



# Test Report

No.T32320270409TY

Date: Jul 10, 2023

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SAFARI LTD  
8010 WESTSIDE INDUSTRIAL DRIVE, JACKSONVILLE FL 32219

The following samples were submitted and identified on behalf of the client as

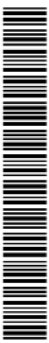
Collection	Item #	Item Name	CORRESPONDING ITEM #
WILD WILDLIFE	113389	Alligator	
WILD WILDLIFE	112589	Black Bear	
WILD WILDLIFE	112989	Black Wolf	
WILD WILDLIFE	100302	CHIMPANZEE	
WILD WILDLIFE	113089	Coyote	
WILD WILDLIFE	100274	GRIZZLY BEAR	
WILD WILDLIFE	100034	Jaguar	
WILD WILDLIFE	111289	Lion	
WILD WILDLIFE	113289	Moose	
WILD WILDLIFE	111389	Siberian Tiger	
WILD WILDLIFE	111589	Silverback Gorilla	
WILD WILDLIFE	111989	White Rhino	
WILD WILDLIFE	113589	Whitetail Buck	
WILD WILDLIFE	111489	Zebra	

Case No. : CA323202624169  
Country of Origin : CHINA  
Country of Destination : USA, EU, CANADA, AUSTRALIA  
Labeled Age Grading : 1+  
Requested Age Grading : UNDER 3 YEARS  
Age Group Assessed As Per Age Guideline : 1 YEAR+  
Age Group Applied in Testing : 1 YEAR+  
Sample Receiving Date : MAR 20, 2023  
Testing Period : MAR 20, 2023 – JUN 05, 2023

Test Requested	Conclusion
EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC- Safety of toys	SEE RESULT
EN 71-2:2020 – Safety of toys – Part 2: Flammability	PASS
Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements (All conclusive testing)	PASS
European Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – Cadmium Content	PASS
European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Organostannic compounds	PASS
European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalate content	PASS
Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – PAHs Content	PASS
Commission Directive (EU) 2017/898 amending Appendix C of Annex II to European Directive 2009/48/EC – Migration BPA	PASS

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Test Requested	Conclusion
Article 11 of European Directive 94/62/EC and its amendments – Total Lead, Cadmium, Mercury and Hexavalent Chromium Content	PASS
ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS
For existence of tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products	SEE RESULT
CPSIA section 101 - Total Lead content	--
CPSIA - Lead in Paint/Similar Surface Coating Materials	PASS
CPSIA - Lead in Accessible Substrate Materials	PASS
US 16 CFR Part 1307 – Phthalates Content	PASS
US California Proposition 65 – Total Lead Content	PASS
California Prop 65 - Phthalates Content	PASS
US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) (formerly drafted by CONEG) – Total Lead, Cadmium, Mercury and Hexavalent Chromium content	PASS
Toys Regulations SOR/2011-17 amended up to January 11, 2019 of Canada Consumer Product Safety Act. (Including amendments SOR/2012-71, SOR/2016-195, SOR/2016-302 and SOR/2018-138)	PASS
Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing Lead Regulations, SOR/2018-83 – Total Lead content	PASS
Canada Phthalates Regulation (SOR/2016-188)( formerly restricted under SOR/2010-298)	PASS
AS/NZS ISO 8124.1:2019 + A1:2020 + A2:2020 – Safety of toys – Part 1: Safety aspects related to mechanical and physical properties	PASS
AS/NZS 8124.2:2016 – Safety of toys – Part 2: Flammability	PASS
AS/NZS ISO 8124.3: 2021 – Safety of toys – Part 3 – Migration of Certain Elements	PASS
According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	PASS
CPSC 16 CFR 1303 - Lead in Paint/Similar Surface Coating Materials	PASS

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
SGS Hong Kong Ltd.

Wong Sau Wai, Athena  
Assistant Technical Manager

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**TEST RESULTS:**

**EN 71-1:2014+A1:2018– SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES**

AS SPECIFIED IN EN 71-1:2014+A1:2018– SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
5	Toys intended for children under 36 months	<u>Pass</u>
5.1	General requirements:	
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	<u>Pass</u>
5.1b	Torque test (Test method 8.3)	<u>Pass</u>
	Tension test (Test method 8.4)	<u>Pass</u>
	Drop test (Test method 8.5)	<u>Pass</u>
	Impact test (Test method 8.7)	<u>Pass</u>
	Compression test (Test method 8.8)	<u>Pass</u>
	Sharp edge (Test method 8.11)	<u>Pass</u>
	Sharp point (Test method 8.12)	<u>Pass</u>
7	Warnings, markings and instructions for use	
7.1	General Requirements	<u>Pass</u>
	Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing the following aspects:	
	a) Emphasising the warning	
	b) Contrast, background and colours	
	c) Reflecting surfaces and obscuring material	
	d) Font type	
	e) Font size	
	f) Logical direction of text	
	For more details, see EN 71-1/BS EN 71-1.	

Only English warnings were checked for the clause 7. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.

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**LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS**

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not Applicable	--
CE mark	Present	Packaging
Importer's Name & Address	Present	Packaging
Manufacturer's Name & Address	Present	Packaging
Product ID	Present	Toy & Packaging

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable.
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

**EN 71-2:2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY**

AS SPECIFIED IN EN 71-2:2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>

Type of gas: Butane gas used in the test burner

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**Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements**

Category III: Scraped-off toy material

Method: With reference to EN71-3:2019 + A1:2021. Analysis of general elements was performed by ICP-OES. / ICP-MS. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis and organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)	MDL	Permissible Limit
<b>Specimen No.</b>	1 – 25	--	--
<b>Mass of trace amount</b> (mg)	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	5	17
Soluble Chromium <sup>+</sup> (Cr) (mg/kg)	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	50	46000

Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)		MDL (mg/kg)
	1 – 25		
Methyl tin (MeT)	ND		0.3
Di-n-propyl tin (DProT)	ND		0.3
Dimethyl tin (DMT)	ND		0.3
Butyl tin (BuT)	ND		0.3
Dibutyl tin (DBT)	ND		0.3
Tributyl tin (TBT)	ND		0.3
n-Octyl tin (MOT)	ND		0.3
Tetrabutyl tin (TeBT)	ND		0.3
Diphenyl tin (DPHT)	ND		0.3
Di-n-octyl tin (DOT)	ND		0.3
Triphenyl tin (TPHT)	ND		0.3

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Specimen Description:

1. Black coating (113389, 112589, 112989, 100302, 113089, 100274, 100034, 111289, 113289, 111389, 111589, 111989, 113589, 111489)
2. Dark grey coating (113389, 100302, 113089, 100274, 113289)
3. Lt brown coating (112989, 100302, 100274, 100034, 111289, 113589, 111489)
4. Pale brown coating (113089, 111289, 113289, 113589)
5. Grey coating (113089, 111989)
6. Chocolate brown coating (100274, 111589, 111489)
7. White coating (111289, 111389, 111589)
8. Turquoise coating (111289)
9. Dull yellow coating (111289)
10. Lt purple coating (111289)
11. Dull coral coating (111289)
12. Dull green coating (111289)
13. Neon green coating (113289)
14. Lt grey coating (111589)
15. Ivory coating (113589)
16. Powder brown soft plastic (113389)
17. Dull black soft plastic (112589, 112989, 100302, 111589)
18. White soft plastic (113089, 100034, 111489)
19. Lt brown soft plastic (100274)
20. Beige soft plastic (113289)
21. Coffee soft plastic (111289, 111389)
22. Flesh soft plastic (111289)
23. Transparent soft plastic (111289)
24. Lt taupe soft plastic (111989)
25. Milky soft plastic (113589)

Note:

- mg/kg = milligram per kilogram
- mg = milligram
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- 1% = 10000 mg/kg = 10000 ppm
- + Soluble Chromium is not restricted by EN71-3:2019 + A1:2021, results shown only for reference

As received, the below test part is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN71-3:2019 + A1:2021.

1. Khaki coating (113389, 270029, 100274)
2. Dull pink coating (100034)
3. Brown coating (100034, 111589, 113589)
4. Brown -red coating (100034)
5. Beige coating (111289, 111389, 113589)
6. Shiny turquoise coating (111289)
7. Golden coating (111289)
8. Orangish brown coating (111289, 111289, 111389)
9. Blue coating (111289)
10. Green coating (111289)
11. Pink coating (111289)
12. Dull red coating (111289, 111289)
13. Pale orange coating (111289)
14. Shiny violet coating (111289)
15. Pale pink coating (111289)
16. Shiny brown coating (111289)
17. Dull peach coating (111289)
18. Dull purple coating (111289)
19. Dull orange coating (111289)

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As received, the below test part is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN71-3:2019 + A1:2021.

