



Test Report

No.T32320270434TY

Date: Jul 11, 2023

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SAFARI LTD
8010 WESTSIDE INDUSTRIAL DRIVE, JACKSONVILLE, FLORIDA 32219, USA

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

Collection	Item #	Item Name	CORRESPONDING ITEM #
GOOD LUCK MINIS	100586	GOOD LUCK MINIS - ASSORTED	See Attachment

SGS Case No. : CA323202624179
Country of Origin : CHINA
Country of Destination : USA, EU, CANADA, AUSTRALIA
Labeled Age Grading : 3+
Requested Age Grading : NOT STATED
Age Group Assessed As Per Age Guideline : 3 YEARS+
Age Group Applied in Testing : 3 YEARS+
Sample Receiving Date : MAR 20, 2023
Testing Period : MAR 20, 2023 – MAY 16, 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
Article 11 of European Directive 94/62/EC and its amendments – Total Lead, Cadmium, Mercury and Hexavalent Chromium Content	PASS
Commission Directive (EU) 2017/898 amending Appendix C of Annex II to European Directive 2009/48/EC – Migration BPA	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

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Test Requested	Conclusion
CPSIA - Lead in Accessible Substrate Materials	PASS
US 16 CFR Part 1307 – 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
US California Proposition 65 – Total Lead Content	PASS
California Prop 65 - Phthalates 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
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.	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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ATTACHMENT

Collection	Item #	Item Name
GOOD LUCK MINIS	351222	Cheetahs
GOOD LUCK MINIS	351622	Woolly Mammoths
GOOD LUCK MINIS	351122	Zebras
GOOD LUCK MINIS	352622	Kiwis
GOOD LUCK MINIS	351822	Buddha Laughing
GOOD LUCK MINIS	352822	Barn Owls
GOOD LUCK MINIS	352922	Blue Sharks
GOOD LUCK MINIS	353022	Camels
GOOD LUCK MINIS	353422	Eiffel Towers
GOOD LUCK MINIS	353622	Goats
GOOD LUCK MINIS	353922	Raptors
GOOD LUCK MINIS	354122	Sea Dragons
GOOD LUCK MINIS	354222	Snowy Owls
GOOD LUCK MINIS	354422	Waving Cats
GOOD LUCK MINIS	100033	White House
GOOD LUCK MINIS	100035	Foxes
GOOD LUCK MINIS	100036	Cupid
GOOD LUCK MINIS	100038	Teddy Bears
GOOD LUCK MINIS	100124	Toucans
GOOD LUCK MINIS	100168	Squids
GOOD LUCK MINIS	100169	Gnomes
GOOD LUCK MINIS	100170	Hammerhead Sharks
GOOD LUCK MINIS	100171	Horses
GOOD LUCK MINIS	100172	Spiders
GOOD LUCK MINIS	100173	Tortoises
GOOD LUCK MINIS	100229	Hummingbirds
GOOD LUCK MINIS	100230	Moray Eels
GOOD LUCK MINIS	100231	Blue Tangs
GOOD LUCK MINIS	100244	Jellyfish
GOOD LUCK MINIS	340022	Pigs
GOOD LUCK MINIS	340122	Ladybugs
GOOD LUCK MINIS	340222	Elephants
GOOD LUCK MINIS	340422	Emperor Penguins
GOOD LUCK MINIS	340522	Butterflies
GOOD LUCK MINIS	340622	Dolphins

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Collection	Item #	Item Name
GOOD LUCK MINIS	340822	Tyrannosaurus Rex
GOOD LUCK MINIS	341022	Killer Whales
GOOD LUCK MINIS	341122	Alligators
GOOD LUCK MINIS	341222	Frogs
GOOD LUCK MINIS	341322	Emperor Penguin Chicks
GOOD LUCK MINIS	341422	Clownfish
GOOD LUCK MINIS	341522	Sea Turtle Hatchlings
GOOD LUCK MINIS	341622	Wolf Cubs
GOOD LUCK MINIS	341722	Polar Bears
GOOD LUCK MINIS	341822	Bison
GOOD LUCK MINIS	342022	Babies
GOOD LUCK MINIS	342222	Bumble Bees
GOOD LUCK MINIS	342522	Pufferfish
GOOD LUCK MINIS	342622	Giraffes
GOOD LUCK MINIS	342722	Pandas
GOOD LUCK MINIS	342822	Hermit Crabs
GOOD LUCK MINIS	342922	Lions
GOOD LUCK MINIS	343022	Hippos
GOOD LUCK MINIS	343122	Rhinos
GOOD LUCK MINIS	343322	Gorillas
GOOD LUCK MINIS	343422	Black Bears
GOOD LUCK MINIS	343622	Holstein Cows
GOOD LUCK MINIS	343722	Koalas With Babies
GOOD LUCK MINIS	343822	Meerkats
GOOD LUCK MINIS	343922	Siberian Tigers
GOOD LUCK MINIS	344022	Kangaroos With Babies
GOOD LUCK MINIS	344322	Great White Sharks
GOOD LUCK MINIS	344422	Starfish
GOOD LUCK MINIS	344822	Flamingos
GOOD LUCK MINIS	345022	Seahorses
GOOD LUCK MINIS	345122	Poison Dart Frogs
GOOD LUCK MINIS	345222	Cownose Rays
GOOD LUCK MINIS	345322	Sea Turtles
GOOD LUCK MINIS	345422	Rabbits
GOOD LUCK MINIS	345522	Brachiosaurus & Stegosaurus
GOOD LUCK MINIS	346122	Bald Eagles

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Collection	Item #	Item Name
GOOD LUCK MINIS	347622	Roosters
GOOD LUCK MINIS	347722	Sows
GOOD LUCK MINIS	348222	Moose
GOOD LUCK MINIS	348422	Unicorns
GOOD LUCK MINIS	348622	Pegasus
GOOD LUCK MINIS	348722	Ice Dragons
GOOD LUCK MINIS	349122	Golden Retrievers
GOOD LUCK MINIS	349222	Duckies
GOOD LUCK MINIS	349322	Cardinals
GOOD LUCK MINIS	349622	Kittens
GOOD LUCK MINIS	349722	Chimps
GOOD LUCK MINIS	350222	Orangutans
GOOD LUCK MINIS	350822	Humpback Whales
GOOD LUCK MINIS	350922	Octopus
GOOD LUCK MINIS	100226	BEAVERS
GOOD LUCK MINIS	100312	CHAMELEONS
GOOD LUCK MINIS	100313	FENNEC FOXES
GOOD LUCK MINIS	100315	SLOTHS
GOOD LUCK MINIS	100316	GIANT SQUIDS
GOOD LUCK MINIS	100322	RED PANDAS
GOOD LUCK MINIS	100324	LLAMAS
GOOD LUCK MINIS	100513	Day Geckos (2 color pack)
GOOD LUCK MINIS	100404	Hedgehogs
GOOD LUCK MINIS	100744	Bigfoot
GOOD LUCK MINIS	100746	Komodo Dragons

