

TEST REPORT

APPLICANT : IMAGEN Brands

ADDRESS : 4680 Parkway Drive, Suite 200 Mason, Ohio

SAMPLE DESCRIPTION : VAUR001 Mini Flopsie
VAUR002 Taddle Toes

ITEM NO. : #VAUR001BK-BEAR
#VAUR001BK-DOG-LAB
#VAUR001BK-WH-COW-MINIMOO
#VAUR001BK-WH-PANDABEAR
#VAUR001BR-CHIMP-CHEKI
VAUR001BR-CR-GIRAFFE-GIGI
#VAUR001BR-GRIZZLYBEAR
#VAUR001BR-SQUIRREL-NUTSIE
#VAUR001BR-WH-HORSE-CLYDES
#VAUR001BULLDOG-SEMPERFI
#VAUR001CR-LLAMA
#VAUR001DOG-SCRUFF
#VAUR001EAGLE-LIBERTY
#VAUR001GR-ELEPHANT-ELLIE
#VAUR001RD-FOX-FOXXIE
#VAUR001TIGER-TANYA
#VAUR001TN-LION-LIONEL
#VAUR001TN-SLOTH
#VAUR001YL-DOG-GOLDENLAB
#VAUR002BK-WHBEAR-PANDA
#VAUR002BR-GIRAFFEE-SADDIE
#VAUR002BR-HORSE-TROTS
#VAUR0020-OWL-WINKS
#VAUR002BR-SLOTH-SASSAFRAS
#VAUR002GR-WOLF-ECLIPSE

#VAUR002GY-ELEPHANT-STOMPER

#VAUR002PK-PIGGY-SNORTSTER

BUYER : AMY MCKEEHAN

MANUFACTURER : AWP028622

COUNTRY OF ORIGIN : Indonesia

COUNTRY OF DESTINATION : U.S.A, Canada

AGE REQUESTED ON APPLICATION FORM : 0+

LABELED AGE GRADE : Not Present

AGE GRADE APPLIED IN TESTING : All Ages

SAMPLE RECEIVED DATE : 25-Nov-2020

TURN AROUND TIME : 25-Nov-2020 to 04-Dec-2020

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Mechanical and Physical Properties	SOR/2011-17 amended by SOR/2018-138	Pass
Flammability of Toys	SOR/2011-17 amended by SOR/2018-138	Pass
Total Lead Content in Paint / Surface Coating	US 16 CFR 1303	Pass
Total Lead Content in Substrate	US CPSIA, Section 101	Pass
Total Lead Content	US California Proposition 65	Pass
Heavy Metals In Surface Coating	SOR/2011-17 amended by SOR/2018-138	Pass
Phthalates Content	US CPSIA, Section 108	Pass
Phthalates Content	US California Proposition 65	Pass
Phthalates Content	SOR/2016-188, Phthalate Regulations	Pass
Heavy Metals In Plastic Materials	SOR/2011-17 amended by SOR/2018-138	Pass
Phthalates Content	CPSC 16 CFR part 1307	Pass
Mechanical and Physical Properties	ASTM F963-17	Pass
Flammability of Toys	ASTM F963-17	Pass
Heavy Metals	ASTM F963-17	Pass

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.sh@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint@eurofins.com

