

Liebe Interessierte,

Sicher wissen Sie, dass verschiedene Länder unterschiedliche Sicherheitsbestimmungen haben. Das Experimentier-Set «Unter Verdacht» enthält ein Mikroskop, welches aus beschichtetem Papier zusammengefoldet wird. Diese nennt man Foldscope. Das Foldscope wurde von einer amerikanischen Firma entwickelt. Daher liegen die amerikanischen Sicherheitshinweise bei jedem Foldscope bei und sind hier unten auch nachzulesen.

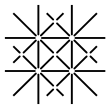
Da einige der Sicherheitshinweise uns etwas irritiert haben, fragten wir bei Foldscope nach und erhielten die Auskunft, dass das Foldscope in der EU als Spielzeug für Kinder unter 12 Jahren getestet wurde und diesen Test auch bestanden (original Email unten).

Im Weiteren, wurde uns der Testbericht zugesandt, der ebenfalls am Ende des PDFs eingesehen werden kann.

Wir wünschen Ihnen jetzt viel Spass mit dem Adventure «Unter Verdacht».
Viele Grüsse und bleiben Sie gesund

Kerstin Beyer-Hans
Outreach Manager

Anhänge: Emailwechsel, Warnungen, Testergebnisse



Universität
Basel

Swiss Nanoscience Institute



Emailwechsel mit Foldscopes

Wir Haben bei Foldscope nachgefragt, wie es sich mit der Warnung Nummer 10 auf den Foldscopes verhält und sie gebeten uns mehr Auskunft darüber zukommen zu lassen. Hier ist Ihre Antwort im Original:

Betreff: Re: Warnings

Dear Dr. Kerstin Beyer-Hans,

It's just a legal warning that is required by the State of California. You can read more about Proposition 65 here: <https://oehha.ca.gov/proposition-65>

Almost all products out in the market that contains any minute chemicals listed in Proposition 65 are required to have the warning.

Our Foldscopes are tested for compliance in the EU and US CPSIA as required for products targeting children under 12. You can see our testing documents attached.

Thank you,
Ken



READ THIS FIRST!

Congratulations! Your Foldscope Kit is enclosed!

Please note the following before you begin your journey into the microcosmos:

- **READ ALL OF THE ASSEMBLY AND USE INSTRUCTIONS, AND THE WARNINGS AND DISCLAIMERS, BEFORE YOU BEGIN TO ASSEMBLE OR USE THIS PRODUCT (SEE OTHER SIDE OF THIS SHEET).**
- Not for use by children under 8 years old.
- Do not look into the sun or a bright light with this product. For example, do not look at the included LED magnifier light source when adjusted to the bright setting.
- Beware choking hazards and functional sharp edges.
- Use appropriate precautions when using, replacing, and disposing of batteries.

This product was manufactured by: Foldscope Instruments, Inc. (1086 Folsom St., San Francisco, CA 94103, www.foldscope.com, info@foldscope.com, +1-628- 400-3653) and was assembled in Huizhou, China in 2017 (first production round).

This product has passed safety testing required for the following standards: US: ASTM F963-16; EU: EN71-1; AS/NZS ISO 8124.

IMPORTANT SAFETY WARNINGS, DISCLAIMERS AND WARRANTY:

READ ALL OF THE ASSEMBLY AND USE INSTRUCTIONS, WARNINGS AND DISCLAIMERS, BEFORE YOU BEGIN TO ASSEMBLE OR USE THIS PRODUCT.



WARNINGS

- Not for use by children under 8 years old;
- Adult supervision is required at all times for children assembling and using this product;
- This kit contains parts with functional sharp edges that could cut or seriously injure you, such as scissors. Use caution when handling;
- This product contains alkaline button cells of size AG10 / LR1130. Do not put in your mouth or swallow. A swallowed Button/Coin Celled Battery can cause internal chemical burns in as little as two hours and lead to death. Dispose of used batteries immediately. Keep new and used batteries away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical condition;
- Failure to immediately dispose of used batteries could lead to a serious injury, property damage or death;
- Do not mix old and new batteries;
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries;
- This product contains choking hazards, including small parts and small magnets. Do not put in your

mouth or swallow. Small magnets can stick together across intestines causing serious infections and death. Seek immediate attention if magnets are swallowed or inhaled;

- Keep batteries and magnets away from animals to prevent serious injury or death;
- This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm;
- Do not look into the sun or a bright light with this product. For example, do not look at the included LED magnifier light source when adjusted to the bright setting. Doing so could cause a serious eye injury and disorientation;
- The product's slides are made of glass and could cut or seriously injure you. Use caution when handling;
- Do not place your eyeball on the microscope; doing so could cause an injury;
- This product is not designed or intended to be used for medical purposes.



DISCLAIMERS

Foldscope makes no representations or warranties, express or implied including the implied warranty of merchantability and/or fitness for a particular purpose, regarding the product; the product is sold "AS IS." TO THE EXTENT PERMITTED BY APPLICABLE LAW, FOLDSCOPE ASSUMES NO LIABILITY FOR ANY INJURY, DEATH OR THIRD PARTY CLAIM AS A RESULT OF USING THIS PRODUCT. FOLDSCOPE IS NOT LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ASSEMBLY OR THE USE OF THE PRODUCT.

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Foldscope Instruments, Inc.
1086 Folsom St, San Francisco, CA 94103


Report on the submitted samples said to be:

Sample Description:	Please refer to Sample List
Style/Item No.:	Please refer to Sample List
Country of Origin:	China
Brand:	FOLDSCOPE
Tested Age Grading:	Over 8 years of age
Sample Receiving Date:	October 31,2019
Lately Re-submit Date:	November 15,2019
Testing Period:	October 31,2019 - November 18,2019
Result:	Pass

Signed for and on behalf of

BACL

Checked by: 
May Chen

Approved by: 
Gary Guo


Lance Lee

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Summary of Test Result:

