TEST REPORT

HAPE INTERNATIONAL (NINGBO) LTD. / HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD

Technical Report: **(3225)255-0300** Sep.22,2025

Date of Received: Sep.12,2025

Test period Sep.12,2025-Sep.22,2025

ANNAHE/XIJIEJIE

HAPE INTERNATIONAL (NINGBO) LTD. / HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD

9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

SAMPLE INFORMATION:

Sample Description:	ICE CUBE SQUISH DIAMOND SQUISH BALLS HEAVY GUMDROP GRADIENT SQUISHY WATER GLITTER SQUISH BALL	**Sample Quantity:**	N/A
Vendor:	N/A	**Style No(s):**	852421 （852422,852423,852424,852425,852426） 852434 （852435,852436,852437,852438,852439） 852441 （852442,852443,852444,852445） 852446 （852447,852448,852449,852451,852452） 852427 （852428,852429,852431,852432,852433）
Manufacturer:	N/A	**SKN/SKU No.:**	N/A
Buyer:	N/A	**PO No.:**	N/A
Labeled Age Grade:	3Y+	**Ref #:**	N/A
Appropriate Age Grade:	N/A	**Country of Origin:**	CHINA
Client Specified Age Grade:	N/A	**Assortment No.:**	N/A
Tested Age Grade:	N/A	**Country of Destination:**	GLOBAL
UPC Code:	N/A	**Color :**	N/A

EXECUTIVE SUMMARY:

TEST REQUESTED	CONCLUSION
Polycyclic Aromatic Hydrocarbons (PAHs) Content – Regulation (EC) No. 1907/2006 Annex XVII Entry 50, Point 5	PASS
Phthalates Content – Reference to regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52	PASS
Phthalates Content in Children`s Toys and Child Care Articles - United States Code of Federal Regulations (CFR), Title 16, Part 1307	PASS
Soluble heavy metals Content-GB 6675.4-2014	PASS
Total Cadmium Content in Plastic Material - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Entry 23	PASS
GB6675.1-2014-Phthalates	PASS

Bureau Veritas Testing Technical Service (Zhejiang) Co.,Ltd
1F, 6/F east, 7F east, 8F, Building 9, No.667 Qingyi Road, Yinzhou Sub-district, High-tech Zone, Ningbo, Zhejiang, China
Tel:86-574-87991333, Fax:86-574-87971038
website:cps.bureauveritas.com

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Polycyclic Aromatic Hydrocarbons (PAHs) Content - AfPS GS 2019:01 PAK & As Applicant’s requirement	PASS
Migration of Certain Elements - Australian/New Zealand Standard AS/NZS ISO 8124.3:2021+Amd.1:2023	PASS
Soluble Heavy Metals Content in Substrate - ASTM International Standard ASTM F963-23, Section 4.3.5.2(2)(b)	PASS
Migration of Certain Elements - EN 71-3:2019+A2:2024	PASS

Remark:The testing project is solely for internal use and serves as a reference only. It does not carry any evidentiary weight for society.

BVCPS (ZHEJIANG) GENERAL CONTACT INFORMATION FOR THIS REPORT

TELEPHONE NO. : 86-574-87091375 / 87091399
E-MAIL : lilyli.li@bureauveritas.com;amy.pan@bureauveritas.com

Bureau Veritas Testing Technical Service (Zhejiang) Co., Ltd

Kobe Chen
Chemical Supervisor

Tested Component(s) Breakdown List

Test Item	Description	Location	Style
1	Transparent soft plastic	-	852421/852434/852446/852427
2	Pink transparent soft plastic	-	852421
3	Yellow transparent soft plastic	-	852421
4	Orange transparent soft plastic	-	852421
5	Blue transparent soft plastic	-	852421
6	pink Translucent soft plastic	-	852441
7	purple Translucent soft plastic	-	852441
8	blue Translucent soft plastic	-	852441
9	orange Translucent soft plastic	-	852441
10	Rose/ purple soft plastic	-	852446
11	Rose/ orange soft plastic	-	852446
12	Blue/ yellow soft plastic	-	852446
13	White/ deep blue/ yellow soft plastic	-	852446
14	Grey/ white soft plastic	-	852446
15	Green iridescent soft plastic	Inner	852434
16	Purple iridescent soft plastic	Inner	852434
17	Blue iridescent soft plastic	Inner	852434
18	Rose iridescent soft plastic	Inner	852434
19	Orange iridescent soft plastic	Inner	852434
20	White soft plastic	Inner	852446
21	Iridescent soft plastic	Inner	852427
22	Transparent liquid	Inner	852427
23	orange Transparent liquid	Inner	852427
24	purple Transparent liquid	Inner	852427
25	blue Transparent liquid	Inner	852427
26	green Transparent liquid	Inner	852427
27	transparent maltose	Inner	852421/852434/852441

Polycyclic Aromatic Hydrocarbons (PAHs) Content – Regulation (EC) No. 1907/2006 Annex XVII Entry 50, Point 5

Test Method : With reference to test method mentioned in German AfPS GS 2019:01 PAK.

