

No.T32320270408TY

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SAFARI LTD 8010 WESTSIDE INDUSTRIAL DRIVE, JACKSONVILLE FL 32219

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

Collection	Item #	Item Name	CORRESPONDING ITEM #
WINNER'S CIRCLE HORSES	153105	Morgan Stallion	
WINNER'S CIRCLE HORSES	150505	Palomino Mustang Mare	

Case No. CA323202624169

Country of Origin **CHINA**

Country of Destination USA, EU, CANADA, AUSTRALIA

Labeled Age Grading

Requested Age Grading **UNDER 3 YEARS**

Age Group Assessed As Per Age Guideline 1 YEAR+ Age Group Applied in Testing 1 YEAR+ Sample Receiving Date MAR 20, 2023

Testing Period MAR 20, 2023 – JUL 10, 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	SEE
European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-	RESULT
Safety of toys	
EN 71-2:2020 – Safety of toys – Part 2: Flammability	PASS
Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission	PASS
Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 –	
Migration of certain elements (All conclusive testing	
European Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments –	PASS
Cadmium Content	
European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments –	PASS
Organostannic compounds	
European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU)	PASS
2018/2005 – Phthalate content	
Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – PAHs Content	PASS
Commission Directive (EU) 2017/898 amending Appendix C of Annex II to European Directive	PASS
2009/48/EC – Migration BPA	
Article 11 of European Directive 94/62/EC and its amendments – Total Lead, Cadmium,	PASS
Mercury and Hexavalent Chromium Content	
ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS
For existence of tracking label per Consumer Product Safety Improvement Act (CPSIA) of	PASS
2008 section 103 tracking labels for children's products	1 700
CPSIA section 101 - Total Lead content	
CPSIA - Lead in Paint/Similar Surface Coating Materials	PASS
CPSIA - Lead in Accessible Substrate Materials	PASS
US 16 CFR Part 1307 – Phthalates Content	PASS
US California Proposition 65 – Total Lead Content	PASS
California Prop 65 - Phthalates Content	PASS

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Test Requested	Conclusion
US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House)	PASS
(formerly drafted by CONEG) – Total Lead, Cadmium, Mercury and Hexavalent Chromium	
content	
Toys Regulations SOR/2011-17 amended up to January 11, 2019 of Canada Consumer	PASS
Product Safety Act.	
(Including amendments SOR/2012-71, SOR/2016-195, SOR/2016-302 and SOR/2018-138)	
Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing	PASS
Lead Regulations, SOR/2018-83 – Total Lead content	
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	PASS
related to mechanical and physical properties	
AS/NZS 8124.2:2016 – Safety of toys – Part 2: Flammability	PASS
AS/NZS ISO 8124.3: 2021 – Safety of toys – Part 3 – Migration of Certain Elements	PASS
According to the specified scope and analytical techniques, concentrations of tested SVHC	PASS
are ≤ 0.1% (w/w) in the submitted sample.	FASS
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.

Oshene

Wong Sau Wai, Athena Assistant Technical Manager

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TEST RESULTS:

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

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

Clauses relevant to the item:

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

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

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

Summary table:

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

Note:

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

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

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

Clauses relevant to the item:

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

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 – 5		
Mass of trace amount		(mg)			
Soluble Aluminium	(AI)	(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)
rest itelli(s)		1 – 5	WIDE (IIIg/kg)
Methyl tin	(MeT)	ND	0.3
Di-n-propyl tin	(DProT)	ND	0.3
Dimethyl tin	DMT	ND	0.3
Butyl tin	(BuT)	ND	0.3
Dibutyl tin	(DBT)	ND	0.3
Tributyl tin	(TBT)	ND	0.3
n-Octyl tin	(MOT)	ND	0.3
Tetrabutyl tin	(TeBT)	ND	0.3
Diphenyl tin	(DPhT)	ND	0.3
Di-n-octyl tin	(DOT)	ND	0.3
Triphenyl tin	(TPhT)	ND	0.3

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Specimen Description:

- Black coating (153105, 150505)
- Chocolate brown coating (153105)
- Lt beige coating (150505) Dull brown soft plastic (153105)
- 5. Lt brown soft plastic (150505)

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.

