

Report No.: STSGZ2207273005E

Date: 4-Aug-2022

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Applicant :	CARPENTERS MANUFACTORY LIMITED
Address:	HUANG JIN JI INDUSTRIAL ZONE, SHANG JIE VILLAGE, QI SHI TOWN, DONG GUAN CITY, GUANG DONG PROVINCE, P.R.CHINA
The following sample(s) and	d sample information was/were submitted and identified by client as:
Sample Name:	Colour Finders
Model/Style/Item #:	MK21236
Labeled Age Grading:	3+
Requested Age Grading:	3+
Tested Age Grading:	3+
Receiving Date:	27-Jul-2022,4-Aug-2022
Test Period:	From 27-Jul-2022 to 4-Aug-2022
Add Information:	-
* * * * * * * * * * * * * * * * *	* * * *Please refer to the following page for detailed results * * * * * * * * * * * * * * * * * * *

Signed for and on behalf of STS

M

Tim Qi (Technical Director)



e company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached parts



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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	Safety of Toys: Flammability	EN 71-2:2020	PASS		
3	Safety of Toys: Migration of Certain Elements	EN 71-3:2019+A1:2021	PASS		
4	Safety of Toys: Mechanical and Physical PropertiesEN 71-1:2014+A1:2018Safety of Toys: FlammabilityEN 71-2:2020Safety of Toys: Migration of Certain ElementsEN 71-3:2019+A1:2021Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNDOP) -Item 518.52 of Annex XVII of REACH Regulation (EC) 1907/2006.EN 14372:2004 & IEC 62321-8:2017, determined by GC-MSCadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006IEC 62321-5:2013, determined by AASMechanical and Physical PropertieASTM F963-17Flammability of Solids16 CFR 1500.44 / ASTM F963-17, A5Soluble Migrated Elements ASTM F963-17CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1001-08.3 (Mon-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AASPhthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP)CPSC-CH-E1001-08.3 (Mon-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AASPhthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP)CPSC-CH-E1001-09.4, Solvent extract and determined by GC/MSCPSIA H.R. 4040 Sec. 108SOR/2011-17 (Except Clause 3&4)FlammabilitySOR/2011-17 (Except Clause 3&4)Lead Content (Pb) and Mercury Content (Hg)SOR/2011-17 Canada Product Safety Laboratory Book 5 - Laboratory Policies and Procedures Part B, Test Methods Section, Method C02.2:20178Methods C-07:2019Soluble Migrated Elements SOR/2011-17Canada Product safety reference manual Book 5- Laboratory Policies and procedures Part B, Test Methods Section, Method C-03: 2018Mec		PASS		
5	Cadmium content -Item 23 of Annex XVII of REACH		PASS		
6	Mechanical and Physical Propertie	ASTM F963-17	PASS		
7	Flammability of Solids	16 CFR 1500.44 / ASTM F963-17, A5	PASS		
8			PASS		
9		CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1	PASS		
10		CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1			
11	DEHP, DCHP, DINP)		PASS		
12	Mechanical and Physical Properties		PASS		
3	Flammability	SOR/2011-17	PASS		
14		5 - Laboratory Policies and Procedures Part B,Test Methods Section, Method	PASS		
5		Book 5- Laboratory policies and procedures Part B: Test Methods Section,	PASS		
16			PASS		
7		AS/NZS 8124.2:2016	PASS		
8	Soluble elements Content- Australian/New Zealand Standard on Safety of Toys	AS/NZS ISO 8124.3:2021,determined by ICP	PASS		
9	Phthalates content- As Client's Requirement	CPSC-CH-C1001-09.4, determined by GC-MS	SEE RESULT		
20	Lead Content (Pb) - 16 CFR 1303	CPSC-CH-E1003-09.1(Surface Coating) ,determined by AAS	PASS		

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#### **Result:**

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

PASS

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



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4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
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
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	Pass
7	Warnings, markings and instructions for use	

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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
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

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Report No.: STSGZ2207273005E Date: 4-Aug-2022 7.25 Flying toys NA 7.26 Improvised projectiles NA

Remark(s): NA = Not Applicable

#### Safety of Toys: Flammability – EN 71-2:2020 2.

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
4.5	Soft-filled toys	NA

Remark(s): NA = Not Applicable

## Safety of Toys: Migration of Certain Elements EN 71-3:2019+A1:2021 3. General elements determined by ICP-MS Chromium(VI) determined by IC-ICP-MS Organic tin determined by GC-MS

Compound			Limit (mg/kg)	RL (mg/kg)			
		1	2	3	4		
1	Aluminum (Al)	N.D.	N.D.	16	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

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Guangzhou Depuhua Test Services Co. Ltd. A301, 3/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong

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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.	15	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 <sup>*2</sup>	0.2*2
19	Zinc (Zn)	12	10	N.D.	22	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