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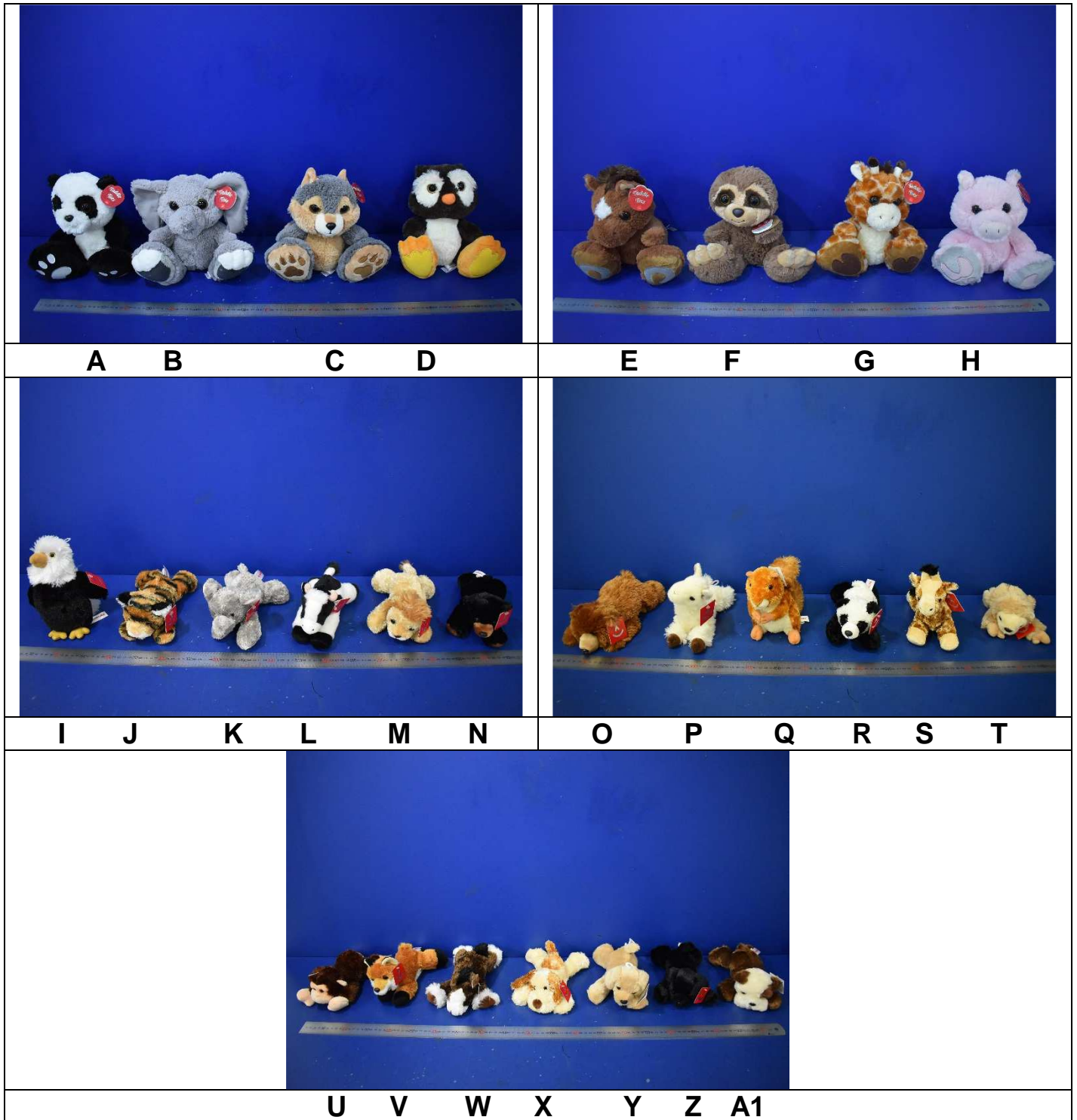
***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd



Joyce Liu
Lab Manager

SAMPLE PHOTO(S)



EFSH20111807-CG-01

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Sample No.
1	White fabric with multi-color coating (label)	C E F I J K L M N O P Q R S T U V W X Y Z
2	Yellow fabric with transparent coating foot	I
3	Black coating on plastic eye	Q
4	Orange plastic eye	Q
5	Transparent plastic eye	A B C D E F G H I J M N O P R S T U V W Y Z A1
6	Black plastic eye	K L X
7	Black plastic nose	A C N O R T V Y Z A1
8	Dark brown plastic nose	F J
9	Pink plastic nose	J
10	Semi-transparent plastic (filling)	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
11	White rubber of white elastic band (tail)	H
12	White fabric with multi-color printing (label)	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z A1
13	White fabric with multi-color threads (sewn-in label)	G H
14	White plush fabric body	A
15	Black plush fabric body	A
16	Black fabric foot	A
17	White fabric foot	A
18	White embroidered thread	A
19	Black thread mouth	A N V Y A1
20	Grey plush fabric body	B
21	Grey fabric ear	B
22	White fabric foot	B
23	Dark grey fabric foot	B
24	Light grey fabric foot	B
25	White thread toe	B
26	Grey plush fabric body	C
27	Brown plush fabric body	C
28	Brown long plush fabric face	C
29	Brown fabric ear/foot	C
30	Dark brown fabric toe	C
31	White fabric mouth	C
32	Black embroidered thread mouth	C F L R
33	Light brown embroidered thread toe	C
34	Dark brown embroidered thread toe	C
35	Dark brown fabric body	D
36	Beige fabric body	D
37	Beige plush fabric eyebrow	D
38	Orange fabric mouth	D
39	Orange fabric foot	D
40	Yellow fabric foot	D
41	Yellow embroidered thread foot	D
42	Brown fabric body	E
43	Brown plush fabric hair/tail	E
44	Light brown fabric ear	E
45	White fabric head	E