TEST REQUEST

CONCLUSION

A ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	
1.Mechanical and Physical (excluding section 5, 6 and 7)	Pass
2.Flammability Tests	Pass
3.Total Lead content in the components of submitted sample as the requirement of client	Pass*1
4.Soluble heavy metal content	Pass
B US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101 for total lead content in the components of submitted sample as the requirement of client	Pass*1
C Consumer Product Safety Commission 16 CFR Part 1307:Prohibition of Children' s Toys and Child Care Articles Containing Specified Phthalates in the components of submitted sample as the requirement of client	Pass*1
D US California Proposition 65. on Lead content in the components of submitted sample as the requirement of client	Pass*1
E US California Proposition 65. on Phthalates content in the components of submitted sample as the requirement of client	Pass*1
F Canada Consumer Product Safety Act (CCPSA) - Toys Regulations, SOR/2011-17+SOR/2018-138	
1.Mechanical and Physical Tests	Pass
2.Flammability Tests	Pass
3.Toxicological Hazards content in the components of submitted sample as the requirement of client	Pass*1
G Canada Consumer Product Safety Act (CCPSA) - Phthalates Regulations, SOR/2016-188 Phthalates content	NA
H Canadian Environmental Protection Act, 1999 - Products Containing Mercury Regulations, SOR/2014-254	Pass
I European Standard on Safety of Toys	
1.EN 71-1:2014+A1:2018 - Mechanical and Physical Properties(excluding section 7)	Pass
2.EN 71-2:2011+A1:2014 - Flammability Tests	Pass
3.EN71-3:2019-Migration of Certain Elements Tests(Category III)	Pass
J Entry 51&52 of Annex XVII to Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2015/326 on Phthalates content (formerly known as 2005/84/EC) in the components of submitted sample as the requirement of client	Pass*1

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K Entry 23 of Annex XVII of Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EC) No 552/2009 and (EU) No 494/2011 and (EU) No 835/2012 and (EU) No 2016/217 on Cadmium (Cd) (formerly known as 91/338/EEC) in the components of submitted sample as the requirement of client

Pass*1

L Entry 50 of Annex XVII to Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) No 1272/2013 & (EU) 2015/326 on PAHs content (formerly known as 2005/69/EC) (Category2) in the components of submitted sample as the requirement of client

Pass*1

M Part A of Annex I to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs) - Short Chain Chlorinated Paraffin (C10 - C13) content in the components of submitted sample as the requirement of client

Pass*1

N AS/NZS ISO 8124

1.AS/NZS 8124.1:2016 - Mechanical and Physical Tests (excluding Annex B)

Pass

2.AS/NZS 8124.2:2016 - Flammability Tests

Pass

3.AS/NZS ISO 8124.3:2012+A1:2016 - Migration of Certain Elements Tests

Pass

O Australia Consumer protection notice No.11 of 2011 - DEHP content

Pass

P EU Directive 2013/56/EU Of The European Parliament And Of The Council of 20 November 2013 (amending Directive 2006/66/EC of the European Parliament and of the Council on batteries and accumulators and waste batteries and accumulators as regards the placing on the market of portable batteries and accumulators containing cadmium intended for use in cordless power tools, and of button cells with low mercury content, and repealing Commission Decision 2009/603/EC) on Mercury, Cadmium and Lead Content

NA

Q US Mercury –Containing Battery Management Act Public Law No104-142 (H.R. 2024) on Mercury content in the battery

NA

Pass*1=Meet the requirement of Client.

NA = Not Applicable.

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Sample List:

Style/Item No.	Sample Description
FS-LMK-001	LED Magnifier Kit
FS-BCK-001	Basic Classroom Kit
FS-DIK-002	Deluxe Individual Kit
FS-BCK-DIK001	Combo Basic Classroom Kit & Deluxe Individual Kit
FS-LCK-001	Large Classroom Kit
FS-Bulk BCK	10X Basic Classroom Kit
FS-SBS-001	Animal Tissue & Cells
FS-SBS-002	Plants & Insects
FS-SBS-003	Microbes & Microinvertebrates
FS-SMK-001	Slide Maker Kit
FS-BSA-001	Blank Slides (100 pieces)
FS-COV-001	Coverslips (100 pieces)
FS-RINGS-001	Ring Stickers (150 stickers)
FS-CLEAR-001	Clear Sticker (150 stickers)
FS-PSA-001	Paper Slides (30 slides)

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Result:

Tested part(s):

- (1) Clear coating(shell)
- (2) Multi-color printed white paper(envelope)
- (3) Yellow coating(shell,raw material)
- (4) Magenta coating(shell,raw material)
- (5) Blue coating(shell,raw material)
- (6) Black coating(box backing,raw material)
- (7) Multi-color coated white paper with glue(label)
- (8) Clear soft plastic(stickers)
- (9) White plastic(material)
- (10) Clear plastic(cover slip box)
- (11) Black plastic(tweezers)
- (12) Black plastic(thin ring stickers,semi-product)
- (13) Black plastic(thick ring stickers)
- (14) Clear plastic(round stickers)
- (15) Clear laminated white paper with black printing(clear box,semi-product)
- (16) Black plastic with glue(paper card,semi-product)
- (17) Clear laminated with paper(paper card)
- (18) Black EVA with glue(stickers)
- (19) White foam(lining)
- (20) Yellow glue(adhesive glue of box,raw material)
- (21) Black coated white paper with glue(label)
- (22) Wood(box)
- (23) Clear glasses(big sharp micro slide)
- (24) Clear glasses(small square cover slip)
- (25) Clear glasses(big micro slide)
- (26) Clear glasses(small round cover slip)
- (27) Black printed white paper(lining)
- (28) White paper(paper box)
- (29) Golden metal(hinge)
- (30) Golden metal(screw)
- (31) Golden metal(female lock plate)

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(32) Golden metal(female lock base)

(33) Golden metal(male lock base)

(34) Golden metal(rivet)

(35) Clear glue(envelope)

(36) Red coating(shell)

Remark: The results shown of tested parts (3)-(6) are the total weight of wet sample(s), the applicant will undertake all risk.

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A ASTM F963-17 Standard Consumer Safety Specification for Toy Safety

1. Mechanical and Physical (excluding section 5, 6 and 7)

Section	Description	Result
4	Safety requirements	
4.1	Material quality	Pass
4.3.7	Stuffing materials	NA
4.4	Electrical/thermal energy	NA
4.5	Sound producing toys	NA
4.6	Small objects	NA
4.7	Accessible edges	NA
4.8	Projections	NA
4.9	Accessible points	NA
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords and elastics in toys	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
4.25	Battery-operated 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 carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA

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<u>Section</u>	<u>Description</u>	<u>Result</u>
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	NA
4.39	Jaw entrapment in handles and steering wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labeling requirements	NR
6	Instructional literature	NR
7	Producer's markings	NR

NA = Not Applicable.

NR = Not Requested.