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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>
6	Packaging	<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	
7.2	Toys not intended for children under 36 months (Remark: The toy contains small part. It is acceptable because appropriate warning is found on packaging.)	<u>Pass</u> <u>See Remark</u>

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	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
Specimen No.	1 - 46	--	--
Mass of trace amount (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 ^{#+} (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 - 46		
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

Specimen Description:

1. Beige soft plastic (100586)
2. Flesh soft plastic (100586)
3. Green soft plastic (100586)
4. Pale flesh soft plastic (100586)

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Specimen Description:

5. Dull brown soft plastic (100586)
6. Deep beige soft plastic (100586)
7. Bright beige soft plastic (100586)
8. Yellow soft plastic (100586)
9. Lt. Orange soft plastic (100586)
10. Pale white soft plastic (100586)
11. Dk. Brown soft plastic (100586)
12. Red soft plastic (100586)
13. Black soft plastic (100586)
14. Pale yellow soft plastic (100586)
15. Matte black soft plastic (100586)
16. Deep grey soft plastic (100586)
17. Dk. Blue soft plastic (100586)
18. Dull flesh soft plastic (100586)
19. Green soft plastic (100586)
20. Dk. Beige soft plastic (100586)
21. Dk. Grey soft plastic (100586)
22. Lt. Red soft plastic (100586)
23. Deep green soft plastic (100586)
24. Dull blue soft plastic (100586)
25. White soft plastic (100586)
26. Pale brown soft plastic (100586)
27. Transparent lt. Orange soft plastic (100586)
28. Transparent lt. Brown soft plastic (100586)
29. Pale blue soft plastic (100586)
30. Grass green soft plastic (100586)
31. Dk. Orange soft plastic (100586)
32. Dull cyan soft plastic (100586)
33. Deep green coating (100586)
34. Deep black-brown coating (100586)
35. Black coating (100586)
36. Dk. Black-grey coating (100586)
37. Dull black coating (100586)
38. Snow white coating (100586)
39. Lt. Orange coating (100586)
40. Creamy brown coating (100586)
41. Bright orange coating (100586)
42. Dk. Brown-beige coating (100586)
43. Blue coating (100586)
44. Matte black coating (100586)
45. Bright green coating (100586)
46. Deep purple coating (100586)

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. Orange coating (100586)
2. Deep pink coating (100586)
3. Dk. Green coating (100586)

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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.

4. Blue-grey coating (100586)
5. White coating (100586)
6. Yellow coating (100586)
7. Lt. Pink coating (100586)
8. Beige coating (100586)
9. Dk. Brown coating (100586)
10. Deep orange coating (100586)
11. Dk. Pink-red coating (100586)
12. Dk. Grey coating (100586)
13. Pale brown coating (100586)
14. Pale blue coating (100586)
15. Bright yellow coating (100586)
16. Dk. Cyan coating (100586)
17. Bright pink coating (100586)
18. Lt. Yellow coating (100586)
19. Pale orange coating (100586)
20. Lt. Pink coating (100586)
21. Deep brown coating (100586)
22. Dk. Red coating (100586)
23. Dusty brown coating (100586)
24. Dull purple coating (100586)
25. Dusty yellow coating (100586)
26. Bright black coating (100586)
27. Dusty grey coating (100586)
28. Deep blue coating (100586)
29. Deep red coating (100586)
30. Deep flesh coating (100586)
31. Coppery coating (100586)
32. Bright orange coating (100586)
33. Green-yellow coating (100586)
34. Lt. Brown coating (100586)

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

Method: With reference to EN1122: 2001 method B

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

For Plastic

Test Item(s)	Cadmium (Cd)
Permissible Limit (mg/kg)	100
Specimen Description	Result(s) (mg/kg)
1. Beige soft plastic (100586) + Flesh soft plastic (100586) + Green soft plastic (100586)	ND
2. Pale flesh soft plastic (100586) + Dull brown soft plastic (100586) + Deep beige soft plastic (100586)	ND
3. Bright beige soft plastic (100586) + Yellow soft plastic (100586) + Lt. Orange soft plastic (100586)	ND
4. Pale white soft plastic (100586) + Dk. Brown soft plastic (100586) + Red soft plastic (100586)	ND
5. Black soft plastic (100586) + Pale yellow soft plastic (100586) + Matte black soft plastic (100586)	ND
6. Deep grey soft plastic (100586) + Dk. Blue soft plastic (100586) + Dull flesh soft plastic (100586)	ND
7. Green soft plastic (100586) + Dk. Beige soft plastic (100586) + Dk. Grey soft plastic (100586)	ND
8. Lt. Red soft plastic (100586) + Deep green soft plastic (100586) + Dull blue soft plastic (100586)	ND
9. White soft plastic (100586) + Pale brown soft plastic (100586) + Transparent lt. Orange soft plastic (100586)	ND
10. Transparent lt. Brown soft plastic (100586) + Pale blue soft plastic (100586) + Grass green soft plastic (100586)	ND
11. Dk. Orange soft plastic (100586) + Dull cyan soft plastic (100586)	ND

For Paint on Painted Article

Test Item(s)	Cadmium (Cd)
Permissible Limit (mg/kg)	1000
Specimen Description	Result(s) (mg/kg)
1. Multi-color coating (100586)	ND

- 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

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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 (%)
Specimen No.	1 - 11		
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. Beige soft plastic w/ multi-color coating (100586) + Flesh soft plastic w/ multi-color coating (100586) + Green soft plastic w/ multi-color coating (100586)
2. Pale flesh soft plastic w/ multi-color coating (100586) + Dull brown soft plastic w/ multi-color coating (100586) + Deep beige soft plastic w/ multi-color coating (100586)
3. Bright beige soft plastic w/ multi-color coating (100586) + Yellow soft plastic w/ multi-color coating (100586) + Lt. Orange soft plastic w/ multi-color coating (100586)
4. Pale white soft plastic w/ multi-color coating (100586) + Dk. Brown soft plastic w/ multi-color coating (100586) + Red soft plastic w/ multi-color coating (100586)
5. Black soft plastic w/ multi-color coating (100586) + Pale yellow soft plastic w/ multi-color coating (100586) + Matte black soft plastic w/ multi-color coating (100586)
6. Deep grey soft plastic w/ multi-color coating (100586) + Dk. Blue soft plastic w/ multi-color coating (100586) + Dull flesh soft plastic w/ multi-color coating (100586)
7. Green soft plastic w/ multi-color coating (100586) + Dk. Beige soft plastic w/ multi-color coating (100586) + Dk. Grey soft plastic w/ multi-color coating (100586)
8. Lt. Red soft plastic w/ multi-color coating (100586) + Deep green soft plastic w/ multi-color coating (100586) + Dull blue soft plastic w/ multi-color coating (100586)
9. White soft plastic w/ multi-color coating (100586) + Pale brown soft plastic w/ multi-color coating (100586) + Transparent lt. Orange soft plastic w/ multi-color coating (100586)
10. Transparent lt. Brown soft plastic w/ multi-color coating (100586) + Pale blue soft plastic w/ multi-color coating (100586) + Grass green soft plastic w/ multi-color coating (100586)
11. Dk. Orange soft plastic w/ multi-color coating (100586) + Dull cyan soft plastic w/ multi-color coating (100586)