46	Brown fabric foot	E
47	Grey fabric foot	E
48	Grey embroidered thread foot	E
49	Dark brown fabric nose	E
50	Brown fabric body	F
51	Dark brown fabric eye	F
52	Beige fabric eye	F
53	Light brown fabric mouth	F
54	Brown thread toe	F
55	Orange/white fabric body	G
56	Brown long plush fabric hair/tail	G
57	Brown fabric horn	G
58	Cream white fabric horn/ear	G
59	Beige plush fabric mouth	G
60	Dark brown embroidered thread toe/nose	G S
61	Brown fabric foot	G
62	Dark brown fabric foot	G
63	Pink fabric body	H
64	Light pink fabric nose	H
65	Brown embroidered thread nose	H P Q
66	Grey fabric foot	H
67	Pink fabric foot	H
68	Pink embroidered thread toe	H
69	Black fabric body	I S W
70	Black fabric wing	I
71	White plush fabric head	I L V W
72	Yellow fabric mouth	I
73	Orange/black fabric body	J
74	Black fabric ear	J
75	White fabric ear	J
76	White long plush fabric hair	J
77	White fabric body	J M R
78	Light brown fabric mouth	J
79	Pink thread mouth	J
80	Grey fabric body	K
81	Pink fabric ear	K
82	Grey fabric foot	K
83	White fabric body	L
84	Black fabric body	L N Z
85	Fresh color fabric horn	L
86	Yellow long plush fabric hair	M
87	Yellow fabric body	M
88	Brown thread mouth	M W
89	Yellow fabric foot	M
90	Dark brown fabric foot	N
91	Brown plush fabric body	O
92	Cream plush fabric body	P
93	Cream fabric face	P
94	Brown fabric foot	P
95	Grey fabric ear	P
96	Black plush fabric	R
97	White fabric mouth	L R
98	Orange/yellow fabric body	S
99	Yellow fabric face/foot	S
100	Yellow plush fabric hair	S

101	Light brown fabric body	T
102	Dark brown non-woven fabric eye	T
103	Beige fabric face	T
104	Light brown fabric foot	T
105	Dark brown fabric body	U
106	Skin color fabric face	U
107	Brown fabric nose	U
108	Brown thread mouth	U
109	Orange fabric body	V
110	Black fabric ear/foot	V
111	Light brown fabric ear	V
112	Yellow fabric nose	V
113	White short plush fabric mouth	V
114	Brown plush fabric body	W
115	White plush fabric body	W
116	Brown fabric foot	W
117	Light yellow fabric body	X
118	Orange fabric body	X
119	Brown fabric nose	X
120	Light brown fabric body	Y
121	Beige fabric foot	Y
122	Black fabric foot	Z
123	Cream fabric mouth	Q
124	Cream fabric body	Q
125	Orange fabric hand	Q
126	Orange thread finger	Q
127	Orange long plush fabric tail	Q
128	Orange fabric body	Q
129	Beige plush fabric	A1
130	Brown plush fabric	A1
131	Transparent plastic (plastic pin/packaging)	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z A1
132	White plastic hook (packaging)	R Y

TO BE CONTINUED

TEST RESULT

Mechanical and Physical Properties

Test Request: As specified in the mechanical hazards requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 amended by SOR/2018-138 and Schedule 2.