- White coating (153105)
- Silvery coating (150505)

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

Method: With reference to EN1122: 2001 method B / IEC 62321-5:2013 Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS)

For Plastic

Test Item(s)	Cadmium (Cd)
Permissible Limit (mg/kg)	100
Specimen Description	Result(s) (mg/kg)
1. Dull brown soft plastic (153105) + Lt brown soft plastic (150505)	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 (153105)	ND
2. Multi-color coating (150505)	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	
Specimen No.	1	INIDE (70)	Limit (%)	
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. Dull brown soft plastic w/ multi-color coating (153105) + Lt brown soft plastic w/ multi-color coating (150505)

Note:

- % = percentage by weight
- MDL = Method Detection Limit

ND = Not Detected (lower than MDL)

- Tri-substituted Organostannic compounds are represented by Tributyltin (TBT) compounds, Triphenyltin (TPhT) compounds, Triphenyltin (TPhT) 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

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
Specimen No.		1	WIDE (70)	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	
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. Dull brown soft plastic w/ multi-color coating (153105) + Lt brown soft plastic w/ multi-color coating (150505)

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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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only

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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)				MDL (mg/kg)	Limit (mg/kg)
Specimen No.			1	MDE (mg/kg)	Lillit (llig/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:

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

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	Permissible limit
Specimen No.		1	(mg/L)	(mg/L)
Bisphenol A	80-05-7	ND	0.010	0.04

Specimen Description:

1. Dull brown soft plastic w/ multi-color coating (153105) + Lt brown soft plastic w/ multi-color coating (150505)

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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^{1.} Dull brown soft plastic w/ multi-color coating (153105) + Lt brown soft plastic w/ multi-color coating (150505)



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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 – 2	ND	ND	ND	ND#	ND

Specimen Description:

1. White paper w/ mu White paper w/ multi color dots coating (153105, 150505)

2. Transparent soft plastic (153105, 150505) + Translucent plastic (153105, 150505)

Note:

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

ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY Clauses relevant to the item:

<u>Clause</u> 4 4.1 4.2	Description Safety Requirements Material Quality ** Flammability Test	Result Pass Pass (See Detail of
4.3 4.3.5	Toxicology Heavy Elements 4.3.5.1 Heavy Elements in Paint/Similar Surface Coating Materials	Pass (See Detail of
	4.3.5.2 Heavy Metal in Substrate Materials	test result) Pass (See Detail of test result)
4.6.1	Small Objects	Pass
4.7	Accessible Edges	Pass Pass
4.9	Accessible Points	<u>Pass</u>
5	Safety Labeling Requirements	_
5.2	Age Grading Labeling	<u>Pass</u>
7 1	Producer's Markings	Doos
7.1 8.5	Producer's Markings Normal Use Testing	Pass Pass
8.7	Impact Test	<u>Pass</u> <u>Pass</u>
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	Pass
** Visual Exa		

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Detail of test result:

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

Sample ALL SAMPLE Burning Rate (inch/sec) 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.

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. Multi-color coating (153105)	ND
2. Multi-color coating (150505)	ND

Soluble Heavy Metal Content

Test Item(s)		Pb	Sb	As	Ва	Cd	Cr	Hg	Se
MDL (ppm)		5	5	2.5	10	5	5	5	10
Migration Limit (ppm)	90	60	25	1000	75	60	60	500
Specimen No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1 – 3	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

- 1. Black coating (153105, 150505)
- Chocolate brown coating (153105)
- 3. Lt beige coating (150505)

Note:

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

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

White coating (153105) Silvery coating (150505)

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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)

Soluble Heavy Metal Content

Test Item(s)		Pb	Sb	As	Ва	Cd	Cr	Hg	Se
MDL (ppm)		5	5	2.5	10	5	5	5	10
Migration Limit (ppm) Other Than Modeling	90	60	25	1000	75	60	60	500
Specimen No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1 – 2	/	ND	ND	ND	ND	ND	ND	ND	ND

- Specimen Description:Dull brown soft plastic (153105)
- 2. Lt brown soft plastic (150505)

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

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

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

- Tracking label on the packaging : Present

- Tracking label on the product : Present

The tracking label assessment was based on the submitted samples and the information Note:

provided by the applicant. There was no verification on the validity of such information.