Parameter	Unit	Result				Maximum Allowable Limit
		1 + 2	3 + 4	5 + 6	7 + 8	
Benzo (a) anthracene	mg/kg	ND	ND	ND	ND	0.5
Chrysene	mg/kg	ND	ND	ND	ND	0.5
Benzo (b) fluoranthene	mg/kg	ND	ND	ND	ND	0.5
Benzo (j) fluoranthene	mg/kg	ND	ND	ND	ND	0.5
Benzo (k) fluoranthene	mg/kg	ND	ND	ND	ND	0.5

Benzo (e) pyrene	mg/kg	ND	ND	ND	ND	0.5
Benzo (a) pyrene	mg/kg	ND	ND	ND	ND	0.5
Dibenzo (a,h) anthracene	mg/kg	ND	ND	ND	ND	0.5
Conclusion	-	PASS	PASS	PASS	PASS	-

Parameter	**Unit**	**Result**			**Maximum Allowable Limit**
		9 + 10	11 + 12	13 + 14	
Benzo (a) anthracene	mg/kg	ND	ND	ND	0.5
Chrysene	mg/kg	ND	ND	ND	0.5
Benzo (b) fluoranthene	mg/kg	ND	ND	ND	0.5
Benzo (j) fluoranthene	mg/kg	ND	ND	ND	0.5
Benzo (k) fluoranthene	mg/kg	ND	ND	ND	0.5
Benzo (e) pyrene	mg/kg	ND	ND	ND	0.5
Benzo (a) pyrene	mg/kg	ND	ND	ND	0.5
Dibenzo (a,h) anthracene	mg/kg	ND	ND	ND	0.5
Conclusion	-	PASS	PASS	PASS	-

Note / Key :
ND = Not detected
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit (mg/kg): For individual testing - Each of the listed PAHs(mg/kg) : 0.2
For composite testing - Each of the listed PAHs(mg/kg) : 0.1

Phthalates Content – Reference to regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52

Test Method : Reference to EN 14372:2004.

Parameter	**CAS No.**	**Unit**	**Maximum Allowable Limit**	**Result**			
	-	-	-	1 + 2 + 3	4 + 5 + 6	7 + 8 + 9	10 + 11
A. For toys and childcare articles							
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DiBP	84-69-5	%	<0.1	ND	ND	ND	ND
B. Additional requirements for toys and childcare articles, which can be placed in mouth by the children (See remark)							
DnOP	117-84-0	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0&68515-48-0	%	<0.1	ND	ND	ND	ND
DIDP	26761-40-0 & 68515-49-1	%	<0.1	ND	ND	ND	ND
Sum of DBP, BBP,		%	<0.1	ND	ND	ND	ND

DEHP, DIBP							
Sum of DNOP, DIDP, DINP		%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	**CAS No.**	**Unit**	**Maximum Allowable Limit**	**Result**			
	-	-	-	12 + 14	13	15	16
A. For toys and childcare articles							
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DiBP	84-69-5	%	<0.1	ND	ND	ND	ND
B. Additional requirements for toys and childcare articles, which can be placed in mouth by the children (See remark)							
DnOP	117-84-0	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0&68515-48-0	%	<0.1	ND	ND	ND	ND
DIDP	26761-40-0 & 68515-49-1	%	<0.1	ND	ND	ND	ND
Sum of DBP, BBP, DEHP, DIBP		%	<0.1	ND	ND	ND	ND
Sum of DNOP, DIDP, DINP		%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	**CAS No.**	**Unit**	**Maximum Allowable Limit**	**Result**			
	-	-	-	17	18	19	20
A. For toys and childcare articles							
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DiBP	84-69-5	%	<0.1	ND	ND	ND	ND
B. Additional requirements for toys and childcare articles, which can be placed in mouth by the children (See remark)							
DnOP	117-84-0	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0&68515-48-0	%	<0.1	ND	ND	ND	ND
DIDP	26761-40-0 & 68515-49-1	%	<0.1	ND	ND	ND	ND
Sum of DBP, BBP, DEHP, DIBP		%	<0.1	ND	ND	ND	ND
Sum of DNOP, DIDP, DINP		%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	Maximum Allowable Limit	Result			
	-	-	-	21	22 + 23 + 24	25 + 26	27
A. For toys and childcare articles							
DBP	84-74-2	%	<0.1	ND	ND	ND	ND
BBP	85-68-7	%	<0.1	ND	ND	ND	ND
DEHP	117-81-7	%	<0.1	ND	ND	ND	ND
DiBP	84-69-5	%	<0.1	ND	ND	ND	ND
B. Additional requirements for toys and childcare articles, which can be placed in mouth by the children (See remark)							
DnOP	117-84-0	%	<0.1	ND	ND	ND	ND
DINP	28553-12-0&68515-48-0	%	<0.1	ND	ND	ND	ND
DIDP	26761-40-0 & 68515-49-1	%	<0.1	ND	ND	ND	ND
Sum of DBP, BBP, DEHP, DIBP		%	<0.1	ND	ND	ND	ND
Sum of DNOP, DIDP, DINP		%	<0.1	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Note / Key: ND = Not Detected Conc. = Concentration
Detection Limit (%): Each 0.005 % = percentage