- 20. Dull pink coating (111289)
- 21. Shiny green coating (113289)
- 22. Shiny blue coating (113289)
- 23. Lt violet coating (113289)
- 24. Dk blue coating (113289)
- 25. Orange coating (111389)
- 26. Dull flesh coating (111389)
- 27. Warm grey coating (100302, 111289, 111989)

**European Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – Cadmium Content**

Method: With reference to EN1122: 2001 method B / IEC 62321-5:2013

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS)

For Plastic

Test Item(s)	Cadmium (Cd)
<b>Permissible Limit (mg/kg)</b>	<b>100</b>
<b>Specimen Description</b>	<b>Result(s) (mg/kg)</b>
1. Powder brown soft plastic (113389) + Dull black soft plastic (112589, 112989, 100302, 111589) + White soft plastic (113089, 100034, 111489)	ND
2. Lt brown soft plastic (100274) + Beige soft plastic (113289) + Coffee soft plastic (111289, 111389)	ND
3. Flesh soft plastic (111289) + Transparent soft plastic (111289)	ND
4. Lt taupe soft plastic (111989) + Milky soft plastic (113589)	ND

For Paint on Painted Article

Test Item(s)	Cadmium (Cd)
<b>Permissible Limit (mg/kg)</b>	<b>1000</b>
<b>Specimen Description</b>	<b>Result(s) (mg/kg)</b>
1. Multi-color coating (113389)	ND
2. Multi-color coating (112589)	ND
3. Multi-color coating (112989)	ND
4. Multi-color coating (100302)	ND
5. Multi-color coating (113089)	ND
6. Multi-color coating (100274)	ND
7. Multi-color coating (100034)	ND
8. Multi-color coating (111289)	ND
9. Multi-color coating (113289)	ND
10. Multi-color coating (111389)	ND
11. Multi-color coating (111589)	ND
12. Multi-color coating (111989)	ND
13. Multi-color coating (113589)	ND
14. Multi-color coating (111489)	ND

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- Note:
- Permissible and Reference Limit specified by Commission Regulation (EU) No 494/2011 & Commission Regulation (EU) No 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under entry 23 of Regulation (EC) No 552/2009 and directive 91/338/EC).
  - mg/kg = milligram per kilogram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 5 mg/kg
  - 1% = 10000 mg/kg = 10000 ppm
  - Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight

**European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Organostannic compounds**

Method: With reference to ISO 17353: 2004

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Result(s) (%)	MDL (%)	Permissible Limit (%)
<b>Specimen No.</b>	<b>1 – 6</b>		
Dibutyltin (DBT) (as Tin)	ND	0.010	0.1
Dioctyltin (DOT) (as Tin)	ND	0.010	0.1
Tri-substituted Organostannic Compounds (as Tin)	ND	0.010	0.1

Specimen Description:

1. Powder brown soft plastic w/ multi-color coating (113389) + Dull black soft plastic w/ multi-color coating (112589) + Dull black soft plastic w/ multi-color coating (112989)
2. Dull black soft plastic w/ multi-color coating (100302) + Dull black soft plastic w/ multi-color coating (111589) + White soft plastic w/ multi-color coating (113089)
3. White soft plastic w/ multi-color coating (100034) + White soft plastic w/multi-color coating (111489) + Lt brown soft plastic w/ multi-color coating (100274)
4. Beige soft plastic w/ multi-color coating (113289) + Coffee soft plastic w/ multi-color coating (111289) + Coffee soft plastic w/ multi-color coating (111389)
5. Flesh soft plastic w/ multi-color coating (111289) + Transparent soft plastic w/ multi-color coating (111289)
6. Lt taupe soft plastic w/ multi-color coating (111989) + Milky soft plastic w/ multi-color coating (113589)

- Note:
- % = percentage by weight
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - Tri-substituted Organostannic compounds are represented by Tributyltin (TBT) compounds, Triphenyltin (TPhT) compounds, Tripropyltin (TPT) compounds, Tricyclohexyltin (TCyT) compounds and Tri-n-octyltin (TOT) compounds, Trimethyltin (TMT) compounds
  - Composite test has been performed as per client's request and the results are calculated using the total specimen weight

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**European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalate content**

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Materials can be placed in the mouth for toys & childcare articles

Test Item(s)	CAS No.	Result (s) (%)	MDL (%)	Permissible Limit (%)
Specimen No.	--	1 – 6		
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	--	0.1

Specimen Description:

1. Powder brown soft plastic w/ multi-color coating (113389) + Dull black soft plastic w/ multi-color coating (112589) + Dull black soft plastic w/ multi-color coating (112989)
2. Dull black soft plastic w/ multi-color coating (100302) + Dull black soft plastic w/ multi-color coating (111589) + White soft plastic w/ multi-color coating (113089)
3. White soft plastic w/ multi-color coating (100034) + White soft plastic w/multi-color coating (111489) + Lt brown soft plastic w/ multi-color coating (100274)
4. Beige soft plastic w/ multi-color coating (113289) + Coffee soft plastic w/ multi-color coating (111289) + Coffee soft plastic w/ multi-color coating (111389)
5. Flesh soft plastic w// multi-color coating (111289) + Transparent soft plastic w/ multi-color coating (111289)
6. Lt taupe soft plastic w/ multi-color coating (111989) + Milky soft plastic w/ multi-color coating (113589)

Note:

- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- % = percentage by weight
- Composite test has been performed as per client's request and the results are calculated using the total specimen weight

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**Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – PAHs Content**

Method: With reference to AfPS GS 2019:01 PAK method.

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

For Toy or childcare product

Test Item(s) Specimen No.	CAS No.	Result(s) (mg/kg) 1 – 6	MDL (mg/kg)	Limit (mg/kg)
1. Benzo[a]anthracene	56-55-3	ND	0.1	0.5
2. Chrysene	218-01-9	ND	0.1	0.5
3. Benzo[b]fluoranthene	205-99-2	ND	0.1	0.5
4. Benzo[k]fluoranthene	207-08-9	ND	0.1	0.5
5. Benzo[j]fluoranthene	205-82-3	ND	0.1	0.5
6. Benzo[a]pyrene	50-32-8	ND	0.1	0.5
7. Benzo[e]pyrene	192-97-2	ND	0.1	0.5
8. Dibenzo[a,h]anthracene	53-70-3	ND	0.1	0.5

**Specimen Description:**

1. Powder brown soft plastic w/ multi-color coating (113389) + Dull black soft plastic w/ multi-color coating (112589) + Dull black soft plastic w/ multi-color coating (112989)
2. Dull black soft plastic w/ multi-color coating (100302) + Dull black soft plastic w/ multi-color coating (111589) + White soft plastic w/ multi-color coating (113089)
3. White soft plastic w/ multi-color coating (100034) + White soft plastic w/multi-color coating (111489) + Lt brown soft plastic w/ multi-color coating (100274)
4. Beige soft plastic w/ multi-color coating (113289) + Coffee soft plastic w/ multi-color coating (111289) + Coffee soft plastic w/ multi-color coating (111389)
5. Flesh soft plastic w// multi-color coating (111289) + Transparent soft plastic w/ multi-color coating (111289)
6. Lt taupe soft plastic w/ multi-color coating (111989) + Milky soft plastic w/ multi-color coating (113589)

- Note:
- ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - mg/kg = milligram per kilogram
  - Composite test has been performed as per client’s request and the results are calculated using the total specimen weight

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**Commission Directive (EU) 2017/898 amending Appendix C of Annex II to European Directive 2009/48/EC – Migration BPA**

Method: With reference to EN71-10: 2005 and EN71-11: 2005

Analysis was performed by Triple Quadrupole Liquid Chromatograph Mass Spectrometer (LC-MS/MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Test Item(s)	CAS No.	Result(s) (mg/L)	MDL (mg/L)	Permissible limit (mg/L)
<b>Specimen No.</b>	--	<b>1 – 6</b>		
Bisphenol A	80-05-7	ND	0.010	0.04

**Specimen Description:**

1. Powder brown soft plastic w/ multi-color coating (113389) + Dull black soft plastic w/ multi-color coating (112589) + Dull black soft plastic w/ multi-color coating (112989)
2. Dull black soft plastic w/ multi-color coating (100302) + Dull black soft plastic w/ multi-color coating (111589) + White soft plastic w/ multi-color coating (113089)
3. White soft plastic w/ multi-color coating (100034) + White soft plastic w/multi-color coating (111489) + Lt brown soft plastic w/ multi-color coating (100274)
4. Beige soft plastic w/ multi-color coating (113289) + Coffee soft plastic w/ multi-color coating (111289) + Coffee soft plastic w/ multi-color coating (111389)
5. Flesh soft plastic w// multi-color coating (111289) + Transparent soft plastic w/ multi-color coating (111289)
6. Lt taupe soft plastic w/ multi-color coating (111989) + Milky soft plastic w/ multi-color coating (113589)

- Note:
- mg/L = milligram per liter
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight

**Article 11 of European Directive 94/62/EC and its amendments – Total Lead, Cadmium, Mercury and Hexavalent Chromium Content**

Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC62321-7-1:2015

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Ultraviolet Visible Spectrophotometer (UV-Vis)

Test Item(s)	Pb	Cd	Hg	Cr(VI)	Total (Pb + Cd + Cr(VI)+ Hg)
<b>MDL (mg/kg)</b>	5	5	5	8	--
<b>Permissible Limit (mg/kg)</b>	--	--	--	--	100
<b>Specimen No.</b>	--	--	--	--	--
1 – 4	ND	ND	ND	ND <sup>#</sup>	ND

**Specimen Description:**

1. White paper w/ multi color dots coating (113389, 112589, 112989, 100302, 113089, 100274, 100034, 111289, 113289, 111389, 111589, 111989, 113589, 111489) + White paper w/ multi color dots coating w/milky paper backing (111289)
2. Transparent soft plastic (113389, 112589, 112989, 100302, 113089, 100274, 100034, 111289, 113289, 111389, 111589, 111989, 113589, 111489) + Transparent soft plastic w/ black, white printing (113389, 112589, 112989, 100302, 113089, 100274, 100034, 113289, 111389, 111589, 111989, 113589, 111489)
3. Semi transparent soft plastic (111289) + Translucent plastic (111289, 113289)
4. Silvery metal (111289)

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- Note:
- mg/kg = milligram per kilogram
  - 1% = 10000 mg/kg = 10000 ppm
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - # = The result of Hexavalent chromium (Cr(VI)) is considered as “Not Detected” since the total chromium content determined by acid digestion is “Not Detected”.
  - Composite test has been performed as per client’s request and the results are calculated using the minimum specimen weight

**ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY**

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	Pass
4.2	Flammability Test	Pass (See Detail of test result)
4.3	Toxicology	
4.3.5	Heavy Elements	
	4.3.5.1 Heavy Elements in Paint/Similar Surface Coating Materials	Pass (See Detail of test result)
	4.3.5.2 Heavy Metal in Substrate Materials	Pass (See Detail of test result)
4.6.1	Small Objects	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
7	Producer’s Markings	
7.1	Producer’s Markings	Pass
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	Pass

\*\* Visual Examination

Detail of test result:

ASTM F963-17, Clause 4.2 – Flammability Test  
Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
ALL SAMPLE	Did not ignite

Requirement: A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at a rate greater than 0.1 in/sec along its major axis.