Use and abuse testing:

<u>Applicable section</u>	<u>Description</u>	<u>Test Condition</u>
8.7	Drop test	NA
8.8	Torque test	NA
8.9	Tension test	NA
8.10	Compression test	NA

2.Flammability Tests

Flammability Tests of material

Test method: ASTM F963-17 Section 4.2 and Annex A5: Flammability Testing Procedure for Solids and Soft Toys

<u>Sample</u>	<u>Burn rate (in/sec.)</u>	<u>Conclusion</u>
Tweezers	IBE	Pass

Note:

In accordance with the ASTM F963, the burning rate should not be greater than 0.1 inch per second.

All styles of submitted samples were tested, the above result only showed the most severe burn rate of submitted samples.

DNI = Did Not Ignite

IBE = Ignited But Extinguished

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3.Total Lead content in the components of submitted sample as the requirement of client

Total Lead content(In paint and similar surface-coating materials)

Test method: CPSC-CH-E1003-09.1-2011

Item	Unit	MDL	Result		Limit
			(1)+(3)	(4)+(5)+(6)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	90
Conclusion	/	/	Pass	Pass	/

Total Lead content(In substrates)

Test method: CPSC-CH-E1002-08.3-2012;CPSC-CH-E1001-08.3-2012

Item	Unit	MDL	Result						Limit
			(7)	(8)	(9)+(10)	(11)	(12)	(13)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	21	N.D.	N.D.	N.D.	100
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(14)	(15)	(16)	(17)	(18)	(19)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	20	N.D.	100
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result				Limit
			(20)	(21)	(23)+(24)	(25)+(26)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	16	100
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result			Limit
			(29)+(30)+(31)	(32)+(33)+(34)	(35)	
Lead(Pb)	mg/Kg	10	17	17	N.D.	100
Conclusion	/	/	Pass	Pass	Pass	/

4.Soluble heavy metal content

Soluble heavy metal content(In paint and similar surface-coating materials)

Test method: ASTM F963-17 (Clause 4.3.5& 8.3)

Item	Unit	MDL	Result						Limit
			(1)	(3*)	(4*)	(5*)	(6*)	(36*)	
Lead(Pb)	mg/Kg	10	N.D.	--	--	--	--	--	90
Antimony(Sb)	mg/Kg	10	N.D.	--	--	--	--	--	60

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Item	Unit	MDL	Result						Limit
			(1)	(3*)	(4*)	(5*)	(6*)	(36*)	
Arsenic(As)	mg/Kg	5	N.D.	--	--	--	--	--	25
Barium(Ba)	mg/Kg	10	N.D.	--	--	--	--	--	1000
Cadmium(Cd)	mg/Kg	10	N.D.	--	--	--	--	--	75
Chromium(Cr)	mg/Kg	10	N.D.	--	--	--	--	--	60
Mercury(Hg)	mg/Kg	10	N.D.	--	--	--	--	--	60
Selenium(Se)	mg/Kg	10	N.D.	--	--	--	--	--	500
Conclusion	/	/	Pass	NA	NA	NA	NA	NA	/

Soluble heavy metal content(In substrates)

Test method: ASTM F963-17 (Clause 4.3.5& 8.3)

Item	Unit	MDL	Result						Limit
			(7)	(8)	(9)	(10)	(11)	(12)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Antimony(Sb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Arsenic(As)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Barium(Ba)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	250
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50
Chromium(Cr)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Selenium(Se)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(13)	(14)	(15)	(16)	(17)	(18)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Antimony(Sb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Arsenic(As)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Barium(Ba)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	250
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50
Chromium(Cr)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25

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Item	Unit	MDL	Result						Limit
			(13)	(14)	(15)	(16)	(17)	(18)	
Selenium(Se)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(19)	(20)	(21)	(22)	(24)	(35)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Antimony(Sb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Arsenic(As)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Barium(Ba)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	250
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50
Chromium(Cr)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Selenium(Se)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Note:

- "--" = Not Regulated
- * = The mass of sample(s) is(are) less than 10mg, not applicable to test.
- NA = Not Applicable

B US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101 for total lead content in the components of submitted sample as the requirement of client

Total Lead content(in paint and similar surface-coating materials)

Test method: CPSC-CH-E1003-09.1-2011

Item	Unit	MDL	Result		Limit
			(1)+(3)	(4)+(5)+(6)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	90
Conclusion	/	/	Pass	Pass	/

Total Lead content(in substrates)

Test method: CPSC-CH-E1002-08.3-2012;CPSC-CH-E1001-08.3-2012

Item	Unit	MDL	Result						Limit
			(7)	(8)	(9)+(10)	(11)	(12)	(13)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	21	N.D.	N.D.	N.D.	100
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Result						Limit
			(14)	(15)	(16)	(17)	(18)	(19)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	20	N.D.	100
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result				Limit
			(20)	(21)	(23)+(24)	(25)+(26)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	16	100
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result			Limit
			(29)+(30)+(31)	(32)+(33)+(34)	(35)	
Lead(Pb)	mg/Kg	10	17	17	N.D.	100
Conclusion	/	/	Pass	Pass	Pass	/

C Consumer Product Safety Commission 16 CFR Part 1307:Prohibition of Children' s Toys and Child Care Articles Containing Specified Phthalates in the components of submitted sample as the requirement of client

Test method: CPSC-CH-C1001-09.4-2018

Item	Unit	MDL	Result						Limit
			(1)+(3)	(4)+(5)+(6)	(7)	(8)	(9)+(10)	(11)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-pentyl Phthalate(DPENP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-hexyl Phthalate (DHEXP/DnHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dicyclohexyl Phthalate(DCHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(12)	(13)	(14)	(15)	(16)	(17)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000

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Item	Unit	MDL	Result						Limit
			(12)	(13)	(14)	(15)	(16)	(17)	
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-pentyl Phthalate(DPENP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-hexyl Phthalate (DHEXP/DnHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dicyclohexyl Phthalate(DCHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(18)	(19)	(20)	(21)	(35)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-pentyl Phthalate(DPENP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-hexyl Phthalate (DHEXP/DnHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dicyclohexyl Phthalate(DCHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

D US California Proposition 65. on Lead content in the components of submitted sample as the requirement of client

Total Lead content(in paint and similar surface-coating materials)

Test method: CPSC-CH-E1003-09.1-2011

Item	Unit	MDL	Result		Client's Limit
			(1)+(3)	(4)+(5)+(6)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	90
Conclusion	/	/	Pass	Pass	/

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Total Lead content(in substrates)