- Note:
- % = percentage by weight
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - NA = Not Applicable
 - 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 - 11		
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. Beige soft plastic w/ multi-color coating (100586) + Flesh soft plastic w/ multi-color coating (100586) + Green soft plastic w/ multi-color coating (100586)
2. Pale flesh soft plastic w/ multi-color coating (100586) + Dull brown soft plastic w/ multi-color coating (100586) + Deep beige soft plastic w/ multi-color coating (100586)
3. Bright beige soft plastic w/ multi-color coating (100586) + Yellow soft plastic w/ multi-color coating (100586) + Lt. Orange soft plastic w/ multi-color coating (100586)
4. Pale white soft plastic w/ multi-color coating (100586) + Dk. Brown soft plastic w/ multi-color coating (100586) + Red soft plastic w/ multi-color coating (100586)
5. Black soft plastic w/ multi-color coating (100586) + Pale yellow soft plastic w/ multi-color coating (100586) + Matte black soft plastic w/ multi-color coating (100586)
6. Deep grey soft plastic w/ multi-color coating (100586) + Dk. Blue soft plastic w/ multi-color coating (100586) + Dull flesh soft plastic w/ multi-color coating (100586)
7. Green soft plastic w/ multi-color coating (100586) + Dk. Beige soft plastic w/ multi-color coating (100586) + Dk. Grey soft plastic w/ multi-color coating (100586)
8. Lt. Red soft plastic w/ multi-color coating (100586) + Deep green soft plastic w/ multi-color coating (100586) + Dull blue soft plastic w/ multi-color coating (100586)
9. White soft plastic w/ multi-color coating (100586) + Pale brown soft plastic w/ multi-color coating (100586) + Transparent Lt. Orange soft plastic w/ multi-color coating (100586)
10. Transparent Lt. Brown soft plastic w/ multi-color coating (100586) + Pale blue soft plastic w/ multi-color coating (100586) + Grass green soft plastic w/ multi-color coating (100586)
11. Dk. Orange soft plastic w/ multi-color coating (100586) + Dull cyan soft plastic w/ multi-color coating (100586)

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 - 11	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. Beige soft plastic w/ multi-color coating (100586) + Flesh soft plastic w/ multi-color coating (100586) + Green soft plastic w/ multi-color coating (100586)
2. Pale flesh soft plastic w/ multi-color coating (100586) + Dull brown soft plastic w/ multi-color coating (100586) + Deep beige soft plastic w/ multi-color coating (100586)
3. Bright beige soft plastic w/ multi-color coating (100586) + Yellow soft plastic w/ multi-color coating (100586) + Lt. Orange soft plastic w/ multi-color coating (100586)
4. Pale white soft plastic w/ multi-color coating (100586) + Dk. Brown soft plastic w/ multi-color coating (100586) + Red soft plastic w/ multi-color coating (100586)
5. Black soft plastic w/ multi-color coating (100586) + Pale yellow soft plastic w/ multi-color coating (100586) + Matte black soft plastic w/ multi-color coating (100586)
6. Deep grey soft plastic w/ multi-color coating (100586) + Dk. Blue soft plastic w/ multi-color coating (100586) + Dull flesh soft plastic w/ multi-color coating (100586)
7. Green soft plastic w/ multi-color coating (100586) + Dk. Beige soft plastic w/ multi-color coating (100586) + Dk. Grey soft plastic w/ multi-color coating (100586)
8. Lt. Red soft plastic w/ multi-color coating (100586) + Deep green soft plastic w/ multi-color coating (100586) + Dull blue soft plastic w/ multi-color coating (100586)
9. White soft plastic w/ multi-color coating (100586) + Pale brown soft plastic w/ multi-color coating (100586) + Transparent lt. Orange soft plastic w/ multi-color coating (100586)
10. Transparent lt. Brown soft plastic w/ multi-color coating (100586) + Pale blue soft plastic w/ multi-color coating (100586) + Grass green soft plastic w/ multi-color coating (100586)
11. Dk. Orange soft plastic w/ multi-color coating (100586) + Dull cyan soft plastic w/ multi-color coating (100586)

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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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)
MDL (mg/kg)	5	5	5	8	--
Permissible Limit (mg/kg)	--	--	--	--	100
Specimen No.	--	--	--	--	--
1	ND	ND	ND	ND#	ND

Specimen Description:

1. Transparent plastic w/ black printing (100586)

- 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

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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)
Specimen No.	--	1 - 11		
Bisphenol A	80-05-7	ND	0.010	0.04

Specimen Description:

1. Beige soft plastic w/ multi-color coating (100586) + Flesh soft plastic w/ multi-color coating (100586) + Green soft plastic w/ multi-color coating (100586)
2. Pale flesh soft plastic w/ multi-color coating (100586) + Dull brown soft plastic w/ multi-color coating (100586) + Deep beige soft plastic w/ multi-color coating (100586)
3. Bright beige soft plastic w/ multi-color coating (100586) + Yellow soft plastic w/ multi-color coating (100586) + Lt. Orange soft plastic w/ multi-color coating (100586)
4. Pale white soft plastic w/ multi-color coating (100586) + Dk. Brown soft plastic w/ multi-color coating (100586) + Red soft plastic w/ multi-color coating (100586)
5. Black soft plastic w/ multi-color coating (100586) + Pale yellow soft plastic w/ multi-color coating (100586) + Matte black soft plastic w/ multi-color coating (100586)
6. Deep grey soft plastic w/ multi-color coating (100586) + Dk. Blue soft plastic w/ multi-color coating (100586) + Dull flesh soft plastic w/ multi-color coating (100586)
7. Green soft plastic w/ multi-color coating (100586) + Dk. Beige soft plastic w/ multi-color coating (100586) + Dk. Grey soft plastic w/ multi-color coating (100586)
8. Lt. Red soft plastic w/ multi-color coating (100586) + Deep green soft plastic w/ multi-color coating (100586) + Dull blue soft plastic w/ multi-color coating (100586)
9. White soft plastic w/ multi-color coating (100586) + Pale brown soft plastic w/ multi-color coating (100586) + Transparent lt. Orange soft plastic w/ multi-color coating (100586)
10. Transparent lt. Brown soft plastic w/ multi-color coating (100586) + Pale blue soft plastic w/ multi-color coating (100586) + Grass green soft plastic w/ multi-color coating (100586)
11. Dk. Orange soft plastic w/ multi-color coating (100586) + Dull cyan soft plastic w/ multi-color coating (100586)