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**ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials**

Method: With reference to CPSC-CH-E1003-09.1 / ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)	Lead (Pb)
<b>MDL (ppm)</b>	10
<b>Total Limit (ppm)</b>	90
Specimen Description	Result(s) (ppm)
1. Multi-color coating (113389)	ND
2. Multi-color coating (112589)	ND
3. Multi-color coating (112989)	ND
4. Multi-color coating (100302)	ND
5. Multi-color coating (113089)	ND
6. Multi-color coating (100274)	ND
7. Multi-color coating (100034)	ND
8. Multi-color coating (111289)	ND
9. Multi-color coating (113289)	ND
10. Multi-color coating (111389)	ND
11. Multi-color coating (111589)	ND
12. Multi-color coating (111989)	ND
13. Multi-color coating (113589)	ND
14. Multi-color coating (111489)	ND

Soluble Heavy Metal Content

Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se
<b>MDL (ppm)</b>	5	5	2.5	10	5	5	5	10
<b>Migration Limit (ppm)</b>	90	60	25	1000	75	60	60	500
Specimen No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)						
1 – 15	/	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

- Black coating (113389, 112589, 112989, 100302, 113089, 100274, 100034, 111289, 113289, 111389, 111589, 111989, 113589, 111489)
- Dark grey coating (113389, 100302, 113089, 100274, 113289)
- Lt brown coating (112989, 100302, 100274, 100034, 111289, 113589, 111489)
- Pale brown coating (113089, 111289, 113289, 113589)
- Grey coating (113089, 111989)
- Chocolate brown coating (100274, 111589, 111489)
- White coating (111289, 111389, 111589)
- Turquoise coating (111289)
- Dull yellow coating (111289)
- Lt purple coating (111289)
- Dull coral coating (111289)
- Dull green coating (111289)
- Neon green coating (113289)
- Lt grey coating (111589)
- Ivory coating (113589)

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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.

- Note:
- ppm = parts per million
  - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions

- Khaki coating (113389, 270029, 100274)
- Dull pink coating (100034)
- Brown coating (100034, 111589, 113589)
- Brown-red coating (100034)
- Beige coating (111289, 111389, 113589)
- Shiny turquoise coating (111289)
- Golden coating (111289)
- Orangish brown coating (111289, 111289, 111389)
- Blue coating (111289)
- Green coating (111289)
- Pink coating (111289)
- Dull red coating (111289, 111289)
- Pale orange coating (111289)
- Shiny violet coating (111289)
- Pale pink coating (111289)
- Shiny brown coating (111289)
- Dull peach coating (111289)
- Dull purple coating (111289)
- Dull orange coating (111289)
- Dull pink coating (111289)
- Shiny green coating (113289)
- Shiny blue coating (113289)
- Lt violet coating (113289)
- Dk blue coating (113289)
- Orange coating (111389)
- Dull flesh coating (111389)
- Warm grey coating (100302, 111289, 111989)

**ASTM F963-17, Clause 4.3.5.2 – Heavy Elements in Substrate Materials**

Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3 / ASTM F963-17 Clause 8.3 / CPSC-CH-E1004-11

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

Total Lead Content

Test Item(s)	Lead (Pb)
<b>MDL (ppm)</b>	10
<b>Total Limit (ppm)</b>	100
Specimen Description	Result(s) (ppm)
1. Powder brown soft plastic (113389) + Dull black soft plastic (112589, 112989, 100302, 111589) + White soft plastic (113089, 100034, 111489)	ND
2. Lt brown soft plastic (100274) + Beige soft plastic (113289) + Coffee soft plastic (111289, 111389)	ND
3. Flesh soft plastic (111289) + Transparent soft plastic (111289)	ND
4. Lt taupe soft plastic (111989) + Milky soft plastic (113589)	ND

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Soluble Heavy Metal Content

Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se
<b>MDL (ppm)</b>	5	5	2.5	10	5	5	5	10
<b>Migration Limit (ppm) -- Other Than Modeling Clays</b>	90	60	25	1000	75	60	60	500
Specimen No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)						
1 – 10	/	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Powder brown soft plastic (113389)
2. Dull black soft plastic (112589, 112989, 100302, 111589)
3. White soft plastic (113089, 100034, 111489)
4. Lt brown soft plastic (100274)
5. Beige soft plastic (113289)
6. Coffee soft plastic (111289, 111389)
7. Flesh soft plastic (111289)
8. Transparent soft plastic (111289)
9. Lt taupe soft plastic (111989)
10. Milky soft plastic (113589)

- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - 1% = 10000 mg/kg = 10000 ppm

**Tracking label per 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products.**

As specified in 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products.

- Tracking label on the packaging : Present
- Tracking label on the product : Present

Note: The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

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**CPSIA - Lead in Paint/Similar Surface Coating Materials**

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)	Lead (Pb)
Permissible Limit (ppm)	90
Specimen Description	Result(s) (ppm)
1. Multi-color coating (113389)	ND
2. Multi-color coating (112589)	ND
3. Multi-color coating (112989)	ND
4. Multi-color coating (100302)	ND
5. Multi-color coating (113089)	ND
6. Multi-color coating (100274)	ND
7. Multi-color coating (100034)	ND
8. Multi-color coating (111289)	ND
9. Multi-color coating (113289)	ND
10. Multi-color coating (111389)	ND
11. Multi-color coating (111589)	ND
12. Multi-color coating (111989)	ND
13. Multi-color coating (113589)	ND
14. Multi-color coating (111489)	ND

- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 10 ppm
  - 1% = 10000 mg/kg = 10000 ppm

**CPSIA - Lead in Accessible Substrate Materials**

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product

Test Item(s)	Lead (Pb)
Permissible Limit (ppm)	100
Specimen Description	Result(s) (ppm)
1. Powder brown soft plastic (113389) + Dull black soft plastic (112589, 112989, 100302, 111589) + White soft plastic (113089, 100034, 111489)	ND
2. Lt brown soft plastic (100274) + Beige soft plastic (113289) + Coffee soft plastic (111289, 111389)	ND
3. Flesh soft plastic (111289) + Transparent soft plastic (111289)	ND
4. Lt taupe soft plastic (111989) + Milky soft plastic (113589)	ND

- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 10 ppm
  - 1% = 10000 mg/kg = 10000 ppm
  - Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight

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**US 16 CFR Part 1307 – Phthalates Content**

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Test Item(s)	CAS No.	Result (s) (%)	MDL (%)	Permissible Limit (%)
<b>Specimen No.</b>	--	<b>1 – 6</b>		
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	0.010	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.003	0.1
Di-n-pentyl phthalate (DPP/DPEP/DPENP)	131-18-0	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	0.003	0.1

Specimen Description:

1. Powder brown soft plastic w/ multi-color coating (113389) + Dull black soft plastic w/ multi-color coating (112589) + Dull black soft plastic w/ multi-color coating (112989)
2. Dull black soft plastic w/ multi-color coating (100302) + Dull black soft plastic w/ multi-color coating (111589) + White soft plastic w/ multi-color coating (113089)
3. White soft plastic w/ multi-color coating (100034) + White soft plastic w/multi-color coating (111489) + Lt brown soft plastic w/ multi-color coating (100274)
4. Beige soft plastic w/ multi-color coating (113289) + Coffee soft plastic w/ multi-color coating (111289) + Coffee soft plastic w/ multi-color coating (111389)
5. Flesh soft plastic w// multi-color coating (111289) + Transparent soft plastic w/ multi-color coating (111289)
6. Lt taupe soft plastic w/ multi-color coating (111989) + Milky soft plastic w/ multi-color coating (113589)

- Note:
- % = percentage by weight
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - 1% = 10000 mg/kg = 10000 ppm
  - Composite test has been performed as per client's request and the results are calculated using the total specimen weight

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## US California Proposition 65 – Total Lead Content

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

Test Item(s)	Lead (Pb)
Specimen Description	Result(s) (ppm)
1. Powder brown soft plastic (113389) + Dull black soft plastic (112589, 112989, 100302, 111589) + White soft plastic (113089, 100034, 111489)	ND
2. Lt brown soft plastic (100274) + Beige soft plastic (113289) + Coffee soft plastic (111289, 111389)	ND
3. Flesh soft plastic (111289) + Transparent soft plastic (111289)	ND
4. Lt taupe soft plastic (111989) + Milky soft plastic (113589)	ND
5. Multi-color coating (113389)	ND
6. Multi-color coating (112589)	ND
7. Multi-color coating (112989)	ND
8. Multi-color coating (100302)	ND
9. Multi-color coating (113089)	ND
10. Multi-color coating (100274)	ND
11. Multi-color coating (100034)	ND
12. Multi-color coating (111289)	ND
13. Multi-color coating (113289)	ND
14. Multi-color coating (111389)	ND
15. Multi-color coating (111589)	ND
16. Multi-color coating (111989)	ND
17. Multi-color coating (113589)	ND
18. Multi-color coating (111489)	ND

- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - 1% = 10000mg/kg=10000ppm
  - MDL = Method Detection Limit =10 ppm
  - Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight

**Remark: Summary of permissible limit(s) of Lead requirement otherwise warning label required.**

Requirement(s)	Permissible Limit of Lead (ppm)	Effective Date
California Proposition 65 (ACSC Case No. RG-07-356892)	Surface Coating	90
	Accessible substrate	100

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**California Prop 65 - Phthalates Content**

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Test Item(s)	CAS No.	Result(s) (%)	MDL (%)
<b>Specimen No.</b>	--	<b>1 – 6</b>	
Dibutyl phthalate (DBP)	84-74-2	ND	0.003
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.003
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.003
Di-“isononyl” phthalate (DINP)	28553-12-0 68515-48-0	ND	0.010
Di-“isodecyl” phthalate (DIDP)	26761-40-0 68515-49-1	ND	0.010
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	0.003

Specimen Description:

1. Powder brown soft plastic w/ multi-color coating (113389) + Dull black soft plastic w/ multi-color coating (112589) + Dull black soft plastic w/ multi-color coating (112989)
2. Dull black soft plastic w/ multi-color coating (100302) + Dull black soft plastic w/ multi-color coating (111589) + White soft plastic w/ multi-color coating (113089)
3. White soft plastic w/ multi-color coating (100034) + White soft plastic w/multi-color coating (111489) + Lt brown soft plastic w/ multi-color coating (100274)
4. Beige soft plastic w/ multi-color coating (113289) + Coffee soft plastic w/ multi-color coating (111289) + Coffee soft plastic w/ multi-color coating (111389)
5. Flesh soft plastic w// multi-color coating (111289) + Transparent soft plastic w/ multi-color coating (111289)
6. Lt taupe soft plastic w/ multi-color coating (111989) + Milky soft plastic w/ multi-color coating (113589)

- Note:
- % = percentage by weight
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - 1% = 10000 mg/kg = 10000 ppm
  - Composite test has been performed as per client’s request and the results are calculated using the total specimen weight

**Summary of Permissible Limit of Requirement(s) otherwise warning label required:**

Requirement(s)	Permissible Limit
California Proposition 65 (ACSC Case No. BG07350969)	
- Toys for children under 6 or childcare articles for children under 3	≤ 0.1% for each of DBP, BBP, DEHP, DIDP, DnHP and DINP

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## US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) (formerly drafted by CONEG) – Total Lead, Cadmium, Mercury and Hexavalent Chromium content

Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC62321-7-1:2015

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Ultraviolet Visible Spectrophotometer (UV-Vis)

Test Item(s)	Pb	Cd	Hg	Cr(VI)	Total (Pb + Cd + Cr(VI)+ Hg)
MDL (mg/kg)	5	5	5	8	--
Permissible Limit (mg/kg)	--	--	--	--	100
Specimen No.	--	--	--	--	--
1 – 4	ND	ND	ND	ND#	ND

### Specimen Description:

- White paper w/ multi color dots coating (113389, 112589, 112989, 100302, 113089, 100274, 100034, 111289, 113289, 111389, 111589, 111989, 113589, 111489) + White paper w/ multi color dots coating w/milky paper backing (111289)
- Transparent soft plastic (113389, 112589, 112989, 100302, 113089, 100274, 100034, 111289, 113289, 111389, 111589, 111989, 113589, 111489) + Transparent soft plastic w/ black, white printing (113389, 112589, 112989, 100302, 113089, 100274, 100034, 113289, 111389, 111589, 111989, 113589, 111489)
- Semi transparent soft plastic (111289) + Translucent plastic (111289, 113289)
- Silvery metal (111289)

- Note:
- mg/kg = milligram per kilogram
  - 1% = 10000 mg/kg = 10000 ppm
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - The TPCH legislation has been enacted by California, Connecticut, Florida, Georgia, Illinois, Iowa, Maine, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Wisconsin.
  - # = The result of Hexavalent chromium (Cr(VI)) is considered as "Not Detected" since the total chromium content determined by acid digestion is "Not Detected".
  - Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight

## **TOYS REGULATIONS (SOR/2011-17) AMENDED UP TO JANUARY 11, 2019 OF CANADA CONSUMER PRODUCT SAFETY ACT.**

AS SPECIFIED IN TOYS REGULATIONS (SOR/2011-17) AMENDED UP TO JANUARY 11, 2019 OF CANADA CONSUMER PRODUCT SAFETY ACT.

Clauses relevant to the item:

Section	Description	Result
Section 7	Small Objects	Pass
Section 10	Plastic Components	Pass
Section 21	Celluloid or Cellulose Nitrate	Pass
Section 23	Heavy Metals Contents in Surface Coatings/Paint	Pass

(See Result Page)

### RESULT PAGE:

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## **Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations (SOR/2011-17) (Including amendments SOR/2012-71, SOR/2016-195, SOR/2016-302, SOR/2018-138 and SOR/2022-122) - Section 23 (a) and Section 23 (c) - Lead and Mercury in surface coating material**

Method: With reference to Canada Health Product Safety Bureau, Reference Manual Book 5 – Laboratory Policies and Procedures, Part B: Test Methods Section, Method C02.2.2:2020 / C07:2019  
Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item(s)	Pb	Hg
<b>Permissible Limit (mg/kg)</b>	<b>90</b>	<b>10</b>
<b>Specimen Description</b>	<b>Result(s) (mg/kg)</b>	
1. Multi-color coating (113389)	ND	ND
2. Multi-color coating (112589)	ND	ND
3. Multi-color coating (112989)	ND	ND
4. Multi-color coating (100302)	ND	ND
5. Multi-color coating (113089)	ND	ND
6. Multi-color coating (100274)	ND	ND
7. Multi-color coating (100034)	ND	ND
8. Multi-color coating (111289)	ND	ND
9. Multi-color coating (113289)	ND	ND
10. Multi-color coating (111389)	ND	ND
11. Multi-color coating (111589)	ND	ND
12. Multi-color coating (111989)	ND	ND
13. Multi-color coating (113589)	ND	ND
14. Multi-color coating (111489)	ND	ND

- Note:
- mg/kg = milligram per kilogram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 10 mg/kg
  - Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight

## **Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations (SOR/2011-17) (Including amendments SOR/2012-71, SOR/2016-195, SOR/2016-302, SOR/2018-138 and SOR/2022-122) - Section 23 (b) - Heavy metals in surface coating material**

Method: With reference to Canada Health Product Safety Bureau, Reference Manual Book 5 – Laboratory Policies and Procedures, Part B: Test Methods Section, Method C02.2.2:2020 / CPSC-CH-E1003-09.1 / ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

For Soluble Heavy Metal Content:

Test Item(s)	Sb	As	Ba	Cd	Se
<b>MDL (mg/kg)</b>	50	50	50	50	50
<b>Permissible Limit (mg/kg)</b>	1000	1000	1000	1000	1000
<b>Specimen Description</b>	<b>Soluble Result(s) (mg/kg)</b>				
1. Multi-color coating (113389)	ND	ND	ND	ND	ND
2. Multi-color coating (112589)	ND	ND	ND	ND	ND
3. Multi-color coating (112989)	ND	ND	ND	ND	ND
4. Multi-color coating (100302)	ND	ND	ND	ND	ND
5. Multi-color coating (113089)	ND	ND	ND	ND	ND
6. Multi-color coating (100274)	ND	ND	ND	ND	ND
7. Multi-color coating (100034)	ND	ND	ND	ND	ND
8. Multi-color coating (111289)	ND	ND	ND	ND	ND
9. Multi-color coating (113289)	ND	ND	ND	ND	ND

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Test Item(s)	Sb	As	Ba	Cd	Se
<b>MDL (mg/kg)</b>	50	50	50	50	50
<b>Permissible Limit (mg/kg)</b>	1000	1000	1000	1000	1000
Specimen Description	Soluble Result(s) (mg/kg)				
10. Multi-color coating (111389)	ND	ND	ND	ND	ND
11. Multi-color coating (111589)	ND	ND	ND	ND	ND
12. Multi-color coating (111989)	ND	ND	ND	ND	ND
13. Multi-color coating (113589)	ND	ND	ND	ND	ND
14. Multi-color coating (111489)	ND	ND	ND	ND	ND

- Note:
- mg/kg = milligram per kilogram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit

**Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing Lead Regulations, SOR/2018-83 – Total Lead content**

Method : With reference to Canada Health Product Safety Bureau, Reference Manual Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C02.2.2:2020 / C02.3.2:2021 / C02.4.1:2019 Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item(s)	Lead (Pb)
<b>MDL (mg/kg)</b>	10
<b>Permissible Limit (mg/kg)</b>	90
Specimen Description	Result(s) (mg/kg)
1. Powder brown soft plastic (113389) + Dull black soft plastic (112589, 112989, 100302, 111589) + White soft plastic (113089, 100034,111489)	ND
2. Lt brown soft plastic (100274) + Beige soft plastic (113289) + Coffee soft plastic (111289, 111389)	ND
3. Flesh soft plastic (111289) + Transparent soft plastic (111289)	ND
4. Lt taupe soft plastic (111989) + Milky soft plastic (113589)	ND
5. Multi-color coating (113389)	ND
6. Multi-color coating (112589)	ND
7. Multi-color coating (112989)	ND
8. Multi-color coating (100302)	ND
9. Multi-color coating (113089)	ND
10. Multi-color coating (100274)	ND
11. Multi-color coating (100034)	ND
12. Multi-color coating (111289)	ND
13. Multi-color coating (113289)	ND
14. Multi-color coating (111389)	ND
15. Multi-color coating (111589)	ND
16. Multi-color coating (111989)	ND
17. Multi-color coating (113589)	ND
18. Multi-color coating (111489)	ND