Test method: CPSC-CH-E1002-08.3-2012;CPSC-CH-E1001-08.3-2012

Item	Unit	MDL	Result						Client's Limit
			(7)	(8)	(9)+(10)	(11)	(12)	(13)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	21	N.D.	N.D.	N.D.	100
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Client's Limit
			(14)	(15)	(16)	(17)	(18)	(19)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	20	N.D.	100
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result				Client's Limit
			(20)	(21)	(23)+(24)	(25)+(26)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	16	100
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result			Client's Limit
			(29)+(30)+(31)	(32)+(33)+(34)	(35)	
Lead(Pb)	mg/Kg	10	17	17	N.D.	100
Conclusion	/	/	Pass	Pass	Pass	/

E US California Proposition 65. on Phthalates content in the components of submitted sample as the requirement of client

Test method: CPSC-CH-C1001-09.4-2018

Item	Unit	MDL	Result						Client's Limit
			(1)+(3)	(4)+(5)+(6)	(7)	(8)	(9)+(10)	(11)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisodecyl Phthalate(DIDP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-hexyl Phthalate (DHEXP/DnHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Result						Client's Limit
			(12)	(13)	(14)	(15)	(16)	(17)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisodecyl Phthalate(DIDP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-hexyl Phthalate (DHEXP/DnHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Client's Limit
			(18)	(19)	(20)	(21)	(35)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisodecyl Phthalate(DIDP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-hexyl Phthalate (DHEXP/DnHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

F Canada Consumer Product Safety Act (CCPSA) - Toys Regulations, SOR/2011-17+SOR/2018-138

1.Mechanical and Physical Tests

Section	Description	Result
3	GENERAL - Official languages	NA
4	PACKAGING - Flexible film bags	NA
7	MECHANICAL HAZARDS - Small part	NA
8	MECHANICAL HAZARDS - Metal edges	Pass
9	MECHANICAL HAZARDS - Wire frames	NA
10	MECHANICAL HAZARDS - Plastic edges	Pass
11	MECHANICAL HAZARDS – Wood	Pass
12	MECHANICAL HAZARDS – Glass	Pass
13	MECHANICAL HAZARDS – Fasteners	Pass

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<u>Section</u>	<u>Description</u>	<u>Result</u>
14	MECHANICAL HAZARDS - Safety stops or locking devices	NA
15	MECHANICAL HAZARDS - Spring-wound driving mechanisms	NA
16	MECHANICAL HAZARDS - Projectile components	NA
17	MECHANICAL HAZARDS - Enclosures	NA
18	MECHANICAL HAZARDS - Stability	NA
19	MECHANICAL HAZARDS - Decibel limit	NA
28	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - fastenings	NA
29	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - stuffing	NA
30	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - small parts	NA
31	SPECIFIC PRODUCTS - 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 - Shaft-like handles	NA
38	TOY STEAM ENGINES - Boilers - safety valves	NA
39	FINGER PAINTS - Water-based paints	NA
40	RATTLES - Construction	NA
41	ELASTICS - Length or extensibility	NA
42	YO-YO TYPE BALLS - Stretchable cords	NA
43	MAGNETIC TOYS - Magnetic force	NA
44	MAGNETIC TOYS - Exceptions and warning	NA

NA = Not Applicable.

Use and abuse testing:

<u>Applicable section</u>	<u>Description</u>	<u>Test Condition</u>
	Drop test	4 times at 36"
	Push-pull test	10 lb

2.Flammability Tests

<u>Section</u>	<u>Description</u>	<u>Result</u>
21	Celluloid or cellulose nitrate	Pass
32	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - flammability of outer covering	NA
33	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - flammability of yarn	NA
34	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - flammability of hair or mane	NA

NA = Not Applicable.

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3.Toxicological Hazards content in the components of submitted sample as the requirement of client

Test method: IEC 62321-4:2013+AMD1:2017 CSV;Product Safety Bureau Reference Manual Book 5-Laboratory Policies and Procedures Part B: Test method Section, Method C03:2018;Product Safety Bureau Reference Manual Book 5-Laboratory Policies and Procedures Part B: Test method Section, Method C02.2:2017

Item	Unit	MDL	Result					Limit
			(1)	(3)	(4)	(5)	(6)	
Total Lead (Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	90
Total Mercury (Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	10
Soluble Antimony (Sb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Arsenic (As)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Barium (Ba)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Selenium (Se)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

G Canada Consumer Product Safety Act (CCPSA) - Phthalates Regulations, SOR/2016-188 Phthalates content

Remark: This item is not applicable.

H Canadian Environmental Protection Act, 1999 - Products Containing Mercury Regulations, SOR/2014-254

Test method: IEC 62321-4:2013+AMD1:2017 CSV

Item	Unit	MDL	Result						Limit
			(2)	(7)	(8)	(9)+(10)	(11)	(12)	
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(13)	(14)	(15)	(16)	(17)	(18)	
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(19)	(20)	(21)	(22)	(23)+(24)	
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Result					Limit
			(25)+(26)	(27)+(28)	(29)+(30)+(31)	(32)+(33)+(34)	(35)	
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

I European Standard on Safety of Toys

1.EN 71-1:2014+A1:2018 - Mechanical and Physical Properties(excluding section 7)

Section	Description	Result
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	Pass
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	Projectiles	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	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA

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<u>Section</u>	<u>Description</u>	<u>Result</u>
4.26	Toy Disguise Costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements	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	NA
7	Warnings, markings and instructions for use	NR

NA = Not Applicable.

NR = Not Requested.

2.EN 71-2:2011+A1:2014 - Flammability Tests

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	General	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

NA = Not Applicable.