Remark:

The list of phthalates is summarized in table of Appendix

List of Phthalates Content – Reference To Regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	DBP	84-74-2	5	DINP	28553-12-0&68515-48-0
2	BBP	85-68-7	6	DIDP	26761-40-0 & 68515-49-1
3	DEHP	117-81-7	7	DiBP	84-69-5
4	DnOP	117-84-0	-	-	-

Phthalates Content in Children`s Toys and Child Care Articles - United States Code of Federal Regulations (CFR), Title 16, Part 1307

Test Method : CPSC-CH-C1001-09.4

Maximum Limit:	Each 1000mg/kg

Test Item(s)	Result	Unit	Conclusion

	Detected Analyte(s)	Conc.		
1 + 2 + 3	ND	ND	%	PASS
4 + 5 + 6	ND	ND	%	PASS
7 + 8 + 9	ND	ND	%	PASS
10 + 11	ND	ND	%	PASS
12 + 14	ND	ND	%	PASS
13	ND	ND	%	PASS

Note / Key: ND = Not Detected Conc. = Concentration
Detection Limit (%): Each 0.005 % = percentage

Remark:
- The list of phthalates is summarized in table of Appendix.

List of Phthalates Content In Children`s Toys And Child Care Articles - United States Code Of Federal Regulations (CFR), Title 16, Part 1307					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	DBP	84-74-2	5	DHEXP	84-75-3
2	BBP	85-68-7	6	DiBP	84-69-5
3	DEHP	117-81-7	7	DPENP	131-18- 0
4	DINP	28553-12-0&68515-48-0	8	DCHP	84-61- 7

Soluble heavy metals Content-GB 6675.4-2014

Test Method:GB 6675.4-2014

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	
Limit: (mg/kg)	25	1000	75	60	60	90	60	500	

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Sample	Result (mg/kg)								
1	ND	ND	ND	ND	ND	ND	ND	ND	PASS
2	ND	ND	ND	ND	ND	ND	ND	ND	PASS
3	ND	ND	ND	ND	ND	ND	ND	ND	PASS
4	ND	ND	ND	ND	ND	ND	ND	ND	PASS
5	ND	ND	ND	ND	ND	ND	ND	ND	PASS
6	ND	ND	ND	ND	ND	ND	ND	ND	PASS
7	ND	ND	ND	ND	ND	ND	ND	ND	PASS
8	ND	ND	ND	ND	ND	ND	ND	ND	PASS
9	ND	ND	ND	ND	ND	ND	ND	ND	PASS
10	ND	ND	ND	ND	ND	ND	ND	ND	PASS
11	ND	ND	ND	ND	ND	ND	ND	ND	PASS
12	ND	ND	ND	ND	ND	ND	ND	ND	PASS
13	ND	ND	ND	ND	ND	ND	ND	ND	PASS
14	ND	ND	ND	ND	ND	ND	ND	ND	PASS

Note / Key: ND = Not detected
Detection Limit (mg/kg) :As: 2.5; Others(Ba, Cd , Cr, Hg,Pb, Sb & Se)：5

Total Cadmium Content in Plastic Material - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Entry 23

Test Method : EN 1122: 2001, Method B

Maximum Limit:	**100 mg/kg**

Test Item(s)	Result	Unit	Conclusion
1 + 2 + 3	ND	mg/kg	PASS
4 + 5 + 6	ND	mg/kg	PASS
7 + 8 + 9	ND	mg/kg	PASS
10 + 11	ND	mg/kg	PASS
12 + 14	ND	mg/kg	PASS
13	ND	mg/kg	PASS
15	ND	mg/kg	PASS
16	ND	mg/kg	PASS
17	ND	mg/kg	PASS
18	ND	mg/kg	PASS
19	ND	mg/kg	PASS
20	ND	mg/kg	PASS
21	ND	mg/kg	PASS

Note / Key:
mg/kg = milligram per kilogram
Detection Limit (mg/kg): 10
ND = Not Detected
MDL = Method Detection Limit