- Note:
- mg/kg = milligram per kilogram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - Composite test has been performed as per client’s request and the results are calculated using the minimum specimen weight

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**Canada Phthalates Regulation (SOR/2016-188)( formerly restricted under SOR/2010-298)**

Method: With reference to CPSC-CH-C1001-09.4 / Canada Health Product Safety Bureau, Reference Manual Book 5 – Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-34:2018 – Determination of Phthalates in Polyvinyl Chloride Consumer Products

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Vinyl Materials that can, in a reasonably foreseeable Manner, be placed in the Mouth of a Child under 4 Years of Age

Test Item(s)	CAS No.	Result (s) (%)	MDL (%)	Permissible Limit (%)
<b>Specimen No.</b>	--	<b>1 – 6</b>		
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	0.010	0.1
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	0.003	0.1
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	0.010	0.1

**Specimen Description:**

1. Powder brown soft plastic w/ multi-color coating (113389) + Dull black soft plastic w/ multi-color coating (112589) + Dull black soft plastic w/ multi-color coating (112989)
2. Dull black soft plastic w/ multi-color coating (100302) + Dull black soft plastic w/ multi-color coating (111589) + White soft plastic w/ multi-color coating (113089)
3. White soft plastic w/ multi-color coating (100034) + White soft plastic w/multi-color coating (111489) + Lt brown soft plastic w/ multi-color coating (100274)
4. Beige soft plastic w/ multi-color coating (113289) + Coffee soft plastic w/ multi-color coating (111289) + Coffee soft plastic w/ multi-color coating (111389)
5. Flesh soft plastic w// multi-color coating (111289) + Transparent soft plastic w/ multi-color coating (111289)
6. Lt taupe soft plastic w/ multi-color coating (111989) + Milky soft plastic w/ multi-color coating (113589)

Note:

- % = percentage by weight
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- 1% = 10000 mg/kg = 10000 ppm
- Composite test has been performed as per client's request and the results are calculated using the total specimen weight

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**AS/NZS ISO 8124.1:2019 +A1:2020 + A2:2020 – SAFETY OF TOYS – PART 1: SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES**

AS SPECIFIED IN AS/NZS ISO 8124.1:2019 + A1:2020 + A2:2020 – SAFETY OF TOYS – PART 1: SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	Normal use	<u>Pass</u>
4.2	Reasonably foreseeable abuse	<u>Pass</u>
4.3	Material	
	4.3.1 Material quality (Visual Examination)	<u>Pass</u>
4.4	Small parts	
	4.4.1 For children under 36 months	<u>Pass</u>
4.6	Edges	<u>Pass</u>
4.7	Points	<u>Pass</u>
<b>Annex B</b>	<b>Safety-labeling guidelines and manufacturer’s markings</b>	
<b>B.2</b>	Safety-labeling guidelines	
B.2.1	Good practice for visibility and legibility Remark: The standard has introduced good practice by addressing the following aspects: a) Emphasising the warning b) Contrast, background and colours c) Reflecting surfaces and obscuring material d) Font type e) Font and symbol size f) Logical direction of text	<u>See Remark</u>
B.2.2	Age grading	<u>Pass</u>
B.4	Manufacturer’s Markings	<u>Pass</u>

**AS/NZS 8124.2:2016 – SAFETY OF TOYS – PART 2: FLAMMABILITY**

AS SPECIFIED IN AS/NZS 8124.2:2016 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General Requirements	<u>Pass</u>

Type of gas: Butane gas used in the test burner

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**AS/NZS ISO 8124.3: 2021 – Safety of toys – Part 3 – Migration of Certain Elements**

Method: With reference to AS/NZS ISO 8124.3: 2021

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se
<b>MDL (mg/kg)</b>	5	5	2.5	10	5	5	5	10
<b>Permissible Limit (mg/kg) – Other than Modeling Clay and Finger Paint</b>	90	60	25	1000	75	60	60	500
Specimen No.	Mass of trace amount (mg)	Adjusted Soluble Result(s) (mg/kg)						
1 – 25	/	ND	ND	ND	ND	ND	ND	ND

**Specimen Description:**

1. Black coating (113389, 112589, 112989, 100302, 113089, 100274, 100034, 111289, 113289, 111389, 111589, 111989, 113589, 111489)
2. Dark grey coating (113389, 100302, 113089, 100274, 113289)
3. Lt brown coating (112989, 100302, 100274, 100034, 111289, 113589, 111489)
4. Pale brown coating (113089, 111289, 113289, 113589)
5. Grey coating (113089, 111989)
6. Chocolate brown coating (100274, 111589, 111489)
7. White coating (111289, 111389, 111589)
8. Turquoise coating (111289)
9. Dull yellow coating (111289)
10. Lt purple coating (111289)
11. Dull coral coating (111289)
12. Dull green coating (111289)
13. Neon green coating (113289)
14. Lt grey coating (111589)
15. Ivory coating (113589)
16. Powder brown soft plastic (113389)
17. Dull black soft plastic (112589, 112989, 100302, 111589)
18. White soft plastic (113089, 100034, 111489)
19. Lt brown soft plastic (100274)
20. Beige soft plastic (113289)
21. Coffee soft plastic (111289, 111389)
22. Flesh soft plastic (111289)
23. Transparent soft plastic (111289)
24. Lt taupe soft plastic (111989)
25. Milky soft plastic (113589)

- Note:
- mg/kg = milligram per kilogram
  - mg = milligram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit

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Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in AS/NZS ISO 8124.3: 2021, Clause 7 – Selection of Test Portions

- Khaki coating (113389, 270029, 100274)
- Dull pink coating (100034)
- Brown coating (100034, 111589, 113589)
- Brown -red coating (100034)
- Beige coating (111289, 111389, 113589)
- Shiny turquoise coating (111289)
- Golden coating (111289)
- Orangish brown coating (111289, 111289, 111389)
- Blue coating (111289)
- Green coating (111289)
- Pink coating (111289)
- Dull red coating (111289, 111289)
- Pale orange coating (111289)
- Shiny violet coating (111289)
- Pale pink coating (111289)
- Shiny brown coating (111289)
- Dull peach coating (111289)
- Dull purple coating (111289)
- Dull orange coating (111289)
- Dull pink coating (111289)
- Shiny green coating (113289)
- Shiny blue coating (113289)
- Lt violet coating (113289)
- Dk blue coating (113289)
- Orange coating (111389)
- Dull flesh coating (111389)
- Warm grey coating (100302, 111289, 111989)

**Test Requested** :

As requested by client, SVHC screening is performed according to:

- Two hundred and thirty-three (233) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 17, 2023 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Result(s) : Please refer to next page(s)..

Summary :

According to the specified scope and analytical techniques, concentrations of tested SVHC are ≤ 0.1% (w/w) in the submitted sample.	PASS
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**Remark :**

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
  - <https://echa.europa.eu/candidate-list-table>(Candidate list)

The lists are under evaluation by ECHA and may subject to change in the future.
2. In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).
3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.
4. Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.
  - <https://echa.europa.eu/scip>
5. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

**Test Sample:**

Sample Description: TOY FIGURINES

Group No.	Component No.	Component Description
A	1.	Powder brown soft plastic w/ multi- color coating (113389)
A	2.	Dull black soft plastic w/ multi- color coating (112589)
A	3.	Dull black soft plastic w/ multi- color coating (112989)
A	4.	Dull black soft plastic w/ multi- color coating (100302)
A	5.	Dull black soft plastic w/ multi- color coating (111589)
A	6.	White soft plastic w/ multi- color coating (113089)
A	7.	White soft plastic w/ multi- color coating (100034)
A	8.	White soft plastic w/multi- color coating (111489)
A	9.	Lt brown soft plastic w/ multi- color coating (100274)
A	10.	Beige soft plastic w/ multi- color coating (113289)
A	11.	Coffee soft plastic w/ multi- color coating (111289)
A	12.	Coffee soft plastic w/ multi- color coating (111389)
A	13.	Flesh soft plastic w// multi- color coating (111289)
A	14.	Transparent soft plastic w/ multi- color coating (111289)
A	15.	Lt taupe soft plastic w/ multi- color coating (111989)
A	16.	Milky soft plastic w/ multi- color coating (113589)

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**Test Method:**

SGS In-House method - Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD, HPLC-MS and colorimetric method

**Test Result (per test group) :**

No.	Substance Name	CAS No./ EC No.	RL (%)	Concentration (%)
				<u>A</u>
-	All tested SVHC	-	-	ND

Notes:

1. RL = Reporting Limit. All RL are based on homogenous material  
 ND = Not detected (lower than RL), ND is denoted on the SVHC substance.  
 NA^ = The submitted sample was found to contain significant amount of specific element(s) of SVHC. Upon further test verification and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.

2. \* The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario.

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.01% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.001%, boron RL=0.005% (only for Lead bis(tetrafluoroborate)), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide).

3. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
4. Test result that shown as per test group is the actual concentration from laboratory testing. The test result is calculated by minimum sample weight. Confirmation testing is recommended as to understand the exact content of SVHC in each individual component.