- 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

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Test Report

No.T32320270434TY

Date: Jul 11, 2023

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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	<u>Pass (See Detail of test result)</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
	4.3.5.1 Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass (See Detail of test result)</u>
	4.3.5.2 Heavy Metal in Substrate Materials	<u>Pass (See Detail of test result)</u>
4.6.3	Labelling Requirements	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.12	Plastic Film	Pass
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.11	Small Objects, Small Balls, Marbles, and Balloons	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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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 : Absent
- Tracking label on the product : Absent

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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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)
MDL (ppm)	10
Total Limit (ppm)	90
Specimen Description	Result(s) (ppm)
1. Deep green coating (100586)	ND
2. Deep black-brown coating (100586)	ND
3. Black coating (100586)	ND
4. Dk. Black-grey coating (100586)	ND
5. Dull black coating (100586)	ND
6. Snow white coating (100586)	ND
7. Lt. Orange coating (100586)	ND
8. Creamy brown coating (100586)	ND
9. Bright orange coating (100586)	ND
10. Dk. Brown-beige coating (100586)	ND
11. Blue coating (100586)	ND
12. Matte black coating (100586)	ND
13. Bright green coating (100586)	ND
14. Deep purple coating (100586)	ND

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

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

- Orange coating (100586)
- Deep pink coating (100586)
- Dk. green coating (100586)
- Blue-grey coating (100586)
- White coating (100586)
- Yellow coating (100586)
- Lt. pink coating (100586)
- Beige coating (100586)
- Dk. brown coating (100586)
- Deep orange coating (100586)
- Dk. pink-red coating (100586)
- Dk. grey coating (100586)
- Pale brown coating (100586)
- Pale blue coating (100586)
- Bright yellow coating (100586)
- Dk. cyan coating (100586)
- Bright pink coating (100586)
- Lt. yellow coating (100586)

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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 certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions

Pale orange coating (100586)
Lt. pink coating (100586)
Deep brown coating (100586)
Dk. red coating (100586)
Dusty brown coating (100586)
Dull purple coating (100586)
Dusty yellow coating (100586)
Bright black coating (100586)
Dusty grey coating (100586)
Deep blue coating (100586)
Deep red coating (100586)
Deep flesh coating (100586)
Coppery coating (100586)
Bright orange coating (100586)
Green-yellow coating (100586)
Lt. brown coating (100586)
Orange coating (100586)
Deep pink coating (100586)
Dk. Green coating (100586)
Blue-grey coating (100586)
White coating (100586)
Yellow coating (100586)
Lt. Pink coating (100586)
Beige coating (100586)
Dk. Brown coating (100586)
Deep orange coating (100586)
Dk. Pink-red coating (100586)
Dk. Grey coating (100586)
Pale brown coating (100586)
Pale blue coating (100586)
Bright yellow coating (100586)
Dk. Cyan coating (100586)
Bright pink coating (100586)
Lt. Yellow coating (100586)
Pale orange coating (100586)
Lt. Pink coating (100586)
Deep brown coating (100586)
Dk. Red coating (100586)
Dusty brown coating (100586)
Dull purple coating (100586)
Dusty yellow coating (100586)
Bright black coating (100586)
Dusty grey coating (100586)
Deep blue coating (100586)
Deep red coating (100586)
Deep flesh coating (100586)
Coppery coating (100586)
Bright orange coating (100586)
Green-yellow coating (100586)
Lt. Brown coating (100586)

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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)
MDL (ppm)	10
Total Limit (ppm)	100
Specimen Description	Result(s) (ppm)
1. Beige soft plastic (100586)	ND
2. Flesh soft plastic (100586)	ND
3. Green soft plastic (100586)	ND
4. Pale flesh soft plastic (100586)	ND
5. Dull brown soft plastic (100586)	ND
6. Deep beige soft plastic (100586)	ND
7. Bright beige soft plastic (100586)	ND
8. Yellow soft plastic (100586)	ND
9. Lt. orange soft plastic (100586)	ND
10. Pale white soft plastic (100586)	ND
11. Dk. brown soft plastic (100586)	ND
12. Red soft plastic (100586)	ND
13. Black soft plastic (100586)	ND
14. Pale yellow soft plastic (100586)	ND
15. Matte black soft plastic (100586)	ND
16. Deep grey soft plastic (100586)	ND
17. Dk. blue soft plastic (100586)	ND
18. Dull flesh soft plastic (100586)	ND
19. Green soft plastic (100586)	ND
20. Dk. beige soft plastic (100586)	ND
21. Dk. grey soft plastic (100586)	ND
22. Lt. red soft plastic (100586)	ND
23. Deep green soft plastic (100586)	ND
24. Dull blue soft plastic (100586)	ND
25. White soft plastic (100586)	ND
26. Pale brown soft plastic (100586)	ND
27. Transparent lt. orange soft plastic (100586)	ND
28. Transparent lt. brown soft plastic (100586)	ND
29. Pale blue soft plastic (100586)	ND
30. Grass green soft plastic (100586)	ND
31. Dk. orange soft plastic (100586)	ND
32. Dull cyan soft plastic (100586)	ND