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 (153105)	ND
2. Multi-color coating (150505)	ND

Note:

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

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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

Test Item(s)	Lead (Pb)
Permissible Limit (ppm)	100
Specimen Description	Result(s) (ppm)
1. Dull brown soft plastic (153105) + Lt brown soft plastic (150505)	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

US 16 CFR Part 1307 - Phthalates Content

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

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

Test Item(s)	CAS No.	Result (s) (%)	MDL (%)	Permissible
Specimen No.		1	WIDE (70)	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-pentlyl 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. Dull brown soft plastic w/ multi-color coating (153105) + Lt brown soft plastic w/ multi-color coating (150505)

Note:

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

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US California Proposition 65 – Total Lead Content

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

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

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

Test Item(s)	Lead (Pb)
Specimen Description	Result(s) (ppm)
1. Dull brown soft plastic (153105) + Lt brown soft plastic (150505)	ÑĎ
2. Multi-color coating (153105)	ND
3. Multi-color coating (150505)	ND

Note:

- ppm = parts per million
- ND = Not Detected (lower than MDL)
- 1% = 10000 mg/kg = 10000 ppm
- 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	Surface Coating	90	Current
No. RG-07-356892)	Accessible substrate	100	Current

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	WIDE (78)
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

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<u>Specimen Description:</u>
1. Dull brown soft plastic w/ multi-color coating (153105) + Lt brown soft plastic w/ multi-color coating (150505)



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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 	≤ 0.1% for each of DBP, BBP, DEHP, DIDP,
children under 3	DnHP and DINP

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 – 2	ND	ND	ND	ND#	ND

Specimen Description: 1. White paper w/ ==

- White paper w/ multi color dots coating (153105, 150505)
- 2. Transparent soft plastic (153105, 150505) + Translucent plastic (153105, 150505)

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

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

Clauses relevant to the item:

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

(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	s) (mg/kg)
1. Multi-color coating (153105)	ND	ND
2. Multi-color coating (150505)	ND	ND

Note:

- mg/kg = milligram per kilogram
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit = 10 mg/kg

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 (153105)	ND ND ND ND ND
2. Multi-color coating (150505)	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. Dull brown soft plastic (153105) + Lt brown soft plastic (150505)	ND
2. Multi-color coating (153105)	ND
3. Multi-color coating (150505)	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

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
Specimen No.		1	WIDE (70)	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-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. Dull brown soft plastic w/ multi-color coating (153105) + Lt brown soft plastic w/ multi-color coating (150505)

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>	Description	<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)	Pass Pass
4.4	Small parts	
	4.4.1 For children under 36 months	<u>Pass</u>
4.6	Edges	<u>Pass</u>
4.7	Points	<u>Pass</u>
Annex B	Safety-labeling guidelines and manufacturer's markings	
B.2	Safety-labeling guidelines	
B.2.1	Good practice for visibility and legibility	See Remark
	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	
B.2.2	Age grading	<u>Pass</u>
B.4	Manufacturer's Markings	_
D. 4	Manuacturer 5 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:

Clause **Description** Result 4.1 **General Requirements Pass**

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	Ва	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
Specimen No. Mass of trace amount (mg) Adjusted Soluble Resul					Result	(s) (mg/	kg)		
1 – 5	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

- Black coating (153105, 150505)
- Chocolate brown coating (153105) 2.
- 3. Lt beige coating (150505)4. Dull brown soft plastic (153105)
- 5. Lt brown soft plastic (150505)

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 IŠO 8124.3: 2021, Clause 7 - Selection of Test

White coating (153105) Silvery coating (150505)

Test Requested

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

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

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

Summary:

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

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Remark:

- 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.

- 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).
- 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.
- 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
- If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description: TOY FIGURINES

Group No.	Component No.	Component Description
Å	⁻ 1.	Dull brown soft plastic w/ multi- color coating (153105)
Α	2.	Lt brown soft plastic w/ multi- color coating (150505)

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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):

			l	
No.	Substance Name	CAS No./	RL (%)	Concentration (%)
NO.	Substance Name	EC No.	KL (70)	<u>A</u>
-	All tested SVHC	-	-	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 2. 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 3. Appendix for the full list of tested SVHC.
- 4. Test result that shown as per test group is the actual concentration from laboratory testing. The test result is calculated by minimum sample weight. Confirmation testing is recommended as to understand the exact content of SVHC in each individual component.