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**Appendix**

No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Oct 28, 2008							
1	4,4'-Diaminodiphenylmethane (MDA)	101-77-9/ 202-974-4	0.100	2	5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)	81-15-2/ 201-329-4	0.100
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8/ 287-476-5	0.100	4	Anthracene	120-12-7/ 204-371-1	0.100
5	Benzyl butyl phthalate (BBP)	85-68-7/ 201-622-7	0.100	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7/ 204-211-0	0.100
7	Bis(tributyltin)oxide (TBTO)	56-35-9/ 200-268-0	0.100	8	Cobalt dichloride*	7646-79-9/ 231-589-4	0.010
9	Diarsenic pentaoxide*	1303-28-2/ 215-116-9	0.010	10	Diarsenic trioxide*	1327-53-3/ 215-481-4	0.010
11	Dibutyl phthalate (DBP)	84-74-2/ 201-557-4	0.100	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4/ 247-148-4; 3194-55-6/ 221-695-9; (134237-50-6/-; 134237-51-7/-; 134237-52-8/-)	0.100
13	Lead hydrogen arsenate*	7784-40-9/ 232-064-2	0.010	14	Sodium dichromate*	7789-12-0/ 10588-01-9/ 234-190-3	0.010
15	Triethyl arsenate*	15606-95-8/ 427-700-2	0.010				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 13, 2010							
16	2,4-Dinitrotoluene	121-14-2/ 204-450-0	0.100	17	Anthracene oil*	90640-80-5/ 292-602-7	0.100
18	Anthracene oil, anthracene paste*	90640-81-6/ 292-603-2	0.100	19	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2/ 295-275-9	0.100
20	Anthracene oil, anthracene paste; distn. Lights*	91995-17-4/ 295-278-5	0.100	21	Anthracene oil, anthracene-low*	90640-82-7/ 292-604-8	0.100
22	Diisobutyl phthalate	84-69-5/ 201-553-2	0.100	23	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8/ 235-759-9	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
24	Lead chromate*	7758-97-6/ 231-846-0	0.010	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2/ 215-693-7	0.010
26	Pitch, coal tar, high temp.*	65996-93-2/ 266-028-2	0.100	27	Tris(2- chloroethyl)phosphate	115-96-8/ 204-118-5	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Mar 30, 2010							
28	Acrylamide	79-06-1/ 201-173-7	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2010							
29	Ammonium dichromate*	7789-09-5/ 232-143-1	0.010	30	Boric acid*	10043-35-3/ 233-139-2; 11113-50-1/ 234-343-4	0.010
31	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3/ 215-540-4	0.010	32	Potassium chromate*	7789-00-6/ 232-140-5	0.010
33	Potassium dichromate*	7778-50-9/ 231-906-6	0.010	34	Sodium chromate*	7775-11-3/ 231-889-5	0.010
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1/ 235-541-3	0.010	36	Trichloroethylene	79-01-6/ 201-167-4	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 15, 2010							
37	2-Ethoxyethanol	110-80-5/ 203-804-1	0.100	38	2-Methoxyethanol	109-86-4/ 203-713-7	0.100
39	Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid*	7738-94-5/ 231-801-5; 13530-68-2/ 236-881-5	0.010	40	Chromium trioxide*	1333-82-0/ 215-607-8	0.010
41	Cobalt(II) carbonate*	513-79-1/ 208-169-4	0.010	42	Cobalt(II) diacetate*	71-48-7/ 200-755-8	0.010
43	Cobalt(II) dinitrate*	10141-05-6/ 233-402-1	0.010	44	Cobalt(II) sulphate*	10124-43-3/ 233-334-2	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2011							
45	1,2,3-Trichloropropane	96-18-4/ 202-486-1	0.100	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6/ 276-158-1	0.100
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4/ 271-084-6	0.100	48	1-Methyl-2-pyrrolidone	872-50-4/ 212-828-1	0.100

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
49	2-Ethoxyethyl acetate	111-15-9/ 203-839-2	0.100	50	Hydrazine	7803-57-8 302-01-2/ 206-114-9	0.100
51	Strontium chromate*	7789-06-2/ 232-142-6	0.010				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2011							
52	1,2-Dichloroethane	107-06-2/ 203-458-1	0.100	53	2,2'-dichloro-4,4'- methylenedianiline (MOCA)	101-14-4/ 202-918-9	0.100
54	2-Methoxyaniline	90-04-0/ 201-963-1	0.100	55	4-tert-Octylphenol	140-66-9/ 205-426-2	0.100
56	Aluminosilicate Refractory Ceramic Fibres*	650-017-00- 8 (Index no.)	0.010	57	Arsenic acid*	7778-39-4/ 231-901-9	0.010
58	Bis(2-methoxyethyl) ether	111-96-6/ 203-924-4	0.100	59	Bis(2-methoxyethyl) phthalate	117-82-8/ 204-212-6	0.100
60	Calcium arsenate*	7778-44-1/ 231-904-5	0.010	61	Dichromium tris(chromate)*	24613-89-6/ 246-356-2	0.010
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4/ 500-036-1	0.100	63	Lead diazide*	13424-46-9/ 236-542-1	0.010
64	Lead dipicrate*	6477-64-1/ 229-335-2	0.010	65	Lead styphnate*	15245-44-0/ 239-290-0	0.010
66	N,N-dimethylacetamide (DMAC)	127-19-5/ 204-826-4	0.100	67	Pentazinc chromate octahydroxide*	49663-84-5/ 256-418-0	0.010
68	Phenolphthalein	77-09-8/ 201-004-7	0.100	69	Potassium hydroxyoctaoxodizincatedic hromate*	11103-86-9/ 234-329-8	0.010
70	Trilead diarsenate*	3687-31-8/ 222-979-5	0.010	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2012							
72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]meth ylene]cyclohexa-2,5-dien-1- ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5/ 219-943-6	0.100	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa- 2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9/ 208-953-6	0.100
74	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2/ 203-977-3	0.100	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4/ 203-794-9	0.100
76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8/ 202-027-5	0.100	77	4,4'-bis(dimethylamino)-4'- (methylamino)trityl alcohol	561-41-1/ 209-218-2	0.100
78	Diboron trioxide*	1303-86-2/ 215-125-8	0.010	79	Formamide	75-12-7/ 200-842-0	0.100

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
80	Lead(II) bis(methanesulfonate)*	17570-76-2/ 401-750-5	0.010	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1/ 202-959-2	0.100
82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9/ 219-514-3	0.100	83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0/ 229-851-8	0.100
84	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6/ 423-400-0	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2012							
85	[Phthalato(2-)]dioxotrilead*	69011-06-9/ 273-688-5	0.010	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0/ 284-032-2	0.100
87	1,2-Diethoxyethane	629-14-1/ 211-076-1	0.100	88	1-Bromopropane	106-94-5/ 203-445-0	0.100
89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2/ 421-150-7	0.100	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.100
91	4,4'-Methylenedi- <i>o</i> -toluidine	838-88-0/ 212-658-8	0.100	92	4,4'-Oxydianiline	101-80-4/ 202-977-0	0.100
93	4-Aminoazobenzene	60-09-3/ 200-453-6	0.100	94	4-Methyl- <i>m</i> -phenylenediamine	95-80-7/ 202-453-1	0.100
95	4-Nonylphenol, branched and linear	-	0.100	96	6-Methoxy- <i>m</i> -toluidine	120-71-8/ 204-419-1	0.100
97	Acetic acid, lead salt, basic*	51404-69-4/ 257-175-3	0.010	98	Biphenyl-4-ylamine	92-67-1/ 202-177-1	0.100
99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5/ 214-604-9	0.100	100	C,C'-azodi(formamide) (ADCA)	123-77-3/ 204-650-8	0.100
101	Dibutyltin dichloride (DBT)	683-18-1/ 211-670-0	0.100	102	Diethyl sulphate	64-67-5/ 200-589-6	0.100
103	Diisopentylphthalate (DIPP)	605-50-5/ 210-088-4	0.100	104	Dimethyl sulphate	77-78-1/ 201-058-1	0.100
105	Dinoseb	88-85-7/ 201-861-7	0.100	106	Dioxobis(stearato)trilead*	12578-12-0/ 235-702-8	0.010
107	Fatty acids, C16-18, lead salts*	91031-62-8/ 292-966-7	0.010	108	Furan	110-00-9/ 203-727-3	0.100
109	Henicosafuoroundecanoic acid	2058-94-8/ 218-165-4	0.100	110	Heptacosafuorotetradecanoic acid	376-06-7/ 206-803-4	0.100

