pb)	N.D.	100	10
	Conclusion	PASS	-	-

		Compound		Mate	Limit	RL		
>		Compound	3	4	5	6	(mg/kg)	(mg/kg)
1	1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	10
		Conclusion	PASS	PASS	PASS	PASS	-	-

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		Material	Limit	RL	
	Compound	16	(mg/kg)	(mg/kg)	
1 I	Lead (Pb)	N.D.	90	10	
(Conclusion	PASS	-	-	

12. Lead Content (Pb) - 16 CFR 1303 CPSC-CH-E1003-09.1(Surface Coating) ,determined by AAS

			Mat	erial			
	Compound		Limit	RL			
		3	4	5	6	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	10
	Conclusion	PASS	PASS	PASS	PASS	-	-
				1			1

	Compound	Material 16	Limit (mg/kg)	RL (mg/kg)
1	Lead (Pb)	N.D.	90	10
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit (c) N.D.: Not detected (result is less than RL)

Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP)-Consumer Product Safety 13. Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment &16 CFR Part 1307. CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS

	Compound			Limit	RL			
			2	3	4	5	(%)	(%)
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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	Conclus	ion	PASS	PASS	PASS	PASS	-	-
8	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0,68515- 48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DCHP	Dicyclohexly Phthalate CAS# 84-61-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DEHP	Bis (2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DHEXP	Di-n-hexyl Phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DPENP	Di-n-pentyl Phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005

	0.			Mat	erial		Limit	RL
	Co	ompound	6	7	8	10	(%)	(%)
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DPENP	Di-n-pentyl Phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DHEXP	Di-n-hexyl Phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DEHP	Bis (2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DCHP	Dicyclohexly Phthalate CAS# 84-61-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0,68515- 48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclus	ion	PASS	PASS	PASS	PASS	-	-

	6.	manuad		Mat	erial		Limit	RL
	Compound		11	12	13	14	(%)	(%)
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DPENP	Di-n-pentyl Phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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	Conclus	ion	PASS	PASS	PASS	PASS	-	-
8	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0,68515- 48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DCHP	Dicyclohexly Phthalate CAS# 84-61-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DEHP	Bis (2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DHEXP	Di-n-hexyl Phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005

	Co	mound	Material			Limit	RL	
	0	mpound	15	16	17	18	(%)	(%)
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DPENP	Di-n-pentyl Phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DHEXP	Di-n-hexyl Phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DEHP	Bis (2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DCHP	Dicyclohexly Phthalate CAS# 84-61-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0,68515- 48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclus	ion	PASS	PASS	PASS	PASS	-	-

Remark(s): (a) RL: Report limit

(b) N.D.: Not detected (result is less than RL)

14. Mechanical and Physical Properties – SOR/2011-17

Clause	Parameter	Results
3	Official languages	NA
4	Flexible film bags	NA

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7	Small parts	Pass
8	Metal edges	Pass
9	Wire frames	NA
10	Plastic edges	NA
11	Wood	Pass
12	Glass	NA
13	Fasteners	Pass
14	Safety stops or locking devices	NA
15	Spring-wound driving mechanisms	NA
16	Projectile components	NA
17	Enclosures	NA
18	Stability	Pass
19	Decibel limit	NA
28	Dolls, plush toys and soft toys – Fastenings	NA
29	Dolls, plush toys and soft toys – Stuffing	NA
30	Dolls, plush toys and soft toys – Small parts	NA
31	Dolls, plush toys and soft toys – Eyes and noses	NA
35	Plant seeds – Noise	NA
36	Plant seeds – stuffing material	NA
37	Pull and push toys	NA
38	Toys steam engines	NA
39	Finger paints	NA
40	Rattles	NA
41	Elastics	NA



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PASS

	/		
42	Yo-yo type balls		NA
43	Magnetic toys		NA

Remark(s): NA = Not Applicable

15. Flammability - SOR/2011-17

Clause	Parameter	Results
21	Celluloid or cellulose nitrate	Pass
32	Dolls, plush toys and soft toys – Flammability of outer covering	NA
33	Dolls, plush toys and soft toys – Flammability of yarn	NA
34	Dolls, plush toys and soft toys – Flammability of hair or mane	NA