Section	Description	Result
	Packaging	
4	Flexible film bag	N/A
	Mechanical Hazards	
7	Small parts	P
8	Metal edges	N/A
9	Wire frames	N/A
10	Plastic edges	P
11	Wood	N/A
12	Glass	N/A
13	Fasteners	N/A
14	Safety stops or locking devices	N/A
15	Spring-wound driving mechanisms	N/A
16	Projectile components	N/A
17	Enclosures	N/A
18	Stability	N/A
	Auditory Hazards	
19	Decibel limit	N/A
	Thermal and Flammability Hazards	
20	Heated surfaces, parts or substances	N/A
	Specific Products	
28	Dolls, plush toys and soft toys - fastenings	N/A
29	Dolls, plush toys and soft toys – stuffing	P
30	Dolls, plush toys and soft toys - small parts	N/A
31	Dolls, plush toys and soft toys - eyes and noses	P
35	Plant seeds - noise	N/A
36	Plant seeds - stuffing material	P
37	Pull and push toys - shaft-like handles	N/A
38	Toys steam engines - boilers – safety values	N/A
39	Finger paints - water-based paints	N/A
40	Rattles - construction	N/A
41	Elastics - length or extensibility	N/A
42	Yo-Yo type balls - stretchable cord	N/A
43	Magnetic Toys - Magnetic Force	N/A
44	Magnetic Toys - Exceptions	N/A
	Canada Consumer Product Safety Act, Schedule 2	
1	Jequirity Beans	P
8	Kites	N/A
9	Kite strings	N/A
14	Lawn, darts with elongated tips	N/A

Remark:

P – Pass

N/A – Not Applicable

TO BE CONTINUED

TEST RESULT

Flammability of Toys

Test Request: As specified in the flammability requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 amended by SOR/2018-138.

Section	Description	Result
21	Flammability Of Cellulose Nitrate	P
32	Flammability Of Outer Covering On Doll, Plush Toy And Soft Toy	N/A
33	Flammability of Yarn on Doll, Plush Toy and Soft Toy	N/A
34	Flammability of Hair or Mane on Doll, Plush Toy and Soft Toy	N/A

Remark:

P – Pass

N/A – Not Applicable

TO BE CONTINUED

TEST RESULT

Total Lead Content in Paint / Surface Coating

Test Request: Total lead content as specified in US 16 CFR 1303

Test Method: CPSC-CH-E1003-09.1

The sample was acid digested, and total lead content was determined by ICP-OES.

Tested Item(s)	Unit	Limit	MDL	Result		
				1	2	3
Total Lead(Pb)	mg/kg	90	10	ND	ND	30

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Lead Content in Substrate

Test Request: Total lead in substrate as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101

Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3
The sample was acid digested, and total lead content was determined by ICP-OES.

Tested Item(s)	Unit	Limit	MDL	Result			
				4	5	6	7
Total Lead(Pb)	mg/kg	100	10	32	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result			
				8	9	10	11
Total Lead(Pb)	mg/kg	100	10	ND	ND	ND	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Lead Content

Test Request: Total lead content as specified in US California Proposition 65
 Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996
 Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

Tested Item(s)	Unit	Limit	MDL	Result		
				1	2	3
Total Lead(Pb)	mg/kg	90	10	ND	ND	30

Tested Item(s)	Unit	Limit	MDL	Result								
				4	5	6	7	8	9	10	11	
Total Lead(Pb)	mg/kg	100	10	32	ND	ND	ND	ND	ND	ND	ND	ND

Remark:

mg/kg = milligram per kilogram
 MDL = method detection limit
 ND = Not detected, less than MDL

The limit(s) was/were referred from various court cases.
 Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

TO BE CONTINUED

TEST RESULT

Heavy Metals In Surface Coating

Test Request: Heavy Metals Content In Surface Coating as specified in Canada Consumer Product Safety Act - Toys Regulations, SOR/2011-17 amended by SOR/2018-138, Section 23

Test Method: Sample portion of surface coating was collected by mechanical method with surgical blade. Wet digestion with nitric acid for lead and mercury; migration of soluble elements of antimony, arsenic, barium, cadmium and selenium were performed in 5% hydrochloric acid after being stirred for 10 minutes at 20°C. All elements were analyzed by ICP-OES.

