



CONSUMER PRODUCTS SERVICES DIVISION

### BTL DIFFUSION

**Technical Report:** (9024)221-0124(Revision)  
Date Received: JUN 28, 2024  
Date of Revision: AUG 15, 2024

AUG 08, 2024  
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BTL DIFFUSION  
16, RUE ANATOLE MOUSSU - ZA MÉRÉ NORD EST 78490  
MÉRÉ, FRANCE

Sample Description: WOODEN MEDALLION KEEPSAKE/2 MAGNETIC KEEPSAKES/  
PETIT ARTICHAUT HAND PAINTS/CLASSIC FRAME - DAISY OCHRE/  
CLASSIC FRAME - IVY GREY/PRINT BOX - PRETTY HEARTS/  
PRINT BOX - RAINBOW/2 PRINTS FRAME - BLUE ABSTRACT/  
2 PRINTS FRAME - RAINBOW TERRACOTTA/DOUBLE FRAME - PRETTY HEARTS/  
DOUBLE FRAME - OLIVE TREE/DUO FRAME - PRETTY HEARTS/  
DUO FRAME - DAISY OCHRE/PUZZLE FRAME - OLIVE TREE  
PUZZLE FRAME - IVY GREY/ MY FIRST YEAR

Vendor: N/A Sample Size: N/A  
Buyer: N/A Style No(s): PA1000/PA1100/PA1200  
/PA1502/PA1506/PA160  
1/PA1605/PA1704/  
PA1705/PA1801/PA1803  
/PA1901/PA1902/PA200  
3/PA2006/PA2100

Manufacturer: N/A SKN/SKU No.: N/A  
Labeled Age Grade: NOT PRESENT PO No.: N/A  
Appropriate Age Grade: NOT REQUESTED Ref #: N/A  
Client Specified Age: N/A Assortment No.: N/A  
Grade:  
Tested Age Grade: N/A Country of Destination: N/A  
Country of Origin: CHINA Color: N/A  
UPC Code: N/A

#### EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- As specified by client, to determine the Lead content in the submitted sample(s) in accordance with Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment Title 1 section 101- Children's products containing lead; lead paint rule.\*
- As specified by client, to determine the Lead content in the submitted sample(s) in accordance with California "Proposition 65".\*
- As specified by client, to determine the Total Lead content in the submitted sample(s) in accordance with Canada Consumer Product Safety Act : Consumer Products Containing Lead Regulations SOR/2018-83.\*
- As specified by client, to determine the Total Lead content in the submitted sample(s) in accordance with Canada Surface coating materials regulations (SOR/2016-193&SOR/2022-122).\*
- As specified by client, to determine the Total Lead content in the submitted sample(s) in accordance with 16 CFR 1303.\*
- As specified by client, to determine the Total Lead content in the submitted sample(s) in accordance with ASTM F963-23 Standard Consumer Safety Specification for Toy Safety.\*

C/N QD/FIDNA/AZ

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**EXECUTIVE SUMMARY:**

The sample(s) MEETS the following requirement(s):

- As specified by client, to determine the Cadmium content in the submitted sample(s) in accordance with Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006.\*
- As specified by client, to determine the PAHs content in the submitted sample(s) in accordance with Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013.\*
- As specified by client, to determine the Bisphenol A (BPA) content in the submitted sample(s).\*
- As specified by client, to determine the DEHP、DBP、BBP、DINP、DIBP、DPENP、DHEXP and DCHP content in the submitted sample(s) in accordance with Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment & 16 CFR Part 1307-Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates.\*
- As specified by client, to determine the DBP、BBP、DEHP、DIDP、DNHP and DINP content in the submitted sample(s) in accordance with California "Proposition 65".\*
- As specified by client, to determine the DEHP、DBP、BBP、DIBP、DINP、DIDP and DNOP content in the submitted sample(s) in accordance with Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.\*
- As specified by client, to determine the DEHP content in the submitted sample(s) in accordance with Australia Competition and Consumer Act 2010 in children's products - Consumer Protection Notice No. 11 of 2011.\*
- As specified by client, to determine the Phthalates content in the submitted sample(s).\*
- As specified by client, to determine the Short Chain Chlorinated Paraffin Content in the submitted sample(s) in accordance with the Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021.\*
- As specified by client, to determine the Pentachlorophenol (PCP) content in the submitted sample(s) in accordance with the Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021 and its amendment Directive (EU) 2021/277.\*
- As specified by client, to determine Total Lead content in the submitted sample(s) in accordance with Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006.\*