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Appendix

No.	Substance Name	CAS No./ EC No.	RL (%)	No	Substance Name	CAS No./ EC No.	RL (%)
(Candidate List of Substances	of Very High (Concerr	า (S\	/HC) for authorization publish	ed on Oct 28, 2	8002
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 (Concerr	า (S\	/HC) for authorization publish	ed on Jan 13, 2	2010
16	2,4-Dinitrotoluene	121-14-2/ 204-450-0	0.100	17	Anthracene oil*	90640-80-5/ 292-602-7	0.100
18	Anthracene oil, anthracene paste*	90640-81-6/ 292-603-2	0.100	19	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2/ 295-275-9	0.100
20	Anthracene oil, anthracene paste; distn. Lights*	91995-17-4/ 295-278-5	0.100	21	Anthracene oil, anthracene- low*	90640-82-7/ 292-604-8	0.100
22	Diisobutyl phthalate	84-69-5/ 201-553-2	0.100	23	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8/ 235-759-9	0.010
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 (Concerr	n (S\	/HC) for authorization publish	ed on Mar 30, 2	2010
28	Acrylamide	79-06-1/ 201-173-7	0.100				

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No.	Substance Name	CAS No./ EC No.	RL (%)	No	Substance Name	CAS No./ EC No.	RL (%)
(Candidate List of Substances	of Very High (Concerr	า (S\	/HC) for authorization publish	ed on Jun 18, 2	2010
29	Ammonium dichromate*	7789-09-5/ 232-143-1	0.010	30	Boric acid*	10043-35-3/ 233-139-2; 11113-50-1/ 234-343-4	0.010
31	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3/ 215-540-4	0.010	32	Potassium chromate*	7789-00-6/ 232-140-5	0.010
33	Potassium dichromate*	7778-50-9/ 231-906-6	0.010	34	Sodium chromate*	7775-11-3/ 231-889-5	0.010
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1/ 235-541-3	0.010	36	Trichloroethylene	79-01-6/ 201-167-4	0.100
(Candidate List of Substances	of Very High C	Concern	ı (SV	/HC) for authorization publish	ed on Dec 15, 2	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 (Concerr	า (S\	/HC) for authorization publish	ed on Jun 20, 2	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 C	Concern	ı (SV	/HC) for authorization published	ed on Dec 19, 2	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