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Soluble Heavy Metal Content

Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)	5	5	2.5	10	5	5	5	10
Migration Limit (ppm) -- Other Than Modeling Clays	90	60	25	1000	75	60	60	500
Migration Limit (ppm) -- Modeling Clays	90	60	25	250	50	25	25	500
Specimen No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)						
1 - 46	/	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Beige soft plastic (100586)
2. Flesh soft plastic (100586)
3. Green soft plastic (100586)
4. Pale flesh soft plastic (100586)
5. Dull brown soft plastic (100586)
6. Deep beige soft plastic (100586)
7. Bright beige soft plastic (100586)
8. Yellow soft plastic (100586)
9. Lt. orange soft plastic (100586)
10. Pale white soft plastic (100586)
11. Dk. brown soft plastic (100586)
12. Red soft plastic (100586)
13. Black soft plastic (100586)
14. Pale yellow soft plastic (100586)
15. Matte black soft plastic (100586)
16. Deep grey soft plastic (100586)
17. Dk. blue soft plastic (100586)
18. Dull flesh soft plastic (100586)
19. Green soft plastic (100586)
20. Dk. beige soft plastic (100586)
21. Dk. grey soft plastic (100586)
22. Lt. red soft plastic (100586)
23. Deep green soft plastic (100586)
24. Dull blue soft plastic (100586)
25. White soft plastic (100586)
26. Pale brown soft plastic (100586)
27. Transparent lt. orange soft plastic (100586)
28. Transparent lt. brown soft plastic (100586)
29. Pale blue soft plastic (100586)
30. Grass green soft plastic (100586)
31. Dk. orange soft plastic (100586)
32. Dull cyan soft plastic (100586)
33. Deep green coating (100586)
34. Deep black-brown coating (100586)
35. Black coating (100586)
36. Dk. black-grey coating (100586)
37. Dull black coating (100586)
38. Snow white coating (100586)
39. Lt. orange coating (100586)
40. Creamy brown coating (100586)
41. Bright orange coating (100586)
42. Dk. brown-beige coating (100586)
43. Blue coating (100586)
44. Matte black coating (100586)

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Specimen Description:

- 45. Bright green coating (100586)
- 46. Deep purple coating (100586)

- Note:
- ppm = parts per million
 - µg/component = microgramme per component
 - 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 minimum specimen weight

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 (100586)	ND
2. Beige soft plastic (100586) + Flesh soft plastic (100586) + Green soft plastic (100586)	ND
3. Pale flesh soft plastic (100586) + Dull brown soft plastic (100586) + Deep beige soft plastic (100586)	ND
4. Bright beige soft plastic (100586) + Yellow soft plastic (100586) + Lt. Orange soft plastic (100586)	ND
5. Pale white soft plastic (100586) + Dk. Brown soft plastic (100586) + Red soft plastic (100586)	ND
6. Black soft plastic (100586) + Pale yellow soft plastic (100586) + Matte black soft plastic (100586)	ND
7. Deep grey soft plastic (100586) + Dk. Blue soft plastic (100586) + Dull flesh soft plastic (100586)	ND
8. Green soft plastic (100586) + Dk. Beige soft plastic (100586) + Dk. Grey soft plastic (100586)	ND
9. Lt. Red soft plastic (100586) + Deep green soft plastic (100586) + Dull blue soft plastic (100586)	ND
10. White soft plastic (100586) + Pale brown soft plastic (100586) + Transparent lt. Orange soft plastic (100586)	ND
11. Transparent lt. Brown soft plastic (100586) + Pale blue soft plastic (100586) + Grass green soft plastic (100586)	ND
12. Dk. Orange soft plastic (100586) + Dull cyan soft plastic (100586)	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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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

Method (metal materials): With reference to CPSC-CH-E1001-08.3 - Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)

Test Item(s)	Lead (Pb)
Permissible Limit (ppm)	100
Specimen Description	Result(s) (ppm)
1. Multi-color coating (100586)	ND
2. Beige soft plastic (100586) + Flesh soft plastic (100586) + Green soft plastic (100586)	ND
3. Pale flesh soft plastic (100586) + Dull brown soft plastic (100586) + Deep beige soft plastic (100586)	ND
4. Bright beige soft plastic (100586) + Yellow soft plastic (100586) + Lt. Orange soft plastic (100586)	ND
5. Pale white soft plastic (100586) + Dk. Brown soft plastic (100586) + Red soft plastic (100586)	ND
6. Black soft plastic (100586) + Pale yellow soft plastic (100586) + Matte black soft plastic (100586)	ND
7. Deep grey soft plastic (100586) + Dk. Blue soft plastic (100586) + Dull flesh soft plastic (100586)	ND
8. Green soft plastic (100586) + Dk. Beige soft plastic (100586) + Dk. Grey soft plastic (100586)	ND
9. Lt. Red soft plastic (100586) + Deep green soft plastic (100586) + Dull blue soft plastic (100586)	ND
10. White soft plastic (100586) + Pale brown soft plastic (100586) + Transparent Lt. Orange soft plastic (100586)	ND
11. Transparent Lt. Brown soft plastic (100586) + Pale blue soft plastic (100586) + Grass green soft plastic (100586)	ND
12. Dk. Orange soft plastic (100586) + Dull cyan soft plastic (100586)	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) Specimen No.	CAS No.	Result (s) (%) 1 - 11	MDL (%)	Permissible Limit (%)
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. Beige soft plastic w/ multi-color coating (100586) + Flesh soft plastic w/ multi-color coating (100586) + Green soft plastic w/ multi-color coating (100586)
2. Pale flesh soft plastic w/ multi-color coating (100586) + Dull brown soft plastic w/ multi-color coating (100586) + Deep beige soft plastic w/ multi-color coating (100586)
3. Bright beige soft plastic w/ multi-color coating (100586) + Yellow soft plastic w/ multi-color coating (100586) + Lt. Orange soft plastic w/ multi-color coating (100586)
4. Pale white soft plastic w/ multi-color coating (100586) + Dk. Brown soft plastic w/ multi-color coating (100586) + Red soft plastic w/ multi-color coating (100586)
5. Black soft plastic w/ multi-color coating (100586) + Pale yellow soft plastic w/ multi-color coating (100586) + Matte black soft plastic w/ multi-color coating (100586)
6. Deep grey soft plastic w/ multi-color coating (100586) + Dk. Blue soft plastic w/ multi-color coating (100586) + Dull flesh soft plastic w/ multi-color coating (100586)
7. Green soft plastic w/ multi-color coating (100586) + Dk. Beige soft plastic w/ multi-color coating (100586) + Dk. Grey soft plastic w/ multi-color coating (100586)
8. Lt. Red soft plastic w/ multi-color coating (100586) + Deep green soft plastic w/ multi-color coating (100586) + Dull blue soft plastic w/ multi-color coating (100586)
9. White soft plastic w/ multi-color coating (100586) + Pale brown soft plastic w/ multi-color coating (100586) + Transparent lt. Orange soft plastic w/ multi-color coating (100586)
10. Transparent lt. Brown soft plastic w/ multi-color coating (100586) + Pale blue soft plastic w/ multi-color coating (100586) + Grass green soft plastic w/ multi-color coating (100586)
11. Dk. Orange soft plastic w/ multi-color coating (100586) + Dull cyan soft plastic w/ multi-color coating (100586)

- 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 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	ND	ND	ND	ND [#]	ND

Specimen Description:

1. Transparent plastic w/ black printing (100586)

- 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

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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

Method (metal materials): With reference to CPSC-CH-E1001-08.3 - Standard Operating Procedure for Determining Total Lead (Pb) in Children’s Metal Products (Including Children’s Metal Jewelry)