The sample(s) was tested to the following requirement(s) and the data provided is for informational purposes only:

- As specified by client, to determine the Formaldehyde content in the submitted sample(s).\*

**Note:**

- 1.As specified by client, to determine the DEHP、DBP、BBP、DINP、DIDP and DNOP content in the submitted sample(s) in accordance with Canada Consumer Product Safety Act : Phthalates Regulations (SOR/2016-188) was not applicable.
- 2.With the client's prior consent, \* was subcontracted test item.
3. This report is amendment of and supersedes the previous (9024)221-0124 dated AUG 08, 2024.

Revision reason: As per client's request, modified the Style No and the Sample Description in the revised report.



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**BVCPS (SHANGHAI)-QINGDAO BRANCH CONTACT INFORMATION FOR THIS REPORT**

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**BUREAU VERITAS  
CONSUMER PRODUCTS SERVICE DIVISION (SHANGHAI)-QINGDAO  
BRANCH**

A handwritten signature in black ink that reads 'Anderson Zhang'.

ANDERSON ZHANG  
MANAGER- HARDLINE & TOY OPERATION



**RESULTS:**

**Specimen Description:**

No.	Test part(s) name
1	Beige/black coating on paper
2	Multi-color coating on paper
3	Off white/grey coating, back
4	Green/white coating, back
5	Yellow/white coating, back
6	Pink/white coating, back
7	Light blue/white coating, back
8	Creamy white/black coating, back
9	Transparent plastic, body
10	Translucent plastic, snap joint
11	Transparent glass, body
12	Silvery metal, screw
13	Silvery metal, pothook
14	Matte silvery metal, rivet
15	Silvery metal, fixed nail
16	Silvery metal, flip card
17	Natural color wood, frame
18	Brown chipboard, frame
19	Brown chipboard, back
20	Dark brown chipboard with coating, back
21	Beige/brown paper, frame
22	Transparent double faced adhesive tape
23	Transparent soft plastic with black ink
24	White plastic, accessory
25	Golden metal, triangle ring
26	Golden metal, fixed sheet
27	Golden metal, screw



**RESULTS:**

No.	Test part(s) name
28	Natural color wood
29	Black magnetic rubber with adhesive



**RESULTS:**

**Results:**

**(1) Total lead content - Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment  
 Title 1 section 101**

Total Lead (Pb) Content in Surface Coating

Test Method: CPSC-CH-E1003-09.1

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				1+2	3+4+5	6+7+8
Lead(Pb)	mg/kg	10	90	N.D.	N.D.	N.D.

Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method: CPSC-CH-E1002-08.3& CPSC-CH-E1001-08.3

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				9+10	11	12+13+14
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)		
				15+16	22	23
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)		
				24	25	26
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.



**RESULTS:**

Test item(s)	Unit	MDL	Limit	Result(s)	
				27	29
Lead(Pb)	mg/kg	10	100	N.D.	N.D.

**(2) Total lead content - California "Proposition 65"**

Total Lead (Pb) Content in Surface Coating

Test Method: CPSC-CH-E1003-09.1

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				1+2	3+4+5	6+7+8
Lead(Pb)	mg/kg	10	90	N.D.	N.D.	N.D.

Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method: CPSC-CH-E1002-08.3& CPSC-CH-E1001-08.3

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				9+10	11	12+13+14
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)		
				15+16	22	23
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)		
				24	25	26
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.



**RESULTS:**

Test item(s)	Unit	MDL	Limit	Result(s)	
				27	29
Lead(Pb)	mg/kg	10	100	N.D.	N.D.

**(3) Total Lead content - Consumer Products Containing Lead Regulations SOR/2018-83**

Test method: With reference to Method C02.3.2:2021 & C02.2.2:2020 & C02.4:2022

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				1+2	3+4+5	6+7+8
Total Lead(Pb)	mg/kg	10	90	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)		
				9+10	11	12+13+14
Total Lead(Pb)	mg/kg	10	90	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)		
				15+16	22	23
Total Lead(Pb)	mg/kg	10	90	N.D.	N.D.	N.D.