GB6675.1-2014-Phthalates

Test Method : With reference to GB/T 22048-2022 method C

Test Item（s）	CAS No.	Limit	Unit（s）	MDL	1+2+3	4+5+6	7+8+9
Dibutyl phthalate (DBP)	84-74-2	-	%	0.001	ND	ND	ND
Butylbenzylphthalate (BBP)	85-68-7	-	%	0.001	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	-	%	0.001	ND	ND	ND
Di-iso-nonyl phthalate (DINP)	28553-12-0&68515-48-0	-	%	0.005	ND	ND	ND
Di-n-Octyl Phthalate（DNOP）	117-84-0	-	%	0.001	ND	ND	ND
Diisodecyl Phthalate（DIDP）	26761-40-0 & 68515-49-1	-	%	0.005	ND	ND	ND
Total (DBP+BBP+DEHP)	-	0.1	%	-	ND	ND	ND
Total (DINP+DNOP+DIDP)	-	0.1	%	-	ND	ND	ND
Conclusion				-	PASS	PASS	PASS

Test Item（s）	CAS No.	Limit	Unit（s）	MDL	10+11	12+14	13
Dibutyl phthalate (DBP)	84-74-2	-	%	0.001	ND	ND	ND
Butylbenzylphthalate (BBP)	85-68-7	-	%	0.001	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	-	%	0.001	ND	ND	ND
Di-iso-nonyl phthalate (DINP)	28553-12-0&68515-48-0	-	%	0.005	ND	ND	ND
Di-n-Octyl Phthalate（DNOP）	117-84-0	-	%	0.001	ND	ND	ND
Diisodecyl Phthalate（DIDP）	26761-40-0 & 68515-49-1	-	%	0.005	ND	ND	ND
Total (DBP+BBP+DEHP)	-	0.1	%	-	ND	ND	ND
Total (DINP+DNOP+DIDP)	-	0.1	%	-	ND	ND	ND
Conclusion				-	PASS	PASS	PASS

Notes:
（1） External standard method is adopted for quantification
Remark:
Test was conducted on composite of random parts of the item as per client's request
Unless otherwise stated. the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule（w=0）stated in ILAC-G8:09/2019.

Polycyclic Aromatic Hydrocarbons (PAHs) Content - AfPS GS 2019:01 PAK & As Applicant's requirement

Test Method: With reference to test method mentioned in German AfPS GS 2019:01 PAK.

Type (See Comment for the List of Types)	I	IIa	IIb	IIIa	IIIb
Test Parameter(s)	Limit[a] (mg/kg)				
Each of Benzo (a) pyrene, Benzo (e) pyrene, Benzo (a) anthracene, Benzo (b) fluoranthene, Benzo (j) fluoranthene, Benzo (k) fluoranthene, Chrysene, Dibenzo (a,h) anthracene, Benzo (g,h,i) perylene and Indeno (1,2,3-cd) pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Sum of Phenanthrene, Pyrene, Anthracene and Fluoranthene	< 1	< 5	< 10	< 20	< 50
Naphthalene	< 1	< 2	< 2	< 10	< 10
Sum of all listed PAHs	< 1	< 5	< 10	< 20	< 50

Test Item(s)	Limit: Cat IIB	Result (mg/kg)		
		Sample ID		
		1 + 2	3 + 4	5 + 6
Naphthalene	2	ND	ND	ND
Phenanthrene	-	ND	ND	ND
Anthracene	-	ND	ND	ND
Fluoranthene	-	ND	ND	ND
Pyrene	-	ND	ND	ND
Benzo (a) anthracene	0.5	ND	ND	ND
Chrysene	0.5	ND	ND	ND

Benzo (b) fluoranthene	0.5	ND	ND	ND
Benzo (j) fluoranthene	0.5	ND	ND	ND
Benzo (k) fluoranthene	0.5	ND	ND	ND
Benzo (e) pyrene	0.5	ND	ND	ND
Benzo (a) pyrene	0.5	ND	ND	ND
Dibenzo (a,h) anthracene	0.5	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	0.5	ND	ND	ND
Benzo (g,h,i) perylene	0.5	ND	ND	ND
Sum of Phenanthrene, Pyrene, Anthracene and Fluoranthene	10	ND	ND	ND
Sum	10	ND	ND	ND
Conclusion		PASS	PASS	PASS

Test Item(s)	Limit: Cat IIB	Result (mg/kg)		
		Sample ID		
		7 + 8	9 + 10	11 + 12
Naphthalene	2	ND	ND	ND
Phenanthrene	-	ND	ND	ND
Anthracene	-	ND	ND	ND
Fluoranthene	-	ND	ND	ND
Pyrene	-	ND	ND	ND
Benzo (a) anthracene	0.5	ND	ND	ND
Chrysene	0.5	ND	ND	ND
Benzo (b) fluoranthene	0.5	ND	ND	ND
Benzo (j) fluoranthene	0.