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. Multi-color coating (100586)	ND
2. Beige soft plastic (100586) + Flesh soft plastic (100586) + Green soft plastic (100586)	ND
3. Pale flesh soft plastic (100586) + Dull brown soft plastic (100586) + Deep beige soft plastic (100586)	ND
4. Bright beige soft plastic (100586) + Yellow soft plastic (100586) + Lt. Orange soft plastic (100586)	ND
5. Pale white soft plastic (100586) + Dk. Brown soft plastic (100586) + Red soft plastic (100586)	ND
6. Black soft plastic (100586) + Pale yellow soft plastic (100586) + Matte black soft plastic (100586)	ND
7. Deep grey soft plastic (100586) + Dk. Blue soft plastic (100586) + Dull flesh soft plastic (100586)	ND
8. Green soft plastic (100586) + Dk. Beige soft plastic (100586) + Dk. Grey soft plastic (100586)	ND
9. Lt. Red soft plastic (100586) + Deep green soft plastic (100586) + Dull blue soft plastic (100586)	ND
10. White soft plastic (100586) + Pale brown soft plastic (100586) + Transparent lt. Orange soft plastic (100586)	ND
11. Transparent lt. Brown soft plastic (100586) + Pale blue soft plastic (100586) + Grass green soft plastic (100586)	ND
12. Dk. Orange soft plastic (100586) + Dull cyan soft plastic (100586)	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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Test Report

No.T32320270434TY

Date: Jul 11, 2023

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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 (%)
Specimen No.	--	1 - 11	
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. Beige soft plastic w/ multi-color coating (100586) + Flesh soft plastic w/ multi-color coating (100586) + Green soft plastic w/ multi-color coating (100586)
2. Pale flesh soft plastic w/ multi-color coating (100586) + Dull brown soft plastic w/ multi-color coating (100586) + Deep beige soft plastic w/ multi-color coating (100586)
3. Bright beige soft plastic w/ multi-color coating (100586) + Yellow soft plastic w/ multi-color coating (100586) + Lt. Orange soft plastic w/ multi-color coating (100586)
4. Pale white soft plastic w/ multi-color coating (100586) + Dk. Brown soft plastic w/ multi-color coating (100586) + Red soft plastic w/ multi-color coating (100586)
5. Black soft plastic w/ multi-color coating (100586) + Pale yellow soft plastic w/ multi-color coating (100586) + Matte black soft plastic w/ multi-color coating (100586)
6. Deep grey soft plastic w/ multi-color coating (100586) + Dk. Blue soft plastic w/ multi-color coating (100586) + Dull flesh soft plastic w/ multi-color coating (100586)
7. Green soft plastic w/ multi-color coating (100586) + Dk. Beige soft plastic w/ multi-color coating (100586) + Dk. Grey soft plastic w/ multi-color coating (100586)
8. Lt. Red soft plastic w/ multi-color coating (100586) + Deep green soft plastic w/ multi-color coating (100586) + Dull blue soft plastic w/ multi-color coating (100586)
9. White soft plastic w/ multi-color coating (100586) + Pale brown soft plastic w/ multi-color coating (100586) + Transparent lt. Orange soft plastic w/ multi-color coating (100586)
10. Transparent lt. Brown soft plastic w/ multi-color coating (100586) + Pale blue soft plastic w/ multi-color coating (100586) + Grass green soft plastic w/ multi-color coating (100586)
11. Dk. Orange soft plastic w/ multi-color coating (100586) + Dull cyan soft plastic w/ multi-color coating (100586)

- 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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Test Report

No.T32320270434TY

Date: Jul 11, 2023

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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 3	General	Pass
Section 4	Packaging	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:

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
Permissible Limit (mg/kg)	90	10
Specimen Description	Result(s) (mg/kg)	
1. Multi-color coating (100586)	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
MDL (mg/kg)	50	50	50	50	50
Permissible Limit (mg/kg)	1000	1000	1000	1000	1000
Specimen Description	Soluble Result(s) (mg/kg)				
1. Multi-color coating (100586)	ND	ND	ND	ND	ND

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

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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)
MDL (mg/kg)	10
Permissible Limit (mg/kg)	90
Specimen Description	Result(s) (mg/kg)
1. Multi-color coating (100586)	ND
2. Beige soft plastic (100586) + Flesh soft plastic (100586) + Green soft plastic (100586)	ND
3. Pale flesh soft plastic (100586) + Dull brown soft plastic (100586) + Deep beige soft plastic (100586)	ND
4. Bright beige soft plastic (100586) + Yellow soft plastic (100586) + Lt. Orange soft plastic (100586)	ND
5. Pale white soft plastic (100586) + Dk. Brown soft plastic (100586) + Red soft plastic (100586)	ND
6. Black soft plastic (100586) + Pale yellow soft plastic (100586) + Matte black soft plastic (100586)	ND
7. Deep grey soft plastic (100586) + Dk. Blue soft plastic (100586) + Dull flesh soft plastic (100586)	ND
8. Green soft plastic (100586) + Dk. Beige soft plastic (100586) + Dk. Grey soft plastic (100586)	ND
9. Lt. Red soft plastic (100586) + Deep green soft plastic (100586) + Dull blue soft plastic (100586)	ND
10. White soft plastic (100586) + Pale brown soft plastic (100586) + Transparent lt. Orange soft plastic (100586)	ND
11. Transparent lt. Brown soft plastic (100586) + Pale blue soft plastic (100586) + Grass green soft plastic (100586)	ND
12. Dk. Orange soft plastic (100586) + Dull cyan soft plastic (100586)	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 (%)
Specimen No.	--	1 - 11		
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. Beige soft plastic w/ multi-color coating (100586) + Flesh soft plastic w/ multi-color coating (100586) + Green soft plastic w/ multi-color coating (100586)
2. Pale flesh soft plastic w/ multi-color coating (100586) + Dull brown soft plastic w/ multi-color coating (100586) + Deep beige soft plastic w/ multi-color coating (100586)
3. Bright beige soft plastic w/ multi-color coating (100586) + Yellow soft plastic w/ multi-color coating (100586) + Lt. Orange soft plastic w/ multi-color coating (100586)
4. Pale white soft plastic w/ multi-color coating (100586) + Dk. Brown soft plastic w/ multi-color coating (100586) + Red soft plastic w/ multi-color coating (100586)
5. Black soft plastic w/ multi-color coating (100586) + Pale yellow soft plastic w/ multi-color coating (100586) + Matte black soft plastic w/ multi-color coating (100586)
6. Deep grey soft plastic w/ multi-color coating (100586) + Dk. Blue soft plastic w/ multi-color coating (100586) + Dull flesh soft plastic w/ multi-color coating (100586)
7. Green soft plastic w/ multi-color coating (100586) + Dk. Beige soft plastic w/ multi-color coating (100586) + Dk. Grey soft plastic w/ multi-color coating (100586)
8. Lt. Red soft plastic w/ multi-color coating (100586) + Deep green soft plastic w/ multi-color coating (100586) + Dull blue soft plastic w/ multi-color coating (100586)
9. White soft plastic w/ multi-color coating (100586) + Pale brown soft plastic w/ multi-color coating (100586) + Transparent lt. Orange soft plastic w/ multi-color coating (100586)
10. Transparent lt. Brown soft plastic w/ multi-color coating (100586) + Pale blue soft plastic w/ multi-color coating (100586) + Grass green soft plastic w/ multi-color coating (100586)
11. Dk. Orange soft plastic w/ multi-color coating (100586) + Dull cyan soft plastic w/ multi-color coating (100586)