**(4) Total Lead content - Canada Surface coating materials regulations(SOR/2016-193&SOR/2022-122)**

Test Method: With reference to Method C02.2.2:2020

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				1+2	3+4+5	6+7+8
Lead(Pb)	mg/kg	10	90	N.D.	N.D.	N.D.



**RESULTS:**

**(5) Total lead content - 16 CFR 1303**

Total Lead (Pb) Content in Surface Coating

Test Method: CPSC-CH-E1003-09.1

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				1+2	3+4+5	6+7+8
Lead(Pb)	mg/kg	10	90	N.D.	N.D.	N.D.

**(6) Total lead content - ASTM F963-23 Standard Consumer Safety Specification for Toy Safety**

Total Lead (Pb) Content in Surface Coating

Test Method: CPSC-CH-E1003-09.1

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				1+2	3+4+5	6+7+8
Lead(Pb)	mg/kg	10	90	N.D.	N.D.	N.D.

Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method: CPSC-CH-E1002-08.3& CPSC-CH-E1001-08.3

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				9+10	11	12+13+14
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)		
				15+16	22	23
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.



**RESULTS:**

Test item(s)	Unit	MDL	Limit	Result(s)		
				24	25	26
Lead(Pb)	mg/kg	10	100	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)	
				27	29
Lead(Pb)	mg/kg	10	100	N.D.	N.D.

**(7) Total Cadmium content- Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006**

Test Method: IEC 62321-5: 2013

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				9+10	22	23	24
Cadmium(Cd)	mg/kg	5	Refer to Remark	N.D.	N.D.	N.D.	N.D.

Remark:

Category	Limit (mg/kg)
Paints with code[3208]and [3209]	100
Paints with code[3208]and [3209] with a zinc content exceeding 10% by weight of the paint	1000
Painted article	1000
Plastic	100
Metal parts of jewelry & hair accessories	100

**(8) PAHs content- Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013.**

Test Method: With reference to AfPS-GS-2019-01: PAK

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)



**RESULTS:**

No.	Test item(s)	CAS No	Unit	MDL	Result(s)	
					3+4+5	6+7+8
1	Benzo (a)anthracene (BaA)	56-55-3	mg/kg	0.2	N.D.	N.D.
2	Chrysene (CHR)	218-01-9	mg/kg	0.2	N.D.	N.D.
3	Benzo (b) fluoranthene (BbFA)	205-99-2	mg/kg	0.2	N.D.	N.D.
4	Benzo (k) fluoranthene (BkFA)	207-08-9	mg/kg	0.2	N.D.	N.D.
5	Benzo (j) fluoranthene (BjFA)	205-82-3	mg/kg	0.2	N.D.	N.D.
6	Benzo (e) pyrene (BeP)	192-97-2	mg/kg	0.2	N.D.	N.D.
7	Benzo (a) pyrene (BaP)	50-32-8	mg/kg	0.2	N.D.	N.D.
8	Dibenzo (a,h) anthracene (DBAhA)	53-70-3	mg/kg	0.2	N.D.	N.D.

No.	Test item(s)	CAS No	Unit	MDL	Result(s)	
					9+10	22
1	Benzo (a)anthracene (BaA)	56-55-3	mg/kg	0.2	N.D.	N.D.
2	Chrysene (CHR)	218-01-9	mg/kg	0.2	N.D.	N.D.
3	Benzo (b) fluoranthene (BbFA)	205-99-2	mg/kg	0.2	N.D.	N.D.
4	Benzo (k) fluoranthene (BkFA)	207-08-9	mg/kg	0.2	N.D.	N.D.
5	Benzo (j) fluoranthene (BjFA)	205-82-3	mg/kg	0.2	N.D.	N.D.
6	Benzo (e) pyrene (BeP)	192-97-2	mg/kg	0.2	N.D.	N.D.
7	Benzo (a) pyrene (BaP)	50-32-8	mg/kg	0.2	N.D.	N.D.
8	Dibenzo (a,h) anthracene (DBAhA)	53-70-3	mg/kg	0.2	N.D.	N.D.

No.	Test item(s)	CAS No	Unit	MDL	Result(s)
					24
1	Benzo (a)anthracene (BaA)	56-55-3	mg/kg	0.2	N.D.
2	Chrysene (CHR)	218-01-9	mg/kg	0.2	N.D.
3	Benzo (b) fluoranthene (BbFA)	205-99-2	mg/kg	0.2	N.D.