16. Lead Content (Pb) and Mercury Content (Hg) SOR/2011-17, determined by ICP-OES

	Compound		Mate	erial		Limit (mg/kg)	RL
	Compound	3	4	5	6		(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	10
2	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	Not Detected	5
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound	Material	Limit	RL
	Compound	16	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	90	10
2	Mercury (Hg)	N.D.	Not Detected	5
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm

(c) N.D.: Not detected (result is less than RL)

⁽b) RL: Report limit



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17. Soluble Migrated Elements SOR/2011-17, determined by ICP-OES

O a man a ma d		Mate	erial		Limit	RL
Compound	ompound 3 4		5	6	(mg/kg)	(mg/kg)
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	1000	5
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	1000	2
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	1000	5
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	1000	5
Conclusion	PASS	PASS	PASS	PASS	-	-
	Arsenic (As) Barium (Ba) Cadmium (Cd) Selenium (Se)	3Antimony (Sb)N.D.Arsenic (As)N.D.Barium (Ba)N.D.Cadmium (Cd)N.D.Selenium (Se)N.D.	Compound34Antimony (Sb)N.D.N.D.Arsenic (As)N.D.N.D.Barium (Ba)N.D.N.D.Cadmium (Cd)N.D.N.D.Selenium (Se)N.D.N.D.	345Antimony (Sb)N.D.N.D.N.D.Arsenic (As)N.D.N.D.N.D.Barium (Ba)N.D.N.D.N.D.Cadmium (Cd)N.D.N.D.N.D.Selenium (Se)N.D.N.D.N.D.	Compound3456Antimony (Sb)N.D.N.D.N.D.Arsenic (As)N.D.N.D.N.D.N.D.Barium (Ba)N.D.N.D.N.D.N.D.Cadmium (Cd)N.D.N.D.N.D.N.D.Selenium (Se)N.D.N.D.N.D.N.D.	Compound 3 4 5 6 Limit (mg/kg) Antimony (Sb) N.D. N.D. N.D. N.D. 1000 Arsenic (As) N.D. N.D. N.D. N.D. 1000 Barium (Ba) N.D. N.D. N.D. N.D. 1000 Cadmium (Cd) N.D. N.D. N.D. 1000 Selenium (Se) N.D. N.D. N.D. 1000

	Compound	Material	Limit	RL
	Compound	16	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	1000	5
2	Arsenic (As)	N.D.	1000	2
3	Barium (Ba)	N.D.	1000	5
4	Cadmium (Cd)	N.D.	1000	5
5	Selenium (Se)	N.D.	1000	5
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm (b) RL: Report limit (c) N.D.: Not detected (result is less than RL)

18. Mechanical and Physical Properties - Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.1:2016

Section	Testing Items		Assessment
4	Requirements		
4.1	Normal use	\bigcirc	Pass



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Section	Testing Items	Assessment
4.2	Reasonably foreseeable abuse	Pass
4.3	Material	Pass
4.4	Small parts	Pass
4.5	Shape, size, and strength of certain toys	NA
4.6	Edges	Pass
4.7	Points	Pass
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	NA
4.11	Cords and elastics	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	NA
4.14	Springs	NA
4.15	Stability and overload requirements	Pass
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles.	NA
4.18	Projectile toys	NA
4.19	Rotors and propellers	NA
4.20	Aquatic toys	NA
4.21	Braking	NA
4.22	Toy bicycles	NA
4.23	Speed limitation of electrically driven ride-on toys	NA
4.24	Toys containing a heat source	NA
4.25	Liquid-filled toys	NA



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Section	Testing Items	Assessment		
4.26	Mouth-actuated toys	NA		
4.27	Toy roller skates, toy inline skates and toy skateboards	NA		
4.28	Percussion caps	NA		
4.29	Acoustic requirements	NA		
4.30	Toy scooters	NA		
4.31	Magnets and magnetic components	NA		
В	Safety-labeling guidelines and manufacturer's markings	Pass		
B.2	Safety-labeling guidelines	Pass		
B.3	Instructional literature	NA		
	Manufacturer's markings	Pass		
B.4	The name, trademark or mark of the manufacturer or the distributor	Pass		
	The address of the manufacturer or the distributor	Pass		

Remark(s): NA = Not Applicable

19. Flammability Properties - Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.2:2016

Section	Testing Items	Assessment
4.1	General requirement	Pass
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in a play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys (animals and dolls, etc.) with a piled or textile surface	NA

Note: NA = Not Applicable.