		Material		
Compound		Category III <sup>*1</sup>	Limit (mg/kg)	RL (mg/kg)
		5		
1	Aluminum (Al)	N.D.	70000	10
2	Antimony (Sb)	N.D.	560	10
3	Arsenic(As)	N.D.	47	5
4	Barium(Ba)	N.D.	18750	10
5	Boron (B)	N.D.	15000	10
6	Cadmium (Cd)	N.D.	17	5
7	Chromium (III) (Cr)	N.D.	460	10
8	Chromium (VI) (Cr)	N.D.	0.053	0.053

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9	Cobalt (Co)	N.D.	130	10
10	Copper (Cu)	N.D.	7700	10
11	Lead(Pb)	N.D.	23	5
12	Manganese (Mn)	N.D.	15000	10
13	Mercury (Hg)	N.D.	94	10
14	Nickel (Ni)	N.D.	930	10
15	Selenium(Se)	N.D.	460	10
16	Strontium (Sr)	N.D.	56000	10
17	Tin (Sn)	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	12 <sup>*2</sup>	0.2 <sup>*2</sup>
19	Zinc (Zn)	205	46000	10
	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) \*1: Categories of various materials: Category I: Dry, brittle, powder like or pliable material Category II: Liquid or sticky material Category III: Scraped-off material \*2: Expressed as soluble Tributyltin.

#### Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) - Item 51& 52 of Annex XVII of 4. REACH Regulation (EC) 1907/2006 EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

			Material					
	Compound		2	3	4	5	Limit (%)	RL (%)
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

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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.	N.D.	_
9	Sum of	5, 6 & 7	N.D.	N.D.	N.D.	N.D.	N.D.	-
	Conclu	sion	PASS	PASS	PASS	PASS	-	-

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

5.

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



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

	Compound		Material		Limit	RL
	Compound	3	4	5	(mg/kg)	(mg/kg)
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	1000	10
	Conclusion	PASS	PASS	PASS	-	-
						/

	Compound	Material	Limit	RL
	Compound	2	(mg/kg)	(mg/kg)
1	Cadmium (Cd) CAS#7440-43-9	N.D.	100	10
	Conclusion	PASS	-	-

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

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

#### 6. Mechanical and Physical Properties – ASTM F963-17

ClauseParameterResults4Safety Requirements4.1Material QualityPass

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4.2	Flammability	NA
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	NA
4.12	Plastic Film	Pass
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords, Straps, and Elastics	NA
4.15	Stability and Over-Load Requirements	NA
4.16	Confined Spaces	NA
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
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

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Art Materials	NA
Toy Gun Marking	NA
Balloons	NA
Certain Toys with Nearly Spherical Ends	NA
Marbles	NA
Balls	NA
Pompoms	NA
Hemispheric-Shaped Objects	NA
Yo Yo Elastic Tether Toys	NA
Magnets	NA
Jaw Entrapments in Handles and Steering Wheels	NA
Expanding Materials	NA
Toy Chests	NA
Labeling Requirements	
Federal Government Requirements	NA
Age Grading Labeling	Pass
Safety Labeling Requirements	NA
Aquatic Toys	NA
Crib and Playpen Toys	NA
Mobiles	NA
Stroller and Carriage Toys	NA
Toys Intended to be Assembled by an Adult	NA
Simulated Protective Devices	NA
Toys with Functional Sharp Edges or Points	NA
Small Objects, Small Balls, Marbles, and Balloons	NA
	Toy Gun Marking         Balloons         Certain Toys with Nearly Spherical Ends         Marbles         Balls         Pompoms         Hemispheric-Shaped Objects         Yo Yo Elastic Tether Toys         Magnets         Jaw Entrapments in Handles and Steering Wheels         Expanding Materials         Toy Chests         Labeling Requirements         Federal Government Requirements         Age Grading Labeling         Safety Labeling Requirements         Aquatic Toys         Crib and Playpen Toys         Mobiles         Stroller and Carriage Toys         Toys Intended to be Assembled by an Adult         Simulated Protective Devices         Toys with Functional Sharp Edges or Points

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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
5.2	Crib and Playpen Toys	NA
5.3	Mobiles	NA
6.4	Toys Intended to be Assembled by an Adult	NA
6.7	Toys in Contact with Food	NA
6.8	Toy Chests	NA
7	Producer's Markings	Pass
3	Test Methods	
3.5	Normal Use Testing	Pass
3.6	Abuse Testing	Pass
8.7	Impact Tests	Pass
3.8	Torque Tests for Removal of Components	Pass
8.9	Tension Tests for Removal of Components	Pass
8.10	Compression Tests	Pass

Remark(s): NA = Not Applicable

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

PASS

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



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#### Soluble Migrated Elements ASTM F963-17, determined by ICP-OES 8.