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
111	Hexahydro-2-benzofuran-1,3-dione, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7/ 201-604-9; 13149-00-3/ 236-086-3; 14166-21-3/ 238-009-9	0.100	11 2	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0/ 247-094-1; 19438-60-9/ 243-072-0; 48122-14-1/ 256-356-4; 57110-29-9/ 260-566-1	0.100
113	Lead bis(tetrafluoroborate)*	13814-96-5/ 237-486-0	0.010	11 4	Lead cyanamidate*	20837-86-9/ 244-073-9	0.010
115	Lead dinitrate*	10099-74-8/ 233-245-9	0.010	11 6	Lead monoxide*	1317-36-8/ 215-267-0	0.010
117	Lead oxide sulphate*	12036-76-9/ 234-853-7	0.010	11 8	Lead tetroxide*	1314-41-6/ 215-235-6	0.010
119	Lead titanium zirconium oxide*	12060-00-3/ 235-038-9	0.010	12 0	Lead titanium zirconium oxide*	12626-81-2/ 235-727-4	0.010
121	Methoxyacetic acid	625-45-6/ 210-894-6	0.100	12 2	N,N-Dimethylformamide	68-12-2/ 200-679-5	0.100
123	N-Methylacetamide	79-16-3/ 201-182-6	0.100	12 4	N-Pentyl-isopentylphthalate	776297-69-9 /-	0.100
125	o-Aminoazotoluene	97-56-3/ 202-591-2	0.100	12 6	o-Toluidine	95-53-4/ 202-429-0	0.100
127	Pentacosafuorotridecanoic acid	72629-94-8/ 276-745-2	0.100	12 8	Pentalead tetraoxide sulphate*	12065-90-6/ 235-067-7	0.010
129	Propylene oxide	75-56-9/ 200-879-2	0.100	13 0	Pyrochlore, antimony lead yellow*	8012-00-8/ 232-382-1	0.010
131	Silicic acid, barium salt, lead-doped*	68784-75-8/ 272-271-5	0.010	13 2	Silicic acid, lead salt*	11120-22-2/ 234-363-3	0.010
133	Sulfurous acid, lead salt, dibasic*	62229-08-7/ 263-467-1	0.010	13 4	Tetraethyllead*	78-00-2/ 201-075-4	0.010
135	Tetralead trioxide sulphate*	12202-17-4/ 235-380-9	0.010	13 6	Tricosafuorododecanoic acid	307-55-1/ 206-203-2	0.100
137	Trilead bis(carbonate)dihydroxide*	1319-46-6/ 215-290-6	0.010	13 8	Trilead dioxide phosphonate*	12141-20-7/ 235-252-2	0.010
<b>Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2013</b>							
139	4-Nonylphenol, branched and linear, ethoxylated	-	0.100	14 0	Ammoniumpentadecafluoro octanoate (APFO)	3825-26-1/ 223-320-4	0.100
141	Cadmium	7440-43-9/ 231-152-8	0.010	14 2	Cadmium oxide*	1306-19-0/ 215-146-2	0.010
143	Di-n-pentyl phthalate	131-18-0/ 205-017-9	0.100	14 4	Pentadecafluorooctanoic acid (PFOA)	335-67-1/ 206-397-9	0.100
<b>Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013</b>							

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
145	Cadmium sulphide*	1306-23-6/ 215-147-8	0.010	14 6	Dihexyl phthalate	84-75-3/ 201-559-5	0.100
147	Disodium 3,3'-[[1,1'- biphenyl]-4,4'- diylbis(azo)]bis(4- aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	573-58-0/ 209-358-4	0.100	14 8	Disodium 4-amino-3-[[4'- [(2,4- diaminophenyl)azo][1,1'- biphenyl]-4-yl]azo] -5- hydroxy-6- (phenylazo)naphthalene- 2,7-disulphonate (C.I. Direct Black 38)	1937-37-7/ 217-710-3	0.100
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7/ 202-506-9	0.100	15 0	Lead di(acetate)*	301-04-2/ 206-104-4	0.010
151	Trixylyl phosphate	25155-23-1/ 246-677-8	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 16, 2014							
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50- 4/ 271-093-5	0.100	15 3	Cadmium chloride*	10108-64-2/ 233-296-7	0.010
154	Sodium perborate; perboric acid, sodium salt*	- / 234-390- 0; 239-172-9	0.010	15 5	Sodium peroxometaborate*	7632-04-4/ 231-556-4	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2014							
156	2-benzotriazol-2-yl-4,6-di- tert-butylphenol (UV-320)	3846-71-7 / 223-346-6	0.100	15 7	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1 / 247-384-8	0.100
158	2-ethylhexyl 10-ethyl-4,4- dioctyl-7-oxo-8-oxa-3,5- dithia-4- stannatetradecanoate; DOTE	15571-58-1 / 239-622-4	0.100	15 9	Reaction mass of 2- ethylhexyl 10-ethyl-4,4- dioctyl-7-oxo-8-oxa-3,5- dithia-4- stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2- oxoethyl]thio]-4-octyl-7-oxo- 8-oxa-3,5-dithia-4- stannatetradecanoate (reaction mass of DOTE and MOTE)	-	0.100
160	Cadmium fluoride*	7790-79-6 / 232-222-0	0.010	16 1	Cadmium sulphate*	10124-36-4; 31119-53-6 / 233-331-6	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 15, 2015							
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic	68515-51-5; 68648-93-1/	0.100	16 3	5-sec-butyl-2-(2,4-dimethyl cyclohex-3-en-1-yl)-5- methyl-1,3-dioxane [1], 5-	-	0.100

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
	acid, mixed decyl and hexyl and octyl diesters with $\geq$ 0.3% of dihexyl phthalate (EC No. 201-559-5)	271-094-0; 272-013-1			sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]		
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2015,							
164	1,3-propanesultone	1120-71-4 / 214-317-9	0.100	16 5	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1 / 223-383-8	0.100
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3 / 253-037-1	0.100	16 7	Nitrobenzene	98-95-3 / 202- 716-0	0.100
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4 / 206-801-3	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2016							
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8 / 200-028-5	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 12, 2017							
170	4,4'-Isopropylidenediphenol (Bisphenol A)	80-05-7 / 201-245-8	0.100	17 1	4-Heptylphenol, branched and linear	-	0.100
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salt	335-76-2; 3830-45-3; 3108-42-7/ 206-400-3; - ; 221-470-5	0.100	17 3	p-(1,1-dimethylpropyl)phenol	80-46-6 / 201- 280-9	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 7, 2017							
174	Perfluorohexane-1-sulphonic acid and its salts	-	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on January 15, 2018							
175	Benz[a]anthracene	56-55-3; 1718-53-2/ 200-280-6	0.100	17 6	Cadmium carbonate*	513-78-0/ 208-168-9	0.010
177	Cadmium hydroxide*	21041-95-2/ 244-168-5	0.010	17 8	Cadmium nitrate*	10325-94-7/ 233-710-6	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
179	Chrysene	218-01-9; 1719-03-5/ 205-923-4	0.100	180	Dodecachloropentacyclo[12.2.1.1 <sup>6,9</sup> .0 <sup>2,13</sup> .0 <sup>5,10</sup> ]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.100
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 27, 2018							
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (TMA)	552-30-7 / 209-008-0	0.100	183	Benzo[ghi]perylene	191-24-2 / 205-883-8	0.100
184	Decamethylcyclopentasiloxane (D5)	541-02-6 / 208-764-9	0.100	185	Dicyclohexyl phthalate (DCHP)	84-61-7 / 201-545-9	0.100
186	Disodium octaborate*	12008-41-2 / 234-541-0	0.010	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6 / 208-762-8	0.100
188	Ethylenediamine (EDA)	107-15-3 / 203-468-6	0.100	189	Lead	7439-92-1 / 231-100-4	0.010
190	Octamethylcyclotetrasiloxane (D4)	556-67-2 / 209-136-7	0.100	191	Terphenyl, hydrogenated	61788-32-7 / 262-967-7	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 15, 2019							
192	2,2-Bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6 / 401-720-1	0.100	193	Benzo[k]fluoranthene	207-08-9 / 205-916-6	0.100
194	Fluoranthene	206-44-0 / 205-912-4	0.100	195	Phenanthrene	85-01-8 / 201-581-5	0.100
196	Pyrene	129-00-0 / 204-927-3	0.100	197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8 / 239-139-9	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 16, 2019							
198	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides [covering any of their individual isomers and combinations thereof]	-	0.100	199	2-Methoxyethyl acetate	110-49-6 / 203-772-9	0.100
200	Tris(4-nonylphenyl, branched and linear)	-	0.100	201	4-tert-butylphenol	98-54-4 / 202-679-0	0.100

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
	phosphite (TNPP) with $\geq$ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)						
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 16, 2020							
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1 / 404-360-3	0.100	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5 / 400-600-6	0.100
204	Diisohexyl phthalate	71850-09-4 / 276-090-2	0.100	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 25, 2020							
206	1-Vinylimidazole	1072-63-5 / 214-012-0	0.100	207	2-Methylimidazole	693-98-1 / 211-765-7	0.100
208	Butyl 4-hydroxybenzoate	94-26-8 / 202-318-7	0.100	209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4 / 245-152-0	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 19, 2021							
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8 / 205-594-7	0.100	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 8, 2021							
212	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-	0.100	213	Orthoboric acid, sodium salt*	13840-56-7 / 237-560-2	0.010
214	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0; 36483-57-5; 1522-92-5; 96-13-9 / 221-967-7; 253-057-0; -; 202-480-9	0.100	215	Glutaral	111-30-8 / 203-856-5	0.100
216	Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17)	-	0.100	217	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	-	0.100

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
218	1,4-dioxane	123-91-1 / 201-025-1	0.100	21 9	4,4'-(1-methylpropylidene) bisphenol	77-40-7 / 201-025-1	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 17, 2022							
220	6,6'-di-tert-butyl-2,2'- methylenedi-p-cresol	119-47-1 / 204-327-1	0.010	22 1	tris(2- methoxyethoxy)vinylsilane	1067-53-4 / 213-934-0	0.010
222	(±)-1,7,7-trimethyl-3-[(4- methylphenyl)methylene]bic yclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4- MBC)	-	0.010	22 3	S-(tricyclo(5.2.1.0 <sub>2,6</sub> )deca- 3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2- ethylhexyl) phosphorodithioate	255881-94-8 / 401-850-9	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 10, 2022							
224	N- (hydroxymethyl)acrylamide	924-42-5/ 213-103-2	0.010	-	-	-	-
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 17, 2023							
225	1,1'-[ethane-1,2- diylbis(oxy)]bis[2,4,6- tribromobenzene]	37853-59-1 / 253-692-3	0.100	22 6	2,2',6,6'-tetrabromo-4,4'- isopropylidenediphenol	79-94-7 / 201- 236-9	0.100
227	4,4'-sulphonyldiphenol	80-09-1 / 201-250-5	0.100	22 8	Barium diboron tetraoxide	13701-59-2 / 237-222-4	0.010
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.100	23 0	Isobutyl 4-hydroxybenzoate	4247-02-3 / 224-208-8	0.100
231	Melamine	108-78-1 / 203-615-4	0.100	23 2	Perfluoroheptanoic acid and its salts	-	0.100
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4- (1,1,1,2,3,3,3- heptafluoropropan-2- yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4- (heptafluoropropyl)morpholin e	- / 473-390- 7	0.100				

**Notes**

1. RL = Reporting Limit. All RL are based on homogenous material
2. \* The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario.  
The client is advised to review the chemical formulation to ascertain above metal substances present in the article.  
RL = 0.01% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum  
RL=0.001%, boron RL=0.005% (only for Lead bis(tetrafluoroborate)), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide).