**RESULTS:**

No.	Test item(s)	CAS No	Unit	MDL	Result(s)
					24
4	Benzo (k) fluoranthene (BkFA)	207-08-9	mg/kg	0.2	N.D.
5	Benzo (j) fluoranthene (BjFA)	205-82-3	mg/kg	0.2	N.D.
6	Benzo (e) pyrene (BeP)	192-97-2	mg/kg	0.2	N.D.
7	Benzo (a) pyrene (BaP)	50-32-8	mg/kg	0.2	N.D.
8	Dibenzo (a,h) anthracene (DBAhA)	53-70-3	mg/kg	0.2	N.D.

**Remark:**

(1) (EU) No 1272/2013 amending Item No 50 of Annex XVII of REACH Regulation (EC) 1907/2006

Parameter (mg/kg)	Category 1	Category 2
	Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use Such articles include amongst others: - sport equipment such as bicycles, golf clubs, racquets. - household utensils, trolleys, walking frames - tools for domestic use - clothing, footwear, gloves and sportswear - watch-straps, wrist-bands, masks, head-bands	Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use,
Benzo[a]pyrene	<1	<0.5
Benzo[e]pyrene	<1	<0.5
Benzo[a]anthracene	<1	<0.5
Benzo[b]fluoranthene	<1	<0.5
Benzo[j]fluoranthene	<1	<0.5
Benzo[k]fluoranthene	<1	<0.5
Chrysene	<1	<0.5
Dibenzo[a,h]anthracene	<1	<0.5

- The PAHs limit is Category 1

**(9) Bisphenol A (BPA) content**

Test Method: In-house Method

Test Instrument: High Performance Liquid Chromatography (HPLC)

Test item(s)	Unit	MDL	Client Limit	Result(s)
				9
Bisphenol A (BPA)	mg/kg	0.1	0.1	N.D.



**RESULTS:**

**(10) Phthalates content- Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment & 16 CFR Part 1307-Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates.**

Test Method: CPSC-CH-C1001-09.4

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					9+10	22
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	1000	N.D.	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0 68515-48-0	mg/kg	100	1000	N.D.	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	50	1000	N.D.	N.D.
Di-n-pentyl Phthalate (DPENP)	131-18-0	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl Phthalate (DHEXP)	84-75-3	mg/kg	50	1000	N.D.	N.D.
Dicyclohexyl Phthalate (DCHP)	84-61-7	mg/kg	50	1000	N.D.	N.D.



**RESULTS:**

Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					23	24
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	1000	N.D.	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg	50	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0 68515-48-0	mg/kg	100	1000	N.D.	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	50	1000	N.D.	N.D.
Di-n-pentyl Phthalate (DPENP)	131-18-0	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl Phthalate (DHEXP)	84-75-3	mg/kg	50	1000	N.D.	N.D.
Dicyclohexyl Phthalate (DCHP)	84-61-7	mg/kg	50	1000	N.D.	N.D.

**(11) Phthalates content- California “Proposition 65”.**

Test Method: CPSC-CH-C1001-09.4

Test Instrument: Gas Chromatography - Mass Spectrometer (GC-MS)

Test item(s)	Unit	MDL	Limit	Result(s)	
				9+10	22
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.
Benzyl butyl phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	mg/kg	50	1000	N.D.	N.D.
Diisodecyl phthalate (DIDP)	mg/kg	100	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	mg/kg	100	1000	N.D.	N.D.



**RESULTS:**

Test item(s)	Unit	MDL	Limit	Result(s)	
				23	24
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.
Benzyl butyl phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	mg/kg	50	1000	N.D.	N.D.
Diisodecyl phthalate (DIDP)	mg/kg	100	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	mg/kg	100	1000	N.D.	N.D.

**(12) Phthalates content- Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006**

Test Method: With reference to EN 14372:2004(E)

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	Unit	MDL	Limit	Result(s)	
				9+10	22
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	50	1000	N.D.	N.D.
Total(DEHP+ DBP+BBP+ DIBP)	mg/kg	/	1000	N.D.	N.D.
Diisononyl Phthalate (DINP)	mg/kg	100	/	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	100	/	N.D.	N.D.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	/	N.D.	N.D.
Total(DINP+ DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.