Tested Item(s)	Unit	Limit	MDL	Result		
				1	2	3
Total Lead(Pb)	%	0.009	0.001	ND	ND	0.0030
Total Mercury(Hg)	%	See Note	0.0001	ND	ND	ND
soluble Antimony(Sb)	%	0.1	0.0005	ND	ND	ND
soluble Arsenic(As)	%	0.1	0.00025	ND	ND	ND
soluble Barium(Ba)	%	0.1	0.001	ND	ND	ND
soluble Cadmium(Cd)	%	0.1	0.0005	ND	ND	ND
soluble Selenium(Se)	%	0.1	0.001	ND	ND	ND

Remark:

Note: Any compound of mercury introduced as such.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Phthalates Content as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 108

Test Method: CPSC-CH-C1001-09.4

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1	2	3	4
For toys and childcare articles								
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Di-2-ethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Additional requirements for toys and childcare articles, which can be placed in the mouth by children								
Diisononyl phthalate (DINP)	68515-48-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND	ND	ND	ND
Di-iso-decylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
					5	6	7	8
For toys and childcare articles								
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Di-2-ethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Additional requirements for toys and childcare articles, which can be placed in the mouth by children								
Diisononyl phthalate (DINP)	68515-48-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND	ND	ND	ND
Di-iso-decylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					9	10	11
For toys and childcare articles							
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND
Di-2-ethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND
Additional requirements for toys and childcare articles, which can be placed in the mouth by children							
Diisononyl phthalate (DINP)	68515-48-0	%	0.1	0.005	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND	ND	ND
Di-iso-decylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Phthalates Content as specified in US California Proposition 65

Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1	2	3	4
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
					5	6	7	8
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
					9	10	11	131
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result
					132
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.1	0.005	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

The limit(s) was/were referred from various court cases.

Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Phthalates Content as specified in Canada Consumer Product Safety Act - Phthalate Regulations, SOR/2016-188.

Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1	2	3	4
For the vinyl in a toy or child care article								
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
For the vinyl in any part of a toy or child care article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under four years of age								
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
					5	6	7	8
For the vinyl in a toy or child care article								
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
For the vinyl in any part of a toy or child care article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under four years of age								
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result
					9
For the vinyl in a toy or child care article					
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND
For the vinyl in any part of a toy or child care article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under four years of age					
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Heavy Metals In Plastic Materials

Test Request: Heavy Metals Content In Plastic Materials as specified in Canada Consumer Product Safety Act - Toys Regulations, SOR/2011-17 amended by SOR/2018-138, Section 27(b)

Test Method: Wet digestion with nitric acid for lead and mercury; migration of soluble elements of antimony, arsenic, barium, cadmium and selenium were performed in 5% hydrochloric acid after being stirred for 10 minutes at 20°C. All elements were analyzed by ICP-OES.

Tested Item(s)	Unit	Limit	MDL	Result						
				4	5	6	7	8	9	
Total Lead(Pb)	%	0.009	0.001	0.0032	ND	ND	ND	ND	ND	ND
Total Mercury(Hg)	%	See Note	0.0001	ND	ND	ND	ND	ND	ND	ND
soluble Antimony(Sb)	%	0.1	0.0005	ND	ND	ND	ND	ND	ND	ND
soluble Arsenic(As)	%	0.1	0.00025	ND	ND	ND	ND	ND	ND	ND
soluble Barium(Ba)	%	0.1	0.001	ND	ND	ND	ND	ND	ND	ND
soluble Cadmium(Cd)	%	0.1	0.0005	ND	ND	ND	ND	ND	ND	ND
soluble Selenium(Se)	%	0.1	0.001	ND	ND	ND	ND	ND	ND	ND

Remark:

Note: Any compound of mercury introduced as such.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates as specified in CPSC 16 CFR part 1307.

Test Method: CPSC-CH-C1001-09.4

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1	2	3	4
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Di-2-ethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
					5	6	7	8
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND	ND	ND
Di-2-ethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND	ND

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
					9	10	11
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND	ND
Di-2-ethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Mechanical and Physical Properties

Test Request: As specified in Consumer Safety Specification ASTM F963-17

Section	Description	Result
4.1	Material Quality	P
4.3.7	Stuffing Materials	P
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	P
4.6.1	Toys that are intended for children under 36 months of age	P
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Toys that are intended for children over 36 months but less than 72 months	N/A
4.7	Accessible Edges	P
4.8	Projections	N/A
4.8.1	Bath Toy Projections	N/A
4.9	Accessible Points	P
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	N/A
4.12	Plastic Film	N/A
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	P
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearances, and Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys (exclude section 4.25.10 Battery-powered ride-on toys and section 4.25.11 Toys contain secondary cells or secondary batteries)	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	P
4.28	Stroller and Carriage Toys	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding material	N/A
4.41	Toy Chests	N/A
5	Labeling Requirements	
5.2	Age Grading Labeling	See Remark 1
5.3	Safety Labeling Requirements	N/A