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**CPSC 16 CFR 1303 - Lead in Paint/Similar Surface Coating Materials**

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)	Lead (Pb)
<b>Permissible Limit (ppm)</b>	90
<b>Specimen Description</b>	<b>Result(s) (ppm)</b>
1. Multi-color coating (113389)	ND
2. Multi-color coating (112589)	ND
3. Multi-color coating (112989)	ND
4. Multi-color coating (100302)	ND
5. Multi-color coating (113089)	ND
6. Multi-color coating (100274)	ND
7. Multi-color coating (100034)	ND
8. Multi-color coating (111289)	ND
9. Multi-color coating (113289)	ND
10. Multi-color coating (111389)	ND
11. Multi-color coating (111589)	ND
12. Multi-color coating (111989)	ND
13. Multi-color coating (113589)	ND
14. Multi-color coating (111489)	ND

- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 10 ppm
  - 1% = 10000 mg/kg = 10000 ppm
  - The result(s) is (are) calculated using the minimum specimen weight for composite test.

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**REMARK:**

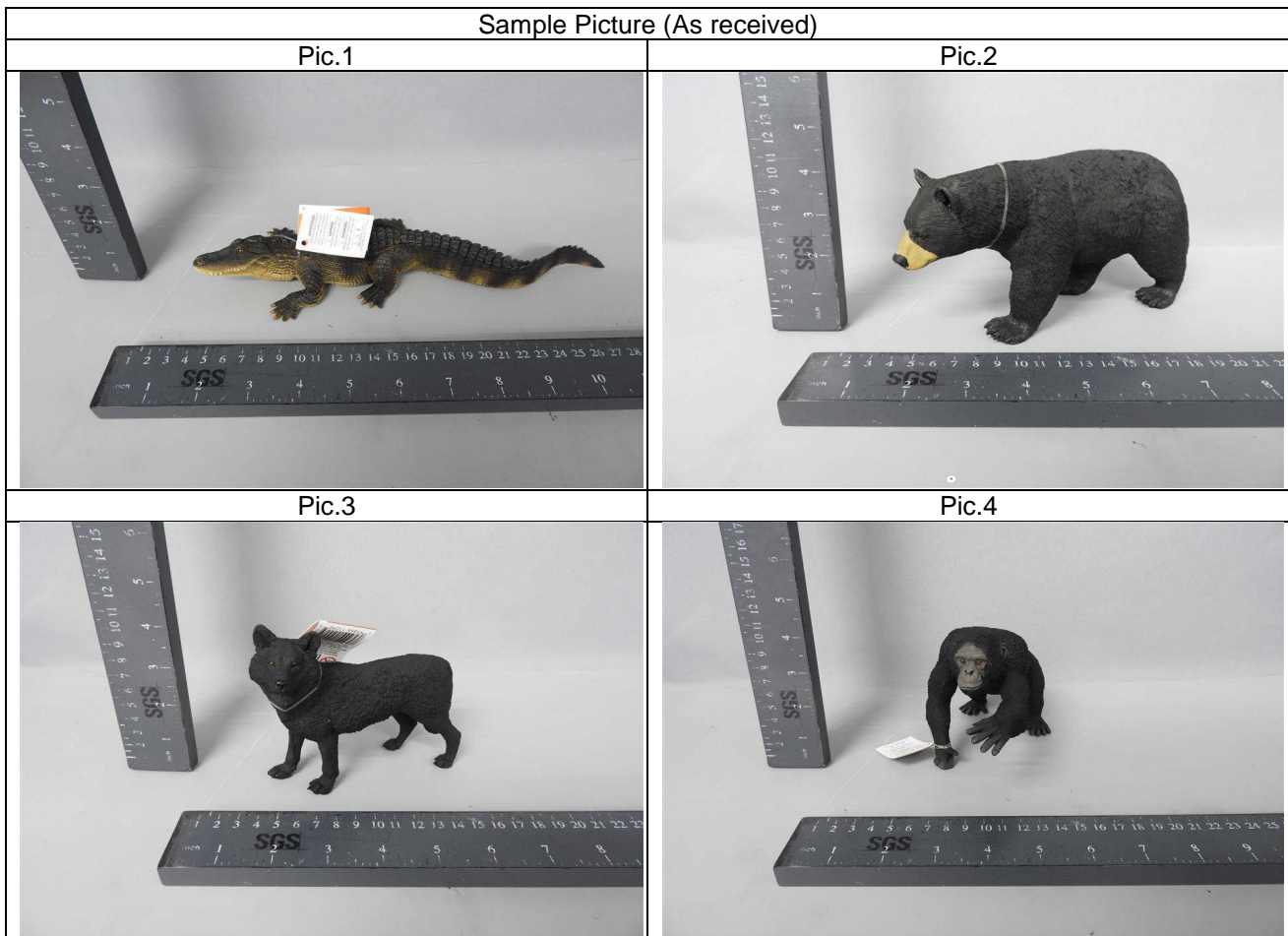
When statement of conformity is made, unless inherent in the requested specification, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability,  $w = U_{95}$ ) in ILAC-G8:09/2019 Clause 4.2.3.

“Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band.” or “Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.”

“Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band.” or “Fail - One or more measured values were observed out of tolerance at the points tested”. The specific false reject risk is up to 2.5%.

“Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%.”

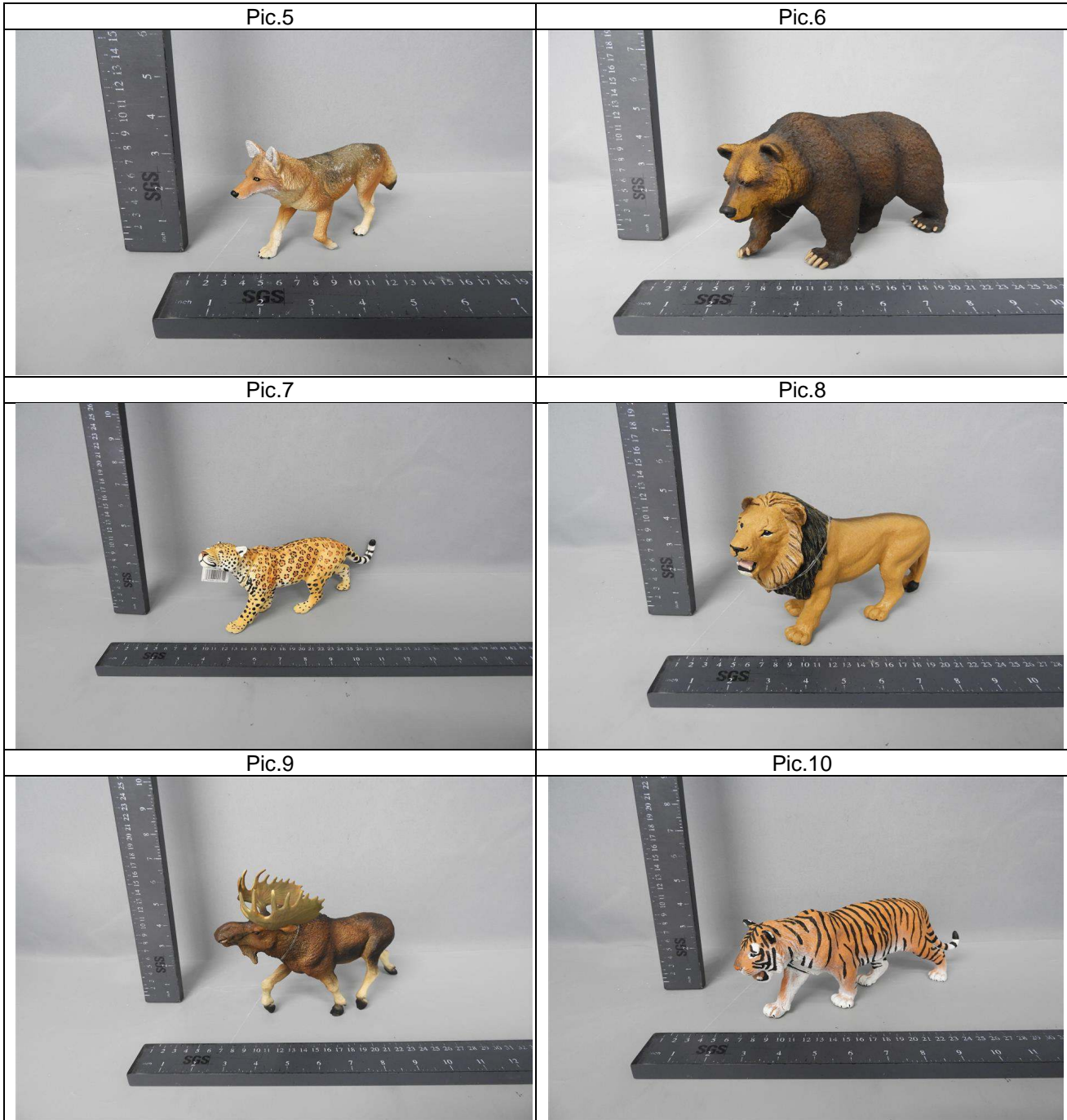
**Sample Photo:**



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SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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