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

		Compound	Material	Limit	RL
N		Compound	2	(mg/kg)	(mg/kg)
	1	Lead (Pb)	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)

#### 10. 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

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

	Compound	Material	Limit	RL
	Compound	2	(mg/kg)	(mg/kg)
1	Lead (Pb)	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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#### 11. Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP) - CPSIA H.R. 4040 Sec. 108 CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS

	0.			Mat	erial		Limit	RL
	Co	mpound	2	3	4	5	(%)	(%)
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)

#### 12. Mechanical and Physical Properties – SOR/2011-17

PASS

Clause	Parameter	Results
3	Official languages	NR
4	Flexible film bags	NR
7	Small parts	NA
8	Metal edges	NA
9	Wire frames	NA
10	Plastic edges	NA
11	Wood	Pass
12	Glass	NA
13	Fasteners	NA

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14	Safety stops or locking devices	NA
15	Spring-wound driving mechanisms	NA
16	Projectile components	NA
17	Enclosures	NA
18	Stability	NA
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
42	Yo-yo type balls	NA
43	Magnetic toys	NA

Remark(s): NA = Not Applicable NR=Not Required

#### 13. 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

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PASS



# Report No.: STSGZ2207273005E Date: 4-Aug-2022 Page 17 of 24 33 Dolls, plush toys and soft toys – Flammability of yarn NA 34 Dolls, plush toys and soft toys – Flammability of hair or mane NA

#### 14. Lead Content (Pb) and Mercury Content (Hg)

Canada Product Safety Laboratory Book 5 - Laboratory Policies and Procedures Part B, Test Methods Section, Method C02.2:2017&Method C-07:2019

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

#### 15. Soluble Migrated Elements- SOR/ 2011 - 17 Canada Product safety reference manual Book 5- Labor

Canada Product safety reference manual Book 5- Laboratory policies and procedures Part B: Test Methods Section, Method C-03: 2018, determined by ICP-OES

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



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#### Mechanical and Physical Properties - Australian/New Zealand Standard on Safety of Toys 16. AS/NZS ISO 8124.1:2019

Section	Testing Items	Assessment
4	Requirements	
4.1	Normal use	Pass
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	Pass
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	NA
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

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Section	Testing Items	Assessment
4.24	Toys containing a heat source	NA
4.25	Liquid-filled toys	NA
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	
B.2	Safety-labeling guidelines	NA
B.3	Instructional literature	Pass
E.	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

#### 17. 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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#### 18. Soluble elements Content- Australian/New Zealand Standard on Safety of Toys AS/NZS ISO 8124.3:2021, determined by ICP

	0 a mar a mad		Ма	terial		Limit	RL
	Compound	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	Material	Limit	RL
	Compound	5	(mg/kg) 60 25 1000 75 60 90 60 500	(mg/kg)
1	Antimony (Sb)	N.D.	60	5
2	Arsenic (As)	N.D.	25	2
3	Barium (Ba)	N.D.	1000	5
4	Cadmium (Cd)	N.D.	75	5
5	Chromium (Cr)	N.D.	60	5
6	Lead (Pb)	N.D.	90	5
7	Mercury (Hg)	N.D.	60	5
8	Selenium (Se)	N.D.	500	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)





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

				Ma	terial					
	Comp	ound					Client's Limit (%)	RL (%)		
			2	3	4	5				
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	-	0.005		
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	-	0.005		
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	-	0.005		
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	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		
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	2 -	0.005		
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	-	0.005		
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	-	0.005		
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	-	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.	-	0.005		
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.	-	0.005		
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	N.D.	N.D.	-	0.005		
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	N.D.	N.D.	-	0.005		
14	PIPP	N-pentyl- isopentylphthalate O-CAS# 776297-69-9	N.D.	N.D.	N.D.	N.D.		0.005		
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.	N.D.	N.D.	0	0.005		
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	-	0.005		
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	-	0.005		

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



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#### 20. Lead Content (Pb) - 16 CFR 1303

CPSC-CH-E1003-09.1(Surface Coating) ,determined by AAS

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



#### Material List:

Material #	Position / Sample Description	
1	Brown wood, holder <sup>*a</sup>	
2	Brown plywood, board*b	
3	Red coating, board*c	
4	Dark green coating, board*d	_
5	Transparent coating, board <sup>*e</sup>	

Remark:

(a)\*a=the test date was copies fromSTSGZ2203242003-24,2203243039-24. (b)\*b=the test date was copies from STSGZ2203242003-23,2203243039C-23. (c)\*c=the test date was copies from STSGZ2203242003-1,2203243039-1. (d)\*d=the test date was copies from STSGZ2203242003-5,2203243039-5. (e)\*e=the test date was copies from STSGZ2203242003-21,2203243039-21.



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#### Photo(s):



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