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

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No.	Substance Name	CAS No./ EC No.	RL (%)	No	Substance Name	CAS No./ EC No.	RL (%)
89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04- 2/ 421-150-7	0.100	90	4-(1,1,3,3- tetramethylbutyl)phenol, ethoxylated	-	0.100
91	4,4'-Methylenedi- <i>o</i> -toluidine	838-88-0/ 212-658-8	0.100	92	4,4'-Oxydianiline	101-80-4/ 202-977-0	0.100
93	4-Aminoazobenzene	60-09-3/ 200-453-6	0.100	94	4-Methyl- <i>m</i> -phenylenediamine	95-80-7/ 202-453-1	0.100
95	4-Nonylphenol, branched and linear	-	0.100	96	6-Methoxy-m-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	10 0	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	10 2	Diethyl sulphate	64-67-5/ 200-589-6	0.100
103	Diisopentylphthalate (DIPP)	605-50-5/ 210-088-4	0.100	10 4	Dimethyl sulphate	77-78-1/ 201-058-1	0.100
105	Dinoseb	88-85-7/ 201-861-7	0.100	10 6	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	10 8	Furan	110-00-9/ 203-727-3	0.100
109	Henicosafluoroundecanoic acid	2058-94-8/ 218-165-4	0.100	11 0	Heptacosafluorotetradecano ic 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	11 2	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0/ 247-094-1; 19438-60-9/ 243-072-0; 48122-14-1/ 256-356-4; 57110-29-9/ 260-566-1	0.100
113	Lead bis(tetrafluoroborate)*	13814-96-5/ 237-486-0	0.010	11 4	Lead cyanamidate*	20837-86-9/ 244-073-9	0.010
115	Lead dinitrate*	10099-74-8/ 233-245-9	0.010	11 6	Lead monoxide*	1317-36-8/ 215-267-0	0.010
117	Lead oxide sulphate*	12036-76-9/ 234-853-7	0.010	11 8	Lead tetroxide*	1314-41-6/ 215-235-6	0.010
119	Lead titanium trioxide*	12060-00-3/ 235-038-9	0.010	12 0	Lead titanium zirconium oxide*	12626-81-2/ 235-727-4	0.010
121	Methoxyacetic acid	625-45-6/ 210-894-6	0.100	12 2	N,N-Dimethylformamide	68-12-2/ 200-679-5	0.100
123	N-Methylacetamide	79-16-3/ 201-182-6	0.100	12 4	N-Pentyl-isopentylphthalate	776297-69-9 /-	0.100
125	o-Aminoazotoluene	97-56-3/ 202-591-2	0.100	12 6	o-Toluidine	95-53-4/ 202-429-0	0.100
127	Pentacosafluorotridecanoic acid	72629-94-8/ 276-745-2	0.100	12 8	Pentalead tetraoxide sulphate*	12065-90-6/ 235-067-7	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)	No	Substance Name	CAS No./ EC No.	RL (%)	
129	Propylene oxide	75-56-9/ 200-879-2	0.100	13 0	Pyrochlore, antimony lead yellow*	8012-00-8/ 232-382-1	0.010	
131	Silicic acid, barium salt, lead-doped*	68784-75-8/ 272-271-5	0.010	13 2	Silicic acid, lead salt*	11120-22-2/ 234-363-3	0.010	
133	Sulfurous acid, lead salt, dibasic*	62229-08-7/ 263-467-1	0.010	13 4	Tetraethyllead*	78-00-2/ 201-075-4	0.010	
135	Tetralead trioxide sulphate*	12202-17-4/ 235-380-9	0.010	13 6	Tricosafluorododecanoic acid	307-55-1/ 206-203-2	0.100	
137	Trilead bis(carbonate)dihydroxide*	1319-46-6/ 215-290-6	0.010	13 8	Trilead dioxide phosphonate*	12141-20-7/ 235-252-2	0.010	
	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	14 0	Ammoniumpentadecafluoro octanoate (APFO)	3825-26-1/ 223-320-4	0.100	
141	Cadmium	7440-43-9/ 231-152-8	0.010	14 2	Cadmium oxide*	1306-19-0/ 215-146-2	0.010	
143	Di-n-pentyl phthalate	131-18-0/ 205-017-9	0.100	14 4	Pentadecafluorooctanoic acid (PFOA)	335-67-1/ 206-397-9	0.100	
	Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013						2013	
145	Cadmium sulphide*	1306-23-6/ 215-147-8	0.010	14 6	Dihexyl phthalate	84-75-3/ 201-559-5	0.100	
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0/ 209-358-4	0.100	14	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7/ 217-710-3	0.100	
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7/ 202-506-9	0.100	15 0	Lead di(acetate)*	301-04-2/ 206-104-4	0.010	
151	Trixylyl phosphate	25155-23-1/ 246-677-8	0.100					
(Candidate List of Substances	of Very High (Concerr	n (S\	/HC) for authorization publish	ed on Jun 16, 2	2014	
	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50- 4/ 271-093-5	0.100	15 3	Cadmium chloride*	10108-64-2/ 233-296-7	0.010	
154	Sodium perborate; perboric acid, sodium salt*	- / 234-390- 0; 239-172-9	0.010	15 5	Sodium peroxometaborate*	7632-04-4/ 231-556-4	0.010	
C	Candidate List of Substances	of Very High C	Concern) (S\	/HC) for authorization publish	ed on Dec 17, 2	2014	
156	2-benzotriazol-2-yl-4,6-di- tert-butylphenol (UV-320)	3846-71-7 / 223-346-6	0.100	15 7	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1 / 247-384-8	0.100	
158	2-ethylhexyl 10-ethyl-4,4- dioctyl-7-oxo-8-oxa-3,5- dithia-4- stannatetradecanoate; DOTE	15571-58-1 / 239-622-4	0.100	15 9	Reaction mass of 2- ethylhexyl 10-ethyl-4,4- dioctyl-7-oxo-8-oxa-3,5- dithia-4- stannatetradecanoate and	-	0.100	