**RESULTS:**

Test item(s)	Unit	MDL	Limit	Result(s)	
				23	24
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	50	1000	N.D.	N.D.
Total(DEHP+ DBP+BBP+ DIBP)	mg/kg	/	1000	N.D.	N.D.
Diisononyl Phthalate (DINP)	mg/kg	100	/	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	100	/	N.D.	N.D.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	/	N.D.	N.D.
Total(DINP+ DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.

**(13) Phthalates content- Canada Consumer Product Safety Act : Phthalates Regulations (SOR/2016-188)**

Test Method: Health Canada Method C34:2018

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	Unit	MDL	Limit	Result(s)
				-
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.A.
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.A.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.A.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	1000	N.A.
Diisononyl Phthalate (DINP)	mg/kg	100	1000	N.A.
Diisodecyl Phthalate (DIDP)	mg/kg	100	1000	N.A.

Note: No PVC materials presented on the received sample(s). Therefore, the phthalates content analysis of PVC materials according to Canada Consumer Product Safety Act, Phthalate Regulations, SOR/2016-188, was not conducted.



**RESULTS:**

**(14) Phthalates content- Australia Competition and Consumer Act 2010 in children's products - Consumer Protection Notice No. 11 of 2011**

Test Method: With reference to EN 14372:2004

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					9+10	22
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	10000	N.D.	N.D.

Test item(s)	CAS No.	Unit	MDL	Limit	Result(s)	
					23	
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	50	10000	N.D.	

**(15) Phthalates content**

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

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	CAS No.	Unit	MDL	Client Limit	Result(s)	
					9+10	22
Benzyl butyl phthalate(BBP)	85-68-7	mg/kg	50	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	1000	N.D.	N.D.
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	mg/kg	50	1000	N.D.	N.D.
Diisobutyl phthalate(DIBP)	84-69-5	mg/kg	50	1000	N.D.	N.D.
Di(2-methoxyethy) phthalate (DMEP)	117-82-8	mg/kg	50	1000	N.D.	N.D.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear(DPP)	131-18-0	mg/kg	50	1000	N.D.	N.D.
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	mg/kg	50	1000	N.D.	N.D.
n-Pentyl –isopentylphthalate(nPiPP)	776297-69-9	mg/kg	50	1000	N.D.	N.D.
Diisopentyl phthalate(DIPP)	605-50-5	mg/kg	50	1000	N.D.	N.D.
1,2-Benzenedicarboxylic acid, dipentylester branched and linear	84777-06-0	mg/kg	50	1000	N.D.	N.D.



**RESULTS:**

Test item(s)	CAS No.	Unit	MDL	Client Limit	Result(s)	
					9+10	22
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	mg/kg	50	1000	N.D.	N.D.
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl Phthalate(DHP)	84-75-3	mg/kg	50	1000	N.D.	N.D.
1,2-benzenedicarboxylic acid, diC6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥0.3% of dihexyl phthalate (EC No.201-559-5)	68515-51-5 68648-93-1	mg/kg	50	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0	mg/kg	50	1000	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	26761-40-0	mg/kg	50	1000	N.D.	N.D.
Di-n-octyl Phthalate(DNOP)	117-84-0	mg/kg	50	1000	N.D.	N.D.
Diethyl Phthalate(DEP)	84-66-2	mg/kg	50	1000	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	mg/kg	50	1000	N.D.	N.D.

Test item(s)	CAS No.	Unit	MDL	Client Limit	Result(s)	
					23	24
Benzyl butyl phthalate(BBP)	85-68-7	mg/kg	50	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	84-74-2	mg/kg	50	1000	N.D.	N.D.
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	mg/kg	50	1000	N.D.	N.D.
Diisobutyl phthalate(DIBP)	84-69-5	mg/kg	50	1000	N.D.	N.D.
Di(2-methoxyethy) phthalate (DMEP)	117-82-8	mg/kg	50	1000	N.D.	N.D.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear(DPP)	131-18-0	mg/kg	50	1000	N.D.	N.D.
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	mg/kg	50	1000	N.D.	N.D.
n-Pentyl –isopentylphthalate(nPiPP)	776297-69-	mg/kg	50	1000	N.D.	N.D.