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	
	4.4.2 For children 36 months and over but under 72 months	<u>Pass</u>
4.6	Edges	<u>Pass</u>
4.7	Points	<u>Pass</u>
4.10	Plastic film or plastic bags in packaging and in toys	<u>Pass</u>
Annex B	Safety-labeling guidelines and manufacturer’s markings	
B.2	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.2.3	Toys that are small parts, toys containing small parts and toys with removable small part components	<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
MDL (mg/kg)	5	5	2.5	10	5	5	5	10
Permissible Limit (mg/kg) – Other than Modeling Clay and Finger Paint	90	60	25	1000	75	60	60	500
Permissible Limit (mg/kg) – Modeling clay	90	60	25	250	50	25	25	500
Permissible Limit (mg/kg) – Finger paint	25	10	10	350	15	25	10	50
Specimen No.	Mass of trace amount (mg)	Adjusted Soluble Result(s) (mg/kg)						
1 - 46	/	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Beige soft plastic (100586)
2. Flesh soft plastic (100586)
3. Green soft plastic (100586)
4. Pale flesh soft plastic (100586)
5. Dull brown soft plastic (100586)
6. Deep beige soft plastic (100586)
7. Bright beige soft plastic (100586)
8. Yellow soft plastic (100586)
9. Lt. Orange soft plastic (100586)
10. Pale white soft plastic (100586)
11. Dk. Brown soft plastic (100586)
12. Red soft plastic (100586)
13. Black soft plastic (100586)
14. Pale yellow soft plastic (100586)
15. Matte black soft plastic (100586)
16. Deep grey soft plastic (100586)
17. Dk. Blue soft plastic (100586)
18. Dull flesh soft plastic (100586)
19. Green soft plastic (100586)
20. Dk. Beige soft plastic (100586)
21. Dk. Grey soft plastic (100586)
22. Lt. Red soft plastic (100586)
23. Deep green soft plastic (100586)
24. Dull blue soft plastic (100586)
25. White soft plastic (100586)
26. Pale brown soft plastic (100586)
27. Transparent lt. Orange soft plastic (100586)
28. Transparent lt. Brown soft plastic (100586)
29. Pale blue soft plastic (100586)
30. Grass green soft plastic (100586)
31. Dk. Orange soft plastic (100586)
32. Dull cyan soft plastic (100586)
33. Deep green coating (100586)
34. Deep black-brown coating (100586)
35. Black coating (100586)
36. Dk. Black-grey coating (100586)
37. Dull black coating (100586)
38. Snow white coating (100586)
39. Lt. Orange coating (100586)
40. Creamy brown coating (100586)

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Specimen Description:

- 41. Bright orange coating (100586)
- 42. Dk. Brown-beige coating (100586)
- 43. Blue coating (100586)
- 44. Matte black coating (100586)
- 45. Bright green coating (100586)
- 46. Deep purple coating (100586)

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

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

- Orange coating (100586)
- Deep pink coating (100586)
- Dk. Green coating (100586)
- Blue-grey coating (100586)
- White coating (100586)
- Yellow coating (100586)
- Lt. Pink coating (100586)
- Beige coating (100586)
- Dk. Brown coating (100586)
- Deep orange coating (100586)
- Dk. Pink-red coating (100586)
- Dk. Grey coating (100586)
- Pale brown coating (100586)
- Pale blue coating (100586)
- Bright yellow coating (100586)
- Dk. Cyan coating (100586)
- Bright pink coating (100586)
- Lt. Yellow coating (100586)
- Pale orange coating (100586)
- Lt. Pink coating (100586)
- Deep brown coating (100586)
- Dk. Red coating (100586)
- Dusty brown coating (100586)
- Dull purple coating (100586)
- Dusty yellow coating (100586)
- Bright black coating (100586)
- Dusty grey coating (100586)
- Deep blue coating (100586)
- Deep red coating (100586)
- Deep flesh coating (100586)
- Coppery coating (100586)
- Bright orange coating (100586)
- Green-yellow coating (100586)
- Lt. Brown coating (100586)

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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 \leq 0.1% (w/w) in the submitted sample.	PASS
--	------

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.

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Test Sample:

Sample Description: GOOD LUCK MINIS

Group No.	Component No.	Component Description
A	1.	Beige soft plastic w/ multi-color coating (100586)
A	1.	Flesh soft plastic w/ multi-color coating (100586)
A	1.	Green soft plastic w/ multi-color coating (100586)
A	1.	Pale flesh soft plastic w/ multi-color coating (100586)
A	1.	Dull brown soft plastic w/ multi-color coating (100586)
A	1.	Deep beige soft plastic w/ multi-color coating (100586)
A	1.	Bright beige soft plastic w/ multi-color coating (100586)
A	1.	Yellow soft plastic w/ multi-color coating (100586)
A	1.	Lt. Orange soft plastic w/ multi-color coating (100586)
A	1.	Pale white soft plastic w/ multi-color coating (100586)
A	1.	Dk. Brown soft plastic w/ multi-color coating (100586)
A	1.	Red soft plastic w/ multi-color coating (100586)
A	1.	Black soft plastic w/ multi-color coating (100586)
A	1.	Pale yellow soft plastic w/ multi-color coating (100586)
A	1.	Matte black soft plastic w/ multi-color coating (100586)
A	1.	Deep grey soft plastic w/ multi-color coating (100586)
A	1.	Dk. Blue soft plastic w/ multi-color coating (100586)
A	1.	Dull flesh soft plastic w/ multi-color coating (100586)
A	1.	Green soft plastic w/ multi-color coating (100586)
A	1.	Dk. Beige soft plastic w/ multi-color coating (100586)
B	1.	Dk. Grey soft plastic w/ multi-color coating (100586)
B	1.	Lt. Red soft plastic w/ multi-color coating (100586)
B	1.	Deep green soft plastic w/ multi-color coating (100586)
B	1.	Dull blue soft plastic w/ multi-color coating (100586)
B	1.	White soft plastic w/ multi-color coating (100586)
B	1.	Pale brown soft plastic w/ multi-color coating (100586)
B	1.	Transparent Lt. Orange soft plastic w/ multi-color coating (100586)
B	1.	Transparent Lt. Brown soft plastic w/ multi-color coating (100586)
B	1.	Pale blue soft plastic w/ multi-color coating (100586)
B	1.	Grass green soft plastic w/ multi-color coating (100586)
B	1.	Dk. Orange soft plastic w/ multi-color coating (100586)
B	1.	Dull cyan soft plastic w/ multi-color coating (100586)

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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 (%)	
				Group A	Group B
-	All tested SVHC	-	-	ND	ND

Notes:

- 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.
- * 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).