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No.	Substance Name	CAS No./ EC No.	RL (%)	No	Substance Name	CAS No./ EC No.	RL (%)
					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)		
160	Cadmium fluoride*	7790-79-6 / 232-222-0	0.010	16 1	Cadmium sulphate*	10124-36-4; 31119-53-6 / 233-331-6	0.010
(Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 15, 2015						
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic 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		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
С	Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2015,						
164	1,3-propanesultone	1120-71-4 / 214-317-9	0.100	16 5	2,4-di-tert-butyl-6-(5- chlorobenzotriazol-2- yl)phenol (UV-327)	3864-99-1 / 223-383-8	0.100
166	2-(2H-benzotriazol-2-yl)-4- (tert-butyl)-6-(sec- butyl)phenol (UV-350)	36437-37-3 / 253-037-1	0.100	16 7	Nitrobenzene	98-95-3 / 202- 716-0	0.100
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4 / 206-801-3	0.100				
C	Candidate List of Substances	of Very High (Concerr	า (S\	/HC) for authorization publish	ed on Jun 20, 2	016
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8 / 200-028-5	0.100		-		
(Candidate List of Substances	, ,	Concerr) (S\	· · · · · · · · · · · · · · · · · · ·	ed on Jan 12, 2	017
170	4,4'-Isopropylidenediphenol (Bisphenol A)	80-05-7 / 201-245-8	0.100	17 1	4-Heptylphenol, branched and linear	-	0.100
	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		p-(1,1- dimethylpropyl)phenol	80-46-6 / 201- 280-9	0.100
	Candidate List of Substances	of Very High	Concer	n (S	VHC) for authorization publish	hed on Jul 7, 20)17
174	Perfluorohexane-1-sulphonic acid and its salts	-	0.100				

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No.	Substance Name	CAS No./ EC No.	RL (%)	No	Substance Name	CAS No./ EC No.	RL (%)		
Ca	Candidate List of Substances of Very High Concern (SVHC) for authorization published on January 15, 2018								
175	Benz[a]anthracene	56-55-3; 1718-53-2/ 200-280-6	0.100	17 6	Cadmium carbonate*	513-78-0/ 208-168-9	0.010		
177	Cadmium hydroxide*	21041-95-2/ 244-168-5	0.010	17 8	Cadmium nitrate*	10325-94-7/ 233-710-6	0.010		
179	Chrysene	218-01-9; 1719-03-5/ 205-923-4	0.100	18 0	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 synisomers 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	18 3	Benzo[ghi]perylene	191-24-2 / 205-883-8	0.100		
184	Decamethylcyclopentasiloxa ne (D5)	541-02-6 / 208-764-9	0.100	18 5	Dicyclohexyl phthalate (DCHP)	84-61-7 / 201- 545-9	0.100		
186	Disodium octaborate*	12008-41-2 / 234-541-0	0.010	18 7	Dodecamethylcyclohexasilo xane (D6)	540-97-6 / 208-762-8	0.100		
188	Ethylenediamine (EDA)	107-15-3 / 203-468-6	0.100	18 9	Lead	7439-92-1 / 231-100-4	0.010		
190	Octamethylcyclotetrasiloxan e (D4)	556-67-2 / 209-136-7	0.100	19 1	Terphenyl, hydrogenated	61788-32-7 / 262-967-7	0.100		
(Candidate List of Substances	of Very High (Concerr	า (S\	/HC) for authorization publish	ed on Jan 15, 2	2019		
192	2,2-Bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6 / 401-720-1	0.100	19 3	Benzo[k]fluoranthene	207-08-9 / 205-916-6	0.100		
194	Fluoranthene	206-44-0 / 205-912-4	0.100	19 5	Phenanthrene	85-01-8 / 201- 581-5	0.100		
196	Pyrene	129-00-0 / 204-927-3	0.100	19 7	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	Concer	n (S'		ed on Jul 16, 2	019		
198	2,3,3,3-Tetrafluoro-2- (heptafluoropropoxy)propioni c acid, its salts and its acyl halides [covering any of their individual isomers and combinations thereof]	-	0.100	19 9	2-Methoxyethyl acetate	110-49-6 / 203-772-9	0.100		