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20. Soluble elements Content- Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.3:2012+A1:2016,determined by ICP

	Compound		Mate	erial		Limit (mg/kg)	RL (mg/kg)
	Compound	1	2	3	4		
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound		Mat	erial		Limit	RL	
	Compound	5		7	8	(mg/kg)	(mg/kg)	
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5	
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2	
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5	
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5	
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5	
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5	
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5	
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5	
	Conclusion	PASS	PASS	PASS	PASS	-	-	
					1.1			
	Compound		Material					

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		9	10	11	12	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
	Conclusion	PASS	PASS	PASS	PASS	-	-
						(

	Compound		Mate	erial		Limit	RL
	Compound	13	14	15	16	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound		Limit	RL		
	Compound	17	18	19	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	25	2

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3	Barium (Ba)	N.D.	N.D.	N.D.	1000	5
5		N.D.	N.D.	IN.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	500	5
	Conclusion	PASS	PASS	PASS	-	-

Remark(s) (a) mg/kg: milligram per kilogram (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

21. Phthalates content- As Client's Requirement Refer To CPSC-CH-C1001-09.4, determined by GC-MS

				Mat	erial		Client's	
	Compound		2	3	4	5	Limit (%)	RL (%)
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8- branchedalkyl esters,C7- rich CAS# 71888-89-6	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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DHNUP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	N.D.	N.D.	N.D.	0.1	0.005
DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	N.D.	N.D.	0.1	0.005
DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
PIPP	N-pentyl- isopentylphthalate O-CAS# 776297-69-9	N.D.	N.D.	N.D.	N.D.	0.1	0.005
-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	DMEP DIPP PIPP - DHP	DHNUPacid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4DMEPDimethoxyethyl phthalate CAS# 117-82-8DIPPDi-isopentyl phthalate CAS# 605-50-5PIPPN-pentyl- isopentylphthalate O-CAS# 776297-69-9-1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0DHPDi-n-hexyl phthalate CAS# 84-75-3DNHPDi-n-hexyl phthalate	DHNUPacid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4N.D.DMEPDimethoxyethyl phthalate CAS# 117-82-8N.D.DIPPDi-isopentyl phthalate CAS# 605-50-5N.D.PIPPDi-isopentyl phthalate CAS# 776297-69-9N.D1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0N.D.DHPDi-n-hexyl phthalate CAS# 84-75-3N.D.DHPDi-n-hexyl phthalate CAS# 84-75-3N.D.	DHNUPacid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4N.D.N.D.DMEPDimethoxyethyl phthalate CAS# 117-82-8N.D.N.D.DIPPDi-isopentyl phthalate CAS# 605-50-5N.D.N.D.PIPPDi-isopentyl phthalate CAS# 605-50-5N.D.N.D.PIPPN-pentyl- isopentyl phthalate O-CAS# 776297-69-9N.D.N.D1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0N.D.N.D.DHPDi-n-hexyl phthalate CAS# 84-75-3N.D.N.D.DNHPDi-n-hexyl phthalate CAS# 84-75-3N.D.N.D.	DHNUPacid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4N.D.N.D.N.D.DMEPDimethoxyethyl phthalate CAS# 117-82-8N.D.N.D.N.D.N.D.DIPPDi-isopentyl phthalate CAS# 605-50-5N.D.N.D.N.D.N.D.PIPPN-pentyl- isopentyl phthalate O-CAS# 776297-69-9N.D.N.D.N.D.N.D1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0N.D.N.D.N.D.DHPDi-n-hexyl phthalate CAS# 84-75-3N.D.N.D.N.D.DHPDi-n-hexyl phthalate CAS# 84-75-3N.D.N.D.N.D.	DHNUPacid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4N.D.N.D.N.D.N.D.DMEPDimethoxyethyl phthalate CAS# 117-82-8N.D.N.D.N.D.N.D.N.D.DIPPDi-isopentyl phthalate CAS# 605-50-5N.D.N.D.N.D.N.D.N.D.PIPPDi-isopentyl phthalate CAS# 605-50-5N.D.N.D.N.D.N.D.N.D.PIPPDi-isopentyl phthalate CAS# 76297-69-9N.D.N.D.N.D.N.D1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0N.D.N.D.N.D.DHPDi-n-hexyl phthalate CAS# 84-75-3N.D.N.D.N.D.N.D.DNHPDi-n-hexyl phthalate CAS# 84-75-3N.D.N.D.N.D.N.D.	DHNUPacid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4N.D.N.D.N.D.N.D.N.D.0.1DMEPDimethoxyethyl phthalate CAS# 117-82-8N.D.N.D.N.D.N.D.N.D.0.1DIPPDi-isopentyl phthalate CAS# 605-50-5N.D.N.D.N.D.N.D.0.1PIPPDi-isopentyl phthalate CAS# 605-50-5N.D.N.D.N.D.N.D.0.1PIPPDi-isopentyl phthalate CAS# 776297-69-9N.D.N.D.N.D.N.D.0.1-1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0N.D.N.D.N.D.N.D.0.1DHPDi-n-hexyl phthalate CAS# 84-75-3N.D.N.D.N.D.N.D.0.1DNHPDi-n-hexyl phthalate CAS# 84-75-3N.D.N.D.N.D.N.D.0.1