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3.EN71-3:2019-Migration of Certain Elements Tests(Category III)

Test method: EN 71-3:2019

Item	Unit	MDL	Result						Limit
			(1)	(2)	(7)	(8)	(9)	(10)	
Aluminium(Al)	mg/Kg	50	N.D.	N.D.	143	N.D.	N.D.	N.D.	70000
Antimony(Sb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic(As)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium(Ba)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron(B)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium(Cd)	mg/Kg	4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	17
trivalent chromium(Cr III)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	460
hexavalent chromium(Cr VI)	mg/Kg	0.050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt(Co)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper(Cu)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead(Pb)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese(Mn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel(Ni)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium(Se)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium(Sr)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin(Sn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic Tin(OT*1)	mg/Kg	2.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc(Zn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(11)	(12)	(13)	(14)	(15)	(16)	
Aluminium(Al)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	70000
Antimony(Sb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic(As)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium(Ba)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron(B)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium(Cd)	mg/Kg	4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	17
trivalent chromium(Cr III)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	460

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Item	Unit	MDL	Result						Limit
			(11)	(12)	(13)	(14)	(15)	(16)	
hexavalent chromium(Cr VI)	mg/Kg	0.050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt(Co)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper(Cu)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead(Pb)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese(Mn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel(Ni)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium(Se)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium(Sr)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin(Sn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic Tin(OT*1)	mg/Kg	2.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc(Zn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(17)	(18)	(19)	(20)	(21)	(22)	
Aluminium(Al)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	70000
Antimony(Sb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic(As)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium(Ba)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron(B)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium(Cd)	mg/Kg	4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	17
trivalent chromium(Cr III)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	460
hexavalent chromium(Cr VI)	mg/Kg	0.050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt(Co)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper(Cu)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead(Pb)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese(Mn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel(Ni)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium(Se)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	460

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Item	Unit	MDL	Result						Limit
			(17)	(18)	(19)	(20)	(21)	(22)	
Strontium(Sr)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin(Sn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic Tin(OT*1)	mg/Kg	2.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc(Zn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(24)	(27)	(28)	(35)	(3*)	
Aluminium(Al)	mg/Kg	50	N.D.	130	N.D.	N.D.	--	70000
Antimony(Sb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	--	560
Arsenic(As)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	--	47
Barium(Ba)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	--	18750
Boron(B)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	--	15000
Cadmium(Cd)	mg/Kg	4	N.D.	N.D.	N.D.	N.D.	--	17
trivalent chromium(Cr III)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	--	460
hexavalent chromium(Cr VI)	mg/Kg	0.050	N.D.	N.D.	N.D.	N.D.	--	0.053
Cobalt(Co)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	--	130
Copper(Cu)	mg/Kg	50	N.D.	N.D.	N.D.	382	--	7700
Lead(Pb)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	--	23
Manganese(Mn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	--	15000
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	--	94
Nickel(Ni)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	--	930
Selenium(Se)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	--	460
Strontium(Sr)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	--	56000
Tin(Sn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	--	180000
Organic Tin(OT*1)	mg/Kg	2.5	N.D.	N.D.	N.D.	N.D.	--	12
Zinc(Zn)	mg/Kg	50	N.D.	N.D.	N.D.	N.D.	--	46000
Conclusion	/	/	Pass	Pass	Pass	Pass	NA	/

Item	Unit	MDL	Result				Limit
			(4*)	(5*)	(6*)	(36*)	
Aluminium(Al)	mg/Kg	50	--	--	--	--	70000

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Item	Unit	MDL	Result				Limit
			(4*)	(5*)	(6*)	(36*)	
Antimony(Sb)	mg/Kg	10	--	--	--	--	560
Arsenic(As)	mg/Kg	5	--	--	--	--	47
Barium(Ba)	mg/Kg	10	--	--	--	--	18750
Boron(B)	mg/Kg	50	--	--	--	--	15000
Cadmium(Cd)	mg/Kg	4	--	--	--	--	17
trivalent chromium(Cr III)	mg/Kg	10	--	--	--	--	460
hexavalent chromium(Cr VI)	mg/Kg	0.050	--	--	--	--	0.053
Cobalt(Co)	mg/Kg	10	--	--	--	--	130
Copper(Cu)	mg/Kg	50	--	--	--	--	7700
Lead(Pb)	mg/Kg	5	--	--	--	--	23
Manganese(Mn)	mg/Kg	50	--	--	--	--	15000
Mercury(Hg)	mg/Kg	10	--	--	--	--	94
Nickel(Ni)	mg/Kg	50	--	--	--	--	930
Selenium(Se)	mg/Kg	10	--	--	--	--	460
Strontium(Sr)	mg/Kg	50	--	--	--	--	56000
Tin(Sn)	mg/Kg	50	--	--	--	--	180000
Organic Tin(OT*1)	mg/Kg	2.5	--	--	--	--	12
Zinc(Zn)	mg/Kg	50	--	--	--	--	46000
Conclusion	/	/	NA	NA	NA	NA	/

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Remark I:

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

Category II: in liquid or sticky toy material

Category III: in scraped-off toy material

Remark II:

Soluble Chromium (III) = soluble Chromium – soluble Chromium (VI)

Remark III:

*1 Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

If soluble tin content exceeded the screening limits of organic tin content, the result(s) was (were) verified by below method:

- EN 71-3:2019, Annex G by Gas Chromatography-Mass Spectroscopy analysis.

Remark IV: The test part(s) (1),(7),(12)-(15),(17),(19),(21) weight less than 100mg, the results calculate as 100mg.

Note:

- "--" = Not Regulated

- * = The mass of sample(s) is(are) less than 10mg, not applicable to test.

- NA = Not Applicable

J Entry 51&52 of Annex XVII to Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2015/326 on Phthalates content (formerly known as 2005/84/EC) in the components of submitted sample as the requirement of client

Test method: EN 14372:2004

Item	Unit	MDL	Result						Limit
			(1)+(3)	(4)+(5)+(6)	(7)	(8)	(9)+(10)	(11)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	See Remark
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Di-n-Octyl Phthalate(DNOP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisodecyl Phthalate(DIDP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
sum of DNOP,DIDP,DINP	mg/Kg	-	/	/	/	/	/	/	
sum of DEHP,DBP,BBP	mg/Kg	-	/	/	/	/	/	/	
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Result						Limit
			(12)	(13)	(14)	(15)	(16)	(17)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	See Remark
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Di-n-Octyl Phthalate(DNOP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisodecyl Phthalate(DIDP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
sum of DNOP,DIDP,DINP	mg/Kg	-	/	/	/	/	/	/	
sum of DEHP,DBP,BBP	mg/Kg	-	/	/	/	/	/	/	
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(18)	(19)	(20)	(21)	(35)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	See Remark
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	
Di-n-Octyl Phthalate(DNOP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisodecyl Phthalate(DIDP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	
sum of DNOP,DIDP,DINP	mg/Kg	-	/	/	/	/	/	
sum of DEHP,DBP,BBP	mg/Kg	-	/	/	/	/	/	
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Limit Remark:

- i Phthalates of DEHP, DBP and BBP shall not be used as substances or as constituents of preparations, at concentrations greater than 1000 mg/kg by mass of the plasticized material in toys and child care articles.
- ii Phthalates of DINP, DIDP and DNOP shall not be used as substances or as constituents of preparations, at concentrations greater than 1000 mg/kg by mass of the plasticized material in toys and child care articles which can be placed in the mouth by children.