**RESULTS:**

Test item(s)	CAS No.	Unit	MDL	Client Limit	Result(s)	
					23	24
	9					
Diisopentyl phthalate(DIPP)	605-50-5	mg/kg	50	1000	N.D.	N.D.
1,2-Benzenedicarboxylic acid, dipentylester branched and linear	84777-06-0	mg/kg	50	1000	N.D.	N.D.
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	mg/kg	50	1000	N.D.	N.D.
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	mg/kg	50	1000	N.D.	N.D.
Di-n-hexyl Phthalate(DHP)	84-75-3	mg/kg	50	1000	N.D.	N.D.
1,2-benzenedicarboxylic acid, diC6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥0.3% of dihexyl phthalate (EC No.201-559-5)	68515-51-5 68648-93-1	mg/kg	50	1000	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0	mg/kg	50	1000	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	26761-40-0	mg/kg	50	1000	N.D.	N.D.
Di-n-octyl Phthalate(DNOP)	117-84-0	mg/kg	50	1000	N.D.	N.D.
Diethyl Phthalate(DEP)	84-66-2	mg/kg	50	1000	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	mg/kg	50	1000	N.D.	N.D.

**(16) Short Chain Chlorinated Paraffin content - the Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021.**

Test Method: In-house method

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	Unit	MDL	Limit	Result(s)	
				9+10	22
Short Chain Chlorinated Paraffin (SCCP)	mg/kg	50	1500	N.D.	N.D.

**(17) Formaldehyde content**

Test Method: With reference to EN 717-3: 1996

Test Instrument: Ultraviolet and Visible Spectrophotometer(UV-Vis)



**RESULTS:**

Test item(s)	Unit	MDL	Result(s)		
			17	18	19
Formaldehyde	mg/kg	5	N.D.	N.D.	N.D.
Moisture Content	%	/	10.36	10.30	11.44

Test item(s)	Unit	MDL	Result(s)	
			20	28
Formaldehyde	mg/kg	5	58	N.D.
Moisture Content	%	/	10.04	9.81

**(18) Pentachlorophenol(PCP) content - the Persistent Organic Pollutants (POPs) Regulation (EU) 2019/1021 and its amendment Directive (EU) 2021/277.**

Test Method: In-house Method

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	Unit	MDL	Limit	Result(s)	
				17	18
Pentachlorophenol(PCP)	mg/kg	0.1	5	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)	
				21	28
Pentachlorophenol(PCP)	mg/kg	0.1	5	N.D.	N.D.

**(19) Total lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006**

Test Method: IEC 62321-5: 2013

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

Test item(s)	Unit	MDL	Limit	Result(s)		
				24	25	26
Lead(Pb)	mg/kg	10	500	N.D.	N.D.	N.D.



**RESULTS:**

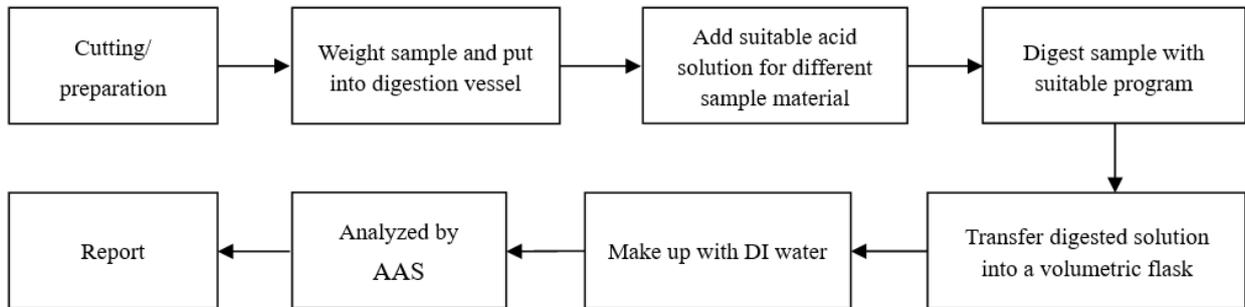
Test item(s)	Unit	MDL	Limit	Result(s)	
				27	29
Lead(Pb)	mg/kg	10	500	N.D.	N.D.

**Note:**

- mg/kg=milligram per kilogram
- N.D. =Not Detected (<MDL)
- N.A. = Not Applicable
- MDL=Method Detection Limit
- As specified by client, the mixed testing were conducted.
- As specified by client, only above test part(s) were analyzed.