TEST RESULT

Section	Description	Result
5.4	Aquatic Toys	N/A
5.5	Crib and Playpen Toys	N/A
5.6	Mobiles	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled by an Adult	N/A
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges and Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19)	N/A
5.12	Toy Caps (16 CFR 1500.86 for Required Labeling)	N/A
5.13	Art Materials (16 CFR 1500.14(b)(8))	N/A
5.14	Electric Toys	N/A
5.15	Battery-Operated Toys	N/A
5.15.1	Battery-Powered Ride-On Toys	N/A
5.15.2	Button or Coin Cell Batteries	N/A
5.16	Promotional Materials	N/A
5.17	Magnets	N/A
6	Instructional Literature	
6.1	Definition and Description	N/A
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	N/A
6.6	Battery-Powered Ride-On Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
7	Producer's Markings	
7.1	Producer's or Distributor's Name and Address	P
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy Chests	N/A

Remark:

P – Pass

N/A – Not Applicable

1. All toys should be labeled to indicate the minimum age for intended use or have such labeling on any retail packaging.

TO BE CONTINUED

TEST RESULT

Flammability of Toys

Test Request: As specified in ASTM F963-17, Section 4.2, testing procedure for materials other than textiles (excluding paper) used in toys is contained in Annex A5.

Sample	Limit	Result
A	0.1 inch/second	P
B	0.1 inch/second	P
C	0.1 inch/second	P
D	0.1 inch/second	P
E	0.1 inch/second	P
F	0.1 inch/second	P
G	0.1 inch/second	P
H	0.1 inch/second	P
I	0.1 inch/second	P
J	0.1 inch/second	P
K	0.1 inch/second	P
L	0.1 inch/second	P
M	0.1 inch/second	P
N	0.1 inch/second	P
O	0.1 inch/second	P
P	0.1 inch/second	P
Q	0.1 inch/second	P
R	0.1 inch/second	P
S	0.1 inch/second	P
T	0.1 inch/second	P
U	0.1 inch/second	P
V	0.1 inch/second	P
W	0.1 inch/second	P
X	0.1 inch/second	P
Y	0.1 inch/second	P
Z	0.1 inch/second	P
A1	0.1 inch/second	P

Remark:

P – Pass

TO BE CONTINUED

TEST RESULT

Heavy Metals

1) ASTM F963-17- Heavy Elements – Total Lead in Paint and Similar Surface-Coating Material(Clause 4.3.5.1(1))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result		
				1	2	3
Total Lead	mg/kg	90	10	ND	ND	30

2) ASTM F963-17- Heavy Elements – Total Lead in Substrate Material (Clause 4.3.5.2(2)(a))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result			
				4	5	6	7
Total Lead(Pb)	mg/kg	100	10	32	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result			
				8	9	10	11
Total Lead(Pb)	mg/kg	100	10	ND	ND	ND	ND