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No.	Substance Name	CAS No./ EC No.	RL (%)	No	Substance Name	CAS No./ EC No.	RL (%)
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.100	20 1	4-tert-butylphenol	98-54-4 / 202- 679-0	0.100
(Candidate List of Substances	of Very High (Concerr	า (S\	/HC) for authorization publish	ed on Jan 16, 2	2020
202	2-benzyl-2-dimethylamino- 4'-morpholinobutyrophenone	119313-12- 1 / 404-360- 3	0.100	20 3	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	20 5	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.100
(Candidate List of Substances	of Very High (Concerr	า (S\	/HC) for authorization publish	ed on Jun 25, 2	2020
206	1-Vinylimidazole	1072-63-5 / 214-012-0	0.100	20 7	2-Methylimidazole	693-98-1 / 211-765-7	0.100
208	Butyl 4-hydroxybenzoate	94-26-8 / 202-318-7	0.100	20 9	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4 / 245-152-0	0.100
(Candidate List of Substances	of Very High (Concerr	n (S\	/HC) for authorization publish	ed on Jan 19, 2	2021
210	Bis(2-(2- methoxyethoxy)ethyl)ether	143-24-8 / 205-594-7	0.100	21	Dioctyltin 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	Concer	n (S	VHC) for authorization publis	hed on Jul 8, 20)21
212	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-	0.100	21 3	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	21 5	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		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		4,4'-(1-methylpropylidene) bisphenol	77-40-7 / 201-025-1	0.100

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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 Jan 17, 2022								
220	6,6'-di-tert-butyl-2,2'- methylenedi-p-cresol	119-47-1 / 204-327-1	0.010		tris(2- methoxyethoxy)vinylsilane	1067-53-4 / 213-934-0	0.010		
222	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bic yclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.010	22 3	S-(tricyclo(5.2.1.02,6)deca- 3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2- ethylhexyl) phosphorodithioate	255881-94-8 / 401-850-9	0.010		
	Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 10, 2022								
224	N- (hydroxymethyl)acrylamide	924-42-5/ 213-103-2	0.010	-	-	-	-		
(Candidate List of Substances	of Very High (Concerr	า (S\	/HC) for authorization publish	ed on Jan 17, 2	2023		
225	1,1'-[ethane-1,2- diylbisoxy]bis[2,4,6- tribromobenzene]	37853-59-1 / 253-692-3	0.100		2,2',6,6'-tetrabromo-4,4'- isopropylidenediphenol	79-94-7 / 201- 236-9	0.100		
227	4,4'-sulphonyldiphenol	80-09-1 / 201-250-5	0.100	22 8	Barium diboron tetraoxide	13701-59-2 / 237-222-4	0.010		
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.100	23 0	Isobutyl 4-hydroxybenzoate	4247-02-3 / 224-208-8	0.100		
231	Melamine	108-78-1 / 203-615-4	0.100	23 2	Perfluoroheptanoic acid and its salts	-	0.100		
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholin e	- / 473-390- 7	0.100						

Notes

- 1. RL = Reporting Limit. All RL are based on homogenous material
- * 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 (153105)	ND
2. Multi-color coating (150505)	ND

Note:

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

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REMARK:

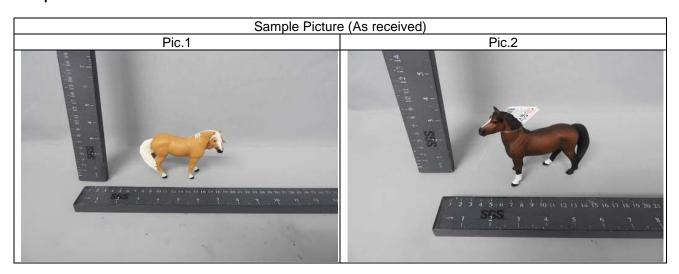
When statement of conformity is made, unless inherent in the requested specification, the decision rule

would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U_{95}$) in ILAC-G8:09/2019 Clause 4.2.3. "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.".

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

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

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