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K Entry 23 of Annex XVII of Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EC) No 552/2009 and (EU) No 494/2011 and (EU) No 835/2012 and (EU) No 2016/217 on Cadmium (Cd) (formerly known as 91/338/EEC) in the components of submitted sample as the requirement of client

Test method: EN 1122:2001(E); IEC 62321-5:2013

Item	Unit	MDL	Result						Limit
			(1)+(3)	(4)+(5)+(6)	(7)	(8)	(9)+(10)	(11)	
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	See Remark
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(12)	(13)	(14)	(15)	(16)	(17)	
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	See Remark
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(18)	(19)	(20)	(21)	(35)	
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	See Remark
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Limit Remark:

In surface-coating: 1000 mg/kg;

In Plastic / Jewelry: 100 mg/kg.

L Entry 50 of Annex XVII to Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) No 1272/2013 & (EU) 2015/326 on PAHs content(formerly known as 2005/69/EC) (Category2) in the components of submitted sample as the requirement of client

Test method: AfPS GS 2014:01 PAK

Item	Unit	MDL	Result						Limit
			(1)	(3)	(4)	(5)	(6)	(7)	
Benzo[a]anthracene(BaA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Chrysene(CHR)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[b]fluoranthene (BbFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[j]fluoranthene (BjFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[k]fluoranthene (BkFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[e]pyrene (BeP)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[a]pyrene (BaP)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5

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Item	Unit	MDL	Result						Limit
			(1)	(3)	(4)	(5)	(6)	(7)	
Dibenzo[a,h]anthracene (DBA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(8)	(9)	(10)	(11)	(12)	(13)	
Benzo[a]anthracene(BaA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Chrysene(CHR)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[b]fluoranthene (BbFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[j]fluoranthene (BjFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[k]fluoranthene (BkFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[e]pyrene (BeP)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[a]pyrene (BaP)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Dibenzo[a,h]anthracene (DBA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(14)	(15)	(16)	(17)	(18)	
Benzo[a]anthracene(BaA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Chrysene(CHR)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[b]fluoranthene (BbFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[j]fluoranthene (BjFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[k]fluoranthene (BkFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[e]pyrene (BeP)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[a]pyrene (BaP)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Dibenzo[a,h]anthracene (DBA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	0.5
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result				Limit
			(19)	(20)	(21)	(35)	
Benzo[a]anthracene(BaA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	0.5
Chrysene(CHR)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	0.5

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Item	Unit	MDL	Result				Limit
			(19)	(20)	(21)	(35)	
Benzo[b]fluoranthene (BbFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[j]fluoranthene (BjFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[k]fluoranthene (BkFA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[e]pyrene (BeP)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	0.5
Benzo[a]pyrene (BaP)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	0.5
Dibenzo[a,h]anthracene (DBA)	mg/Kg	0.2	N.D.	N.D.	N.D.	N.D.	0.5
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Remark:

Category 1:

Articles placed on the market for supply to the general public, such articles include amongst others:

- 1) Sport equipment such as bicycles, golf clubs, racquets
- 2) Household utensils, trolleys, walking frames
- 3) Tools for domestic use
- 4) Clothing, footwear, gloves and sportswear
- 5) Watch-straps, wrist-bands, masks, head-bands

Category2: Toys, including activity toys, and childcare articles

M Part A of Annex I to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs) - Short Chain Chlorinated Paraffin (C10 - C13) content in the components of submitted sample as the requirement of client

Test method: US EPA 3540C:1996/ US EPA 3550C:2007 & US EPA 8270D:2014

Item	Unit	MDL	Result						Limit
			(1)+(3)	(4)+(5)+(6)	(7)	(8)	(9)+(10)	(11)	
short-chained chlorinated paraffins(SCCP)	mg/Kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(12)	(13)	(14)	(15)	(16)	(17)	
short-chained chlorinated paraffins(SCCP)	mg/Kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(18)	(19)	(20)	(21)	(35)	
short-chained chlorinated paraffins(SCCP)	mg/Kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	1500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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N AS/NZS ISO 8124

1.AS/NZS 8124.1:2016 - Mechanical and Physical Tests (excluding Annex B)

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	Normal use	Pass
4.2	Reasonably foreseeable abuse	NA
4.3	Material	Pass
4.4	Small parts	NA
4.5	Shape, size and strength of certain toys	NA
4.6	Edges	NA
4.7	Points	NA
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	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
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

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Section	Description	Result
4.31	Magnets and magnetic components	NA
Annex B	Safety-labelling guidelines and manufacturer' s markings	
Annex B.2	Safety-labeling guidelines	NR
Annex B.3	Instructional literature	NR
Annex B.4	Manufacturer' s markings	NR

NA = Not Applicable.

NR = Not Requested.

Use and abuse testing:

Applicable section	Description	Test Condition
5.24.2	Drop test	NA
5.24.5	Torque test	NA
5.24.6	Tension test	NA
5.24.7	Compression test	NA

2.AS/NZS 8124.2:2016 - Flammability Tests

Section	Description	Result
4	Requirements	
4.1	General	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 (animals and dolls etc.) with a piled or textile surface	NA

NA = Not Applicable.

3.AS/NZS ISO 8124.3:2012+A1:2016 - Migration of Certain Elements Tests

Test method: AS/NZS ISO 8124.3:2012 Amd1 : 2016

Item	Unit	MDL	Result						Limit
			(1)	(7)	(8)	(9)	(10)	(11)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Antimony(Sb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Arsenic(As)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Barium(Ba)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	75
Chromium(Cr)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60

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Item	Unit	MDL	Result						Limit
			(1)	(7)	(8)	(9)	(10)	(11)	
Selenium(Se)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(12)	(13)	(14)	(15)	(16)	(17)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Antimony(Sb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Arsenic(As)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Barium(Ba)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	75
Chromium(Cr)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Selenium(Se)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(18)	(19)	(20)	(21)	(22)	(24)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Antimony(Sb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Arsenic(As)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Barium(Ba)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	75
Chromium(Cr)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Mercury(Hg)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Selenium(Se)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(35)	(3*)	(4*)	(5*)	(6*)	(36*)	
Lead(Pb)	mg/Kg	10	N.D.	--	--	--	--	--	90
Antimony(Sb)	mg/Kg	10	N.D.	--	--	--	--	--	60
Arsenic(As)	mg/Kg	5	N.D.	--	--	--	--	--	25
Barium(Ba)	mg/Kg	10	N.D.	--	--	--	--	--	1000