3) ASTM F963-17- Heavy Elements – Total Elements Content, Initial Screening for Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay(Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result				
				1	2	3	4	5
Total Antimony	mg/kg	60	5	30	76*	ND	ND	29
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	37
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	30	32	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				6	7	8	9	10
Total Antimony	mg/kg	60	5	15	17	11	18	285*
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Tested Item(s)	Unit	Limit	MDL	Result					
				11	12	13	14	15	16
Total Antimony	mg/kg	60	5	159*	113*	135*	ND	72*	80*
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	7.53*10 ³ *	ND	ND	ND	224	72
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				17	18	19	20	21
Total Antimony	mg/kg	60	5	ND	103*	ND	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	193	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				22	23	24	25	26
Total Antimony	mg/kg	60	5	105*	ND	ND	ND	54
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	76	ND	ND	305
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				27	28	29	30	31
Total Antimony	mg/kg	60	5	107*	44	ND	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	163	85	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Tested Item(s)	Unit	Limit	MDL	Result				
				32	33	34	35	36
Total Antimony	mg/kg	60	5	45	ND	31	131*	112*
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	288	194
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				37	38	39	40	41
Total Antimony	mg/kg	60	5	ND	ND	ND	ND	63*
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	258	ND	ND	ND	67
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				42	43	44	45	46
Total Antimony	mg/kg	60	5	67*	105*	49	176*	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	291	ND	ND	202	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				47	48	49	50	51
Total Antimony	mg/kg	60	5	ND	52	ND	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	129
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Tested Item(s)	Unit	Limit	MDL	Result				
				52	53	54	55	56
Total Antimony	mg/kg	60	5	93*	ND	ND	173*	132*
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	214	120	ND	69	73
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				57	58	59	60	61
Total Antimony	mg/kg	60	5	53	141*	ND	123*	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	76	146	96	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				62	63	64	65	66
Total Antimony	mg/kg	60	5	ND	116*	ND	ND	77*
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	280	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	21	51	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				67	68	69	70	71
Total Antimony	mg/kg	60	5	74*	51	45	60*	139*
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	53	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Tested Item(s)	Unit	Limit	MDL	Result				
				72	73	74	75	76
Total Antimony	mg/kg	60	5	ND	135*	ND	135*	69*
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	77	71	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				77	78	79	80	81
Total Antimony	mg/kg	60	5	ND	123*	116*	64*	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	127	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				82	83	84	85	86
Total Antimony	mg/kg	60	5	ND	58	49	ND	143*
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	86
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	42	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				87	88	89	90	91
Total Antimony	mg/kg	60	5	ND	ND	ND	ND	134*
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	93	79
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Tested Item(s)	Unit	Limit	MDL	Result				
				92	93	94	95	96
Total Antimony	mg/kg	60	5	142*	46	193*	56	45
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	145	ND	91	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				97	98	99	100	101
Total Antimony	mg/kg	60	5	ND	113*	ND	118*	59
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	85
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				102	103	104	105	106
Total Antimony	mg/kg	60	5	ND	36	ND	71*	57
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				107	108	109	110	111
Total Antimony	mg/kg	60	5	198*	58	76*	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Tested Item(s)	Unit	Limit	MDL	Result				
				112	113	114	115	116
Total Antimony	mg/kg	60	5	ND	127*	ND	141*	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				117	118	119	120	121
Total Antimony	mg/kg	60	5	39	152*	ND	37	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	29
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				122	123	124	125	126
Total Antimony	mg/kg	60	5	ND	ND	131*	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	ND	ND	ND	ND	608
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result			
				127	128	129	130
Total Antimony	mg/kg	60	5	ND	76*	43	ND
Total Arsenic	mg/kg	25	5	ND	ND	ND	ND
Total Barium	mg/kg	1000	10	103	ND	ND	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	ND
Total Lead	mg/kg	90	10	ND	ND	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

4) ASTM F963-17- Heavy Elements – Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.2 to 8.3.5 (excluding 8.3.5.5(3))

Tested Item(s)	Unit	Limit	MDL	Result				
				2	10	11	12	13
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	32	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				15	16	18	22	27
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				35	36	41	42	43
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				45	52	55	56	58
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Tested Item(s)	Unit	Limit	MDL	Result				
				60	63	66	67	70
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				71	73	75	76	78
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				79	80	86	91	92
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result				
				94	98	100	105	107
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Tested Item(s)	Unit	Limit	MDL	Result				
				109	113	115	118	124
Soluble Antimony	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Arsenic	mg/kg	25	5	ND	ND	ND	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND	ND	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Lead	mg/kg	90	10	ND	ND	ND	ND	ND
Soluble Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result
				128
Soluble Antimony	mg/kg	60	5	ND
Soluble Arsenic	mg/kg	25	5	ND
Soluble Barium	mg/kg	1000	10	ND
Soluble Cadmium	mg/kg	75	5	ND
Soluble Chromium	mg/kg	60	5	ND
Soluble Lead	mg/kg	90	10	ND
Soluble Mercury	mg/kg	60	5	ND
Soluble Selenium	mg/kg	500	10	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

The analytical results were adjusted by subtracting analytical correction factor.

* On the initial analysis for soluble heavy metals content, any tested component of greater than the set limit, the result is inconclusive for the requirement and therefore were retested with soluble heavy metals analysis of ASTM F963-17, Sections 8.3.2 to 8.3.5 as specified in Section 8.3.1.3. The result herein is for reference only (show data), please refer to soluble heavy metals content analysis for the corresponding conclusive results.

END OF THE REPORT