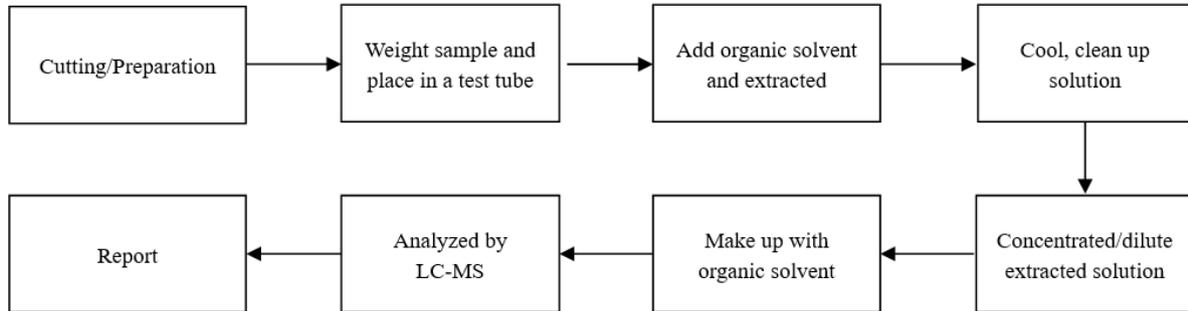
**Appendix**

**1. Test flowchart for Pb/Cd content:**

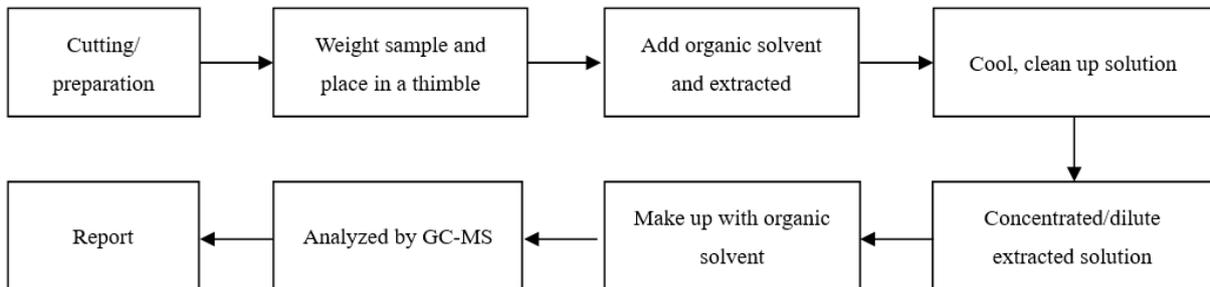


**RESULTS:**

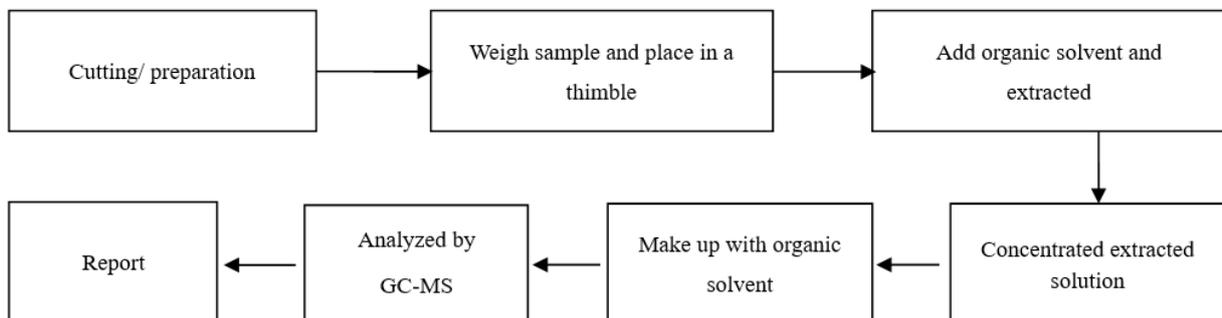
**2. Test flowchart for BPA content:**



**3. Test flowchart for Phthalates/ PAHs content:**

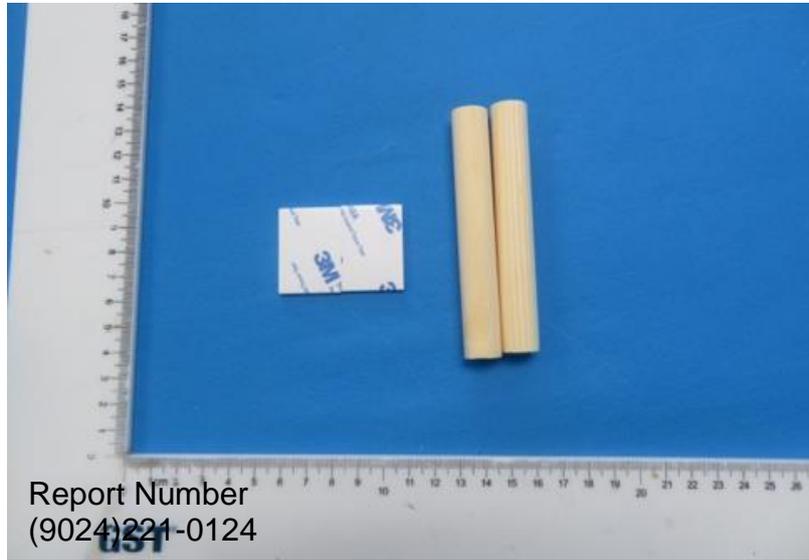