	C	d		Mat	erial		Client's	
	Comp	ouna	6	7	8	10	Limit (%)	RL (%)
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8- branchedalkyl esters,C7- rich CAS# 71888-89-6	N.D.	N.D.	N.D.	N.D.	0.1	0.005
11	DHNUP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	N.D.	N.D.	N.D.	0.1	0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	N.D.	N.D.	0.1	0.005
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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14	PIPP	P-pentyl- isopentylphthalate Q-CAS# 776297-69-9	N.D.	N.D.	N.D.	N.D.	0.1	0.005
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005

1								
		_	Material				Client's	
	Compound		11	12	13	14	Limit (%)	RL (%)
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8- branchedalkyl esters,C7- rich CAS# 71888-89-6	N.D.	N.D.	N.D.	N.D.	0.1	0.005
11	DHNUP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	N.D.	N.D.	N.D.	0.1	0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	N.D.	N.D.	0.1	0.005
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
14	PIPP	R-pentyl- isopentylphthalate S-CAS# 776297-69-9	N.D.	N.D.	N.D.	N.D.	0.1	0.005
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	1			1	(- I	
	Com	d	Material				Client's	51 (6/)
	Com	oound	15 16 17			18	Limit (%)	RL (%)
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8- branchedalkyl esters,C7- rich CAS# 71888-89-6	N.D.	N.D.	N.D.	N.D.	0.1	0.005
11	DHNUP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	N.D.	N.D.	N.D.	0.1	0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	N.D.	N.D.	0.1	0.005
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
14	PIPP	T-pentyl- isopentylphthalate U-CAS# 776297-69-9	N.D.	N.D.	N.D.	N.D.	0.1	0.005
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005



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			51-		
Compound			Material	Client's Limit (%)	RL (%)
			22		
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	0.1	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	0.1	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	0.1	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	0.1	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	0.1	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	0.1	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	0.1	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	0.1	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8- branchedalkyl esters,C7- rich CAS# 71888-89-6	N.D.	0.1	0.005
11	DHNUP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	0.1	0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	0.1	0.005
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	0.1	0.005
14	PIPP	V-pentyl- isopentylphthalate W-CAS# 776297-69-9	N.D.	0.1	0.005
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	0.1	0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	0.1	0.005
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	0.1	0.005

Remark(s): (a) RL: Report limit (b) N.D.: Not detected (result is less than R



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Material List:

Material #	Position / Sample Description						
1	Brown wood, frame						
2	Brown plywood, base						
3	Transparent coating, board						
4	Red coating, board						
5	Dark blue coating, board						
6	Dark green coating, board						
7	Transparent plastic, board						
8	Nude plastic, screw						
9	White textile, string						
10	Translucent orange plastic, gem						
11	Translucent red plastic, gem						
12	Translucent yellow plastic, gem						
13	Translucent blue plastic, gem						
14	Translucent green plastic, gem						
15	Translucent purple plastic, gem						
16	Multicolor coating, board						
17	Orange plastic, button						
18	Black plastic, switch						
19	Yellow textile, belt						
20	Silvery metal, flat screw						
21	Silvery metal, hex screw						
22	White plastic, screw cover						



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Photo(s):



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