- 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.
- 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 (α -HBCDD, β -HBCDD, γ -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; distr. 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
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;	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
						11113-50-1/ 234-343-4	
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
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

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
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]methylene]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
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	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0/ 229-851-8	0.100
84	β-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-o-toluidine	838-88-0/ 212-658-8	0.100	92	4,4'-Oxydianiline	101-80-4/ 202-977-0	0.100

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
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
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	112	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	114	Lead cyanamidate*	20837-86-9/ 244-073-9	0.010
115	Lead dinitrate*	10099-74-8/ 233-245-9	0.010	116	Lead monoxide*	1317-36-8/ 215-267-0	0.010
117	Lead oxide sulphate*	12036-76-9/ 234-853-7	0.010	118	Lead tetroxide*	1314-41-6/ 215-235-6	0.010
119	Lead titanium trioxide*	12060-00-3/ 235-038-9	0.010	120	Lead titanium zirconium oxide*	12626-81-2/ 235-727-4	0.010
121	Methoxyacetic acid	625-45-6/ 210-894-6	0.100	122	N,N-Dimethylformamide	68-12-2/ 200-679-5	0.100
123	N-Methylacetamide	79-16-3/ 201-182-6	0.100	124	N-Pentyl-isopentylphthalate	776297-69-9 /-	0.100
125	<i>o</i> -Aminoazotoluene	97-56-3/ 202-591-2	0.100	126	<i>o</i> -Toluidine	95-53-4/ 202-429-0	0.100
127	Pentacosafuorotridecanoic acid	72629-94-8/ 276-745-2	0.100	128	Pentalead tetraoxide sulphate*	12065-90-6/ 235-067-7	0.010
129	Propylene oxide	75-56-9/ 200-879-2	0.100	130	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	132	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	134	Tetraethyllead*	78-00-2/ 201-075-4	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
135	Tetralead trioxide sulphate*	12202-17-4/ 235-380-9	0.010	136	Tricosafuorododecanoic acid	307-55-1/ 206-203-2	0.100
137	Trilead bis(carbonate)dihydroxide*	1319-46-6/ 215-290-6	0.010	138	Trilead dioxide phosphonate*	12141-20-7/ 235-252-2	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2013							
139	4-Nonylphenol, branched and linear, ethoxylated	-	0.100	140	Ammoniumpentadecafluoro octanoate (APFO)	3825-26-1/ 223-320-4	0.100
141	Cadmium	7440-43-9/ 231-152-8	0.010	142	Cadmium oxide*	1306-19-0/ 215-146-2	0.010
143	Di-n-pentyl phthalate	131-18-0/ 205-017-9	0.100	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1/ 206-397-9	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013							
145	Cadmium sulphide*	1306-23-6/ 215-147-8	0.010	146	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	148	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	150	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	153	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	155	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	157	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	159	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

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
160	Cadmium fluoride*	7790-79-6 / 232-222-0	0.010	161	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 acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1/ 271-094-0; 272-013-1	0.100	163	5-sec-butyl-2-(2,4-dimethyl cyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-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]	-	0.100
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	165	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	167	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	171	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	173	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	176	Cadmium carbonate*	513-78-0/ 208-168-9	0.010
177	Cadmium hydroxide*	21041-95-2/ 244-168-5	0.010	178	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 ^{6,9} .0 ^{2,13} .0 ^{5,10}]octadeca-7,15-diene ("Dechlorane Plus" TM) [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) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.100	201	4-tert-butylphenol	98-54-4 / 202- 679-0	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 16, 2020							

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
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
218	1,4-dioxane	123-91-1 / 201-025-1	0.100	219	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'-methylene-di-p-cresol	119-47-1 / 204-327-1	0.010	221	tris(2-methoxyethoxy)vinylsilane	1067-53-4 / 213-934-0	0.010
222	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any	-	0.010	223	S-(tricyclo(5.2.1.0 ^{2,6})deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-	255881-94-8 / 401-850-9	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
	of the individual isomers and/or combinations thereof (4-MBC)				ethylhexyl phosphorodithioate		
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	226	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	228	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	230	Isobutyl 4-hydroxybenzoate	4247-02-3 / 224-208-8	0.100
231	Melamine	108-78-1 / 203-615-4	0.100	232	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)morpholine	- / 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)
Permissible Limit (ppm)	90
Specimen Description	Result(s) (ppm)
1. Multi-color coating (100586)	ND
2. Beige soft plastic (100586) + Flesh soft plastic (100586) + Green soft plastic (100586)	ND
3. Pale flesh soft plastic (100586) + Dull brown soft plastic (100586) + Deep beige soft plastic (100586)	ND
4. Bright beige soft plastic (100586) + Yellow soft plastic (100586) + Lt. Orange soft plastic (100586)	ND
5. Pale white soft plastic (100586) + Dk. Brown soft plastic (100586) + Red soft plastic (100586)	ND
6. Black soft plastic (100586) + Pale yellow soft plastic (100586) + Matte black soft plastic (100586)	ND
7. Deep grey soft plastic (100586) + Dk. Blue soft plastic (100586) + Dull flesh soft plastic (100586)	ND
8. Green soft plastic (100586) + Dk. Beige soft plastic (100586) + Dk. Grey soft plastic (100586)	ND
9. Lt. Red soft plastic (100586) + Deep green soft plastic (100586) + Dull blue soft plastic (100586)	ND
10. White soft plastic (100586) + Pale brown soft plastic (100586) + Transparent Lt. Orange soft plastic (100586)	ND
11. Transparent Lt. Brown soft plastic (100586) + Pale blue soft plastic (100586) + Grass green soft plastic (100586)	ND
12. Dk. Orange soft plastic (100586) + Dull cyan soft plastic (100586)	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.

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%.”

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Sample Photo:



SGS authenticate the photo on original report only

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