**4. Test flowchart for SCCP content:**



**RESULTS:**

**EXHIBIT # 1**



**EXHIBIT # 2**



**RESULTS:**

**EXHIBIT # 3**



**EXHIBIT # 4**



**RESULTS:**

**EXHIBIT # 5**



**EXHIBIT # 6**

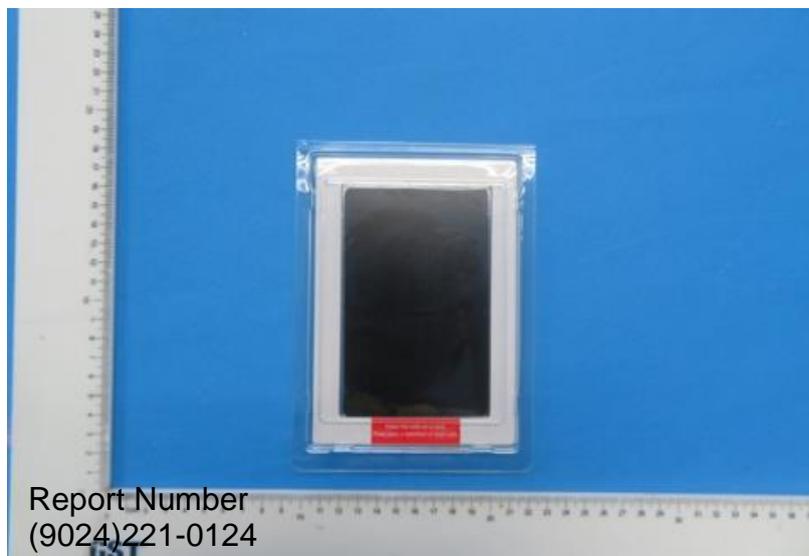


**RESULTS:**

**EXHIBIT # 7**

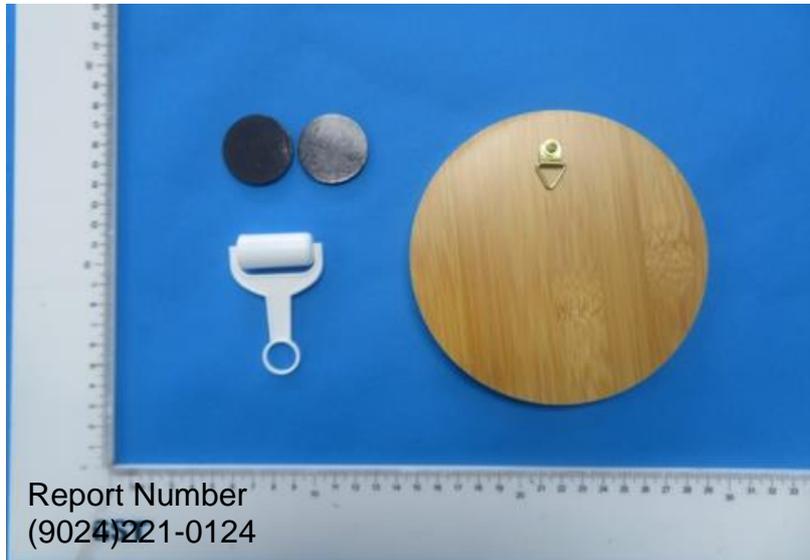


**EXHIBIT # 8**



**RESULTS:**

**EXHIBIT # 9**



End of report