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Item	Unit	MDL	Result						Limit
			(35)	(3*)	(4*)	(5*)	(6*)	(36*)	
Cadmium(Cd)	mg/Kg	10	N.D.	--	--	--	--	--	75
Chromium(Cr)	mg/Kg	10	N.D.	--	--	--	--	--	60
Mercury(Hg)	mg/Kg	10	N.D.	--	--	--	--	--	60
Selenium(Se)	mg/Kg	10	N.D.	--	--	--	--	--	500
Conclusion	/	/	Pass	NA	NA	NA	NA	NA	/

Note:

- "--" = Not Regulated
- * = The mass of sample(s) is(are) less than 10mg, not applicable to test.
- NA = Not Applicable

O Australia Consumer protection notice No.11 of 2011 - DEHP content

Test method: CPSC-CH-C1001-09.4-2018

Item	Unit	MDL	Result						Limit
			(1)+(3)	(4)+(5)+(6)	(7)	(8)	(9)+(10)	(11)	
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(12)	(13)	(14)	(15)	(16)	(17)	
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(18)	(19)	(20)	(21)	(35)	
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	10000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Note:

- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit
- "+" = Composite testing.
- The Result less than MDL are not taken into account while calculating the sum contents.

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P EU Directive 2013/56/EU Of The European Parliament And Of The Council of 20 November 2013 (amending Directive 2006/66/EC of the European Parliament and of the Council on batteries and accumulators and waste batteries and accumulators as regards the placing on the market of portable batteries and accumulators containing cadmium intended for use in cordless power tools, and of button cells with low mercury content, and repealing Commission Decision 2009/603/EC) on Mercury, Cadmium and Lead Content

Remark: This item is not applicable.

Q US Mercury –Containing Battery Management Act Public Law No104-142 (H.R. 2024) on Mercury content in the battery

Remark: This item is not applicable.

FINAL

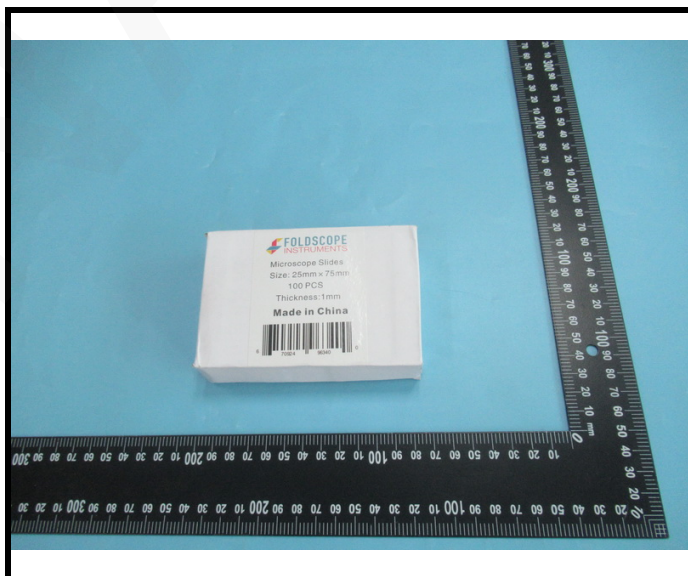
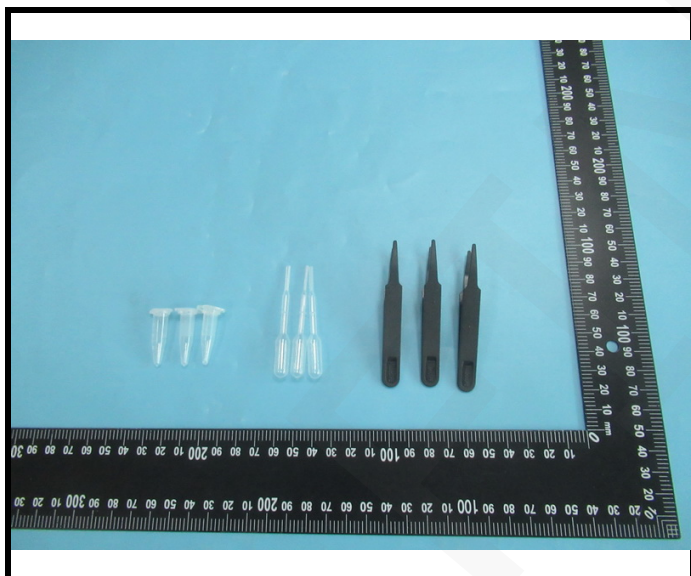
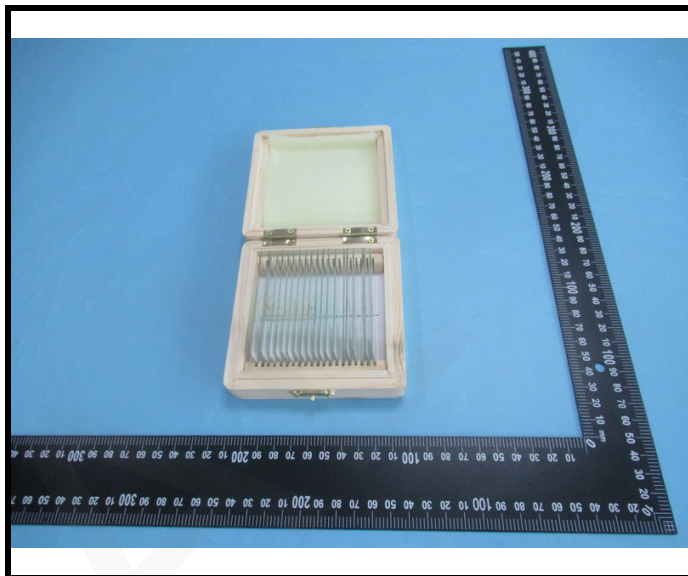
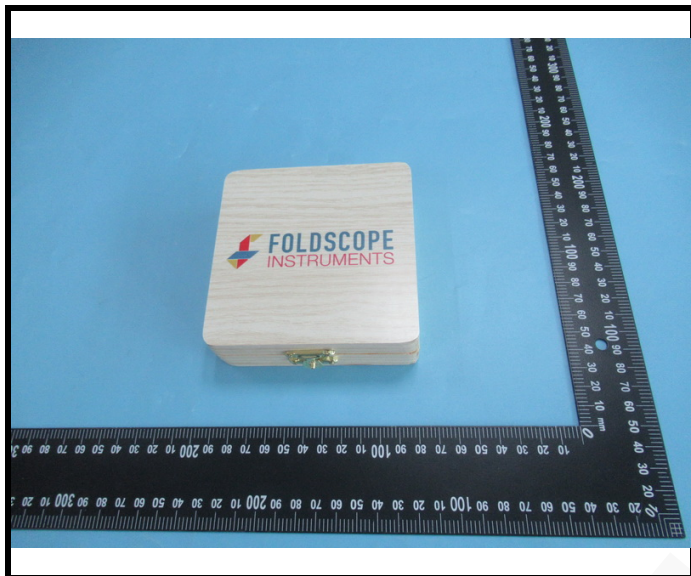
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Photograph of Sample

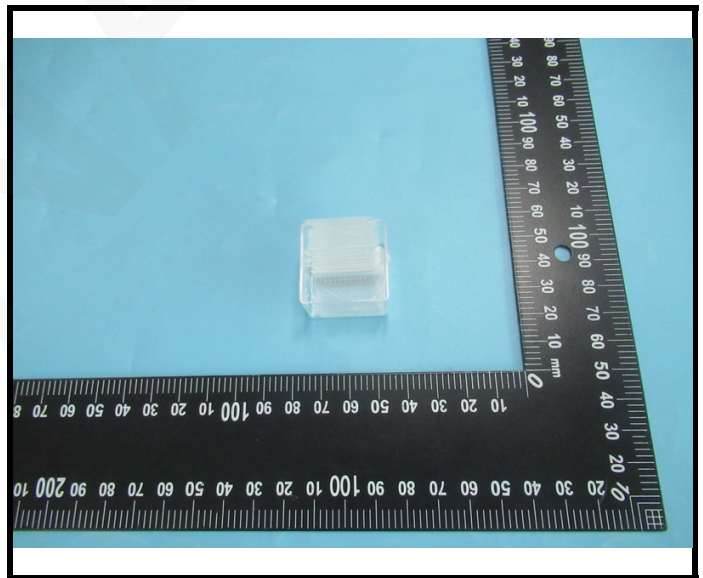
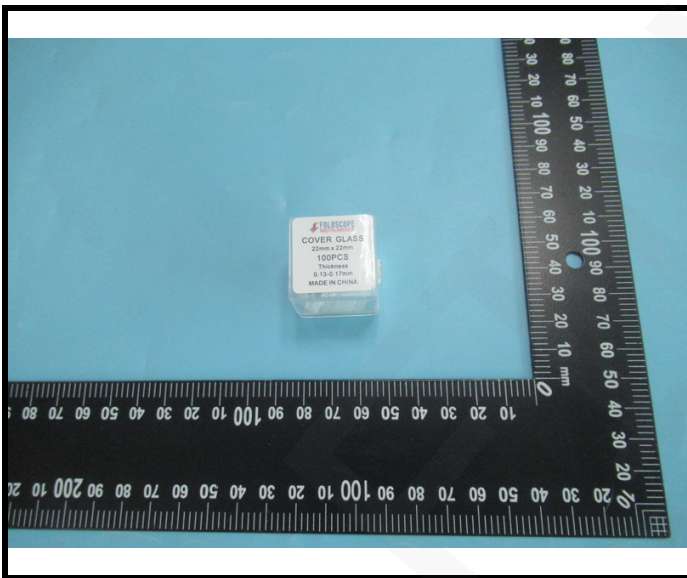
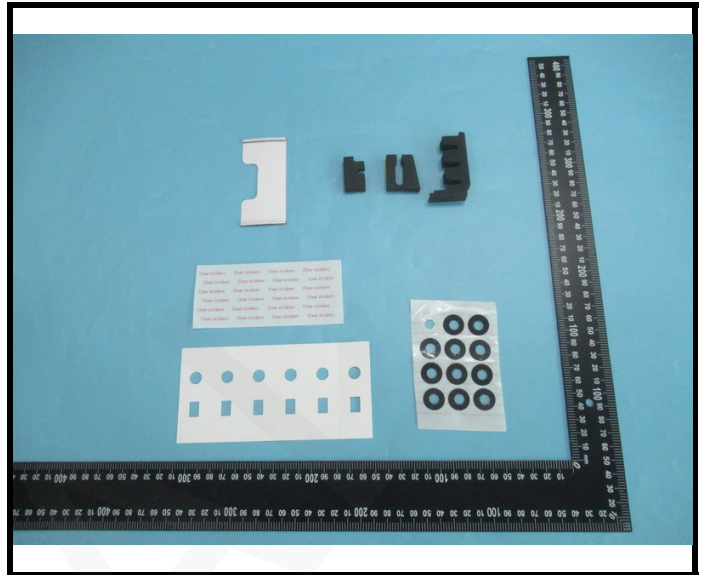
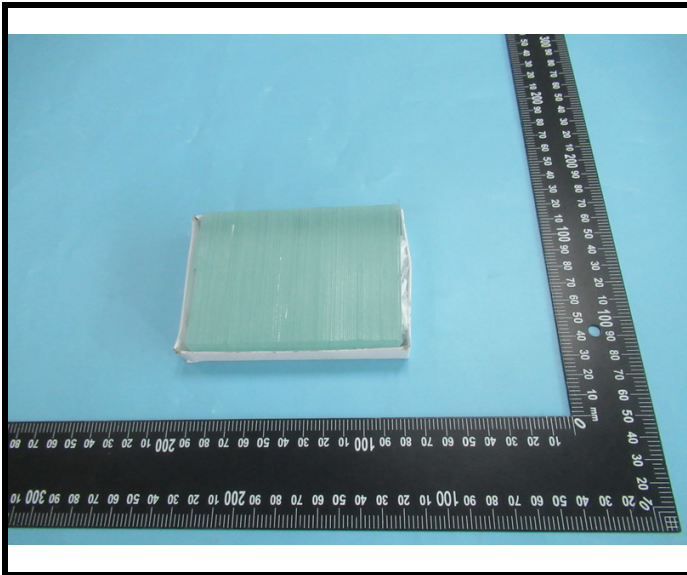


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Statement:

- 1.This report cannot be reproduced except in full, without prior written approval of the Company.
- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
- 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
- 6.The test samples were in good condition before testing.

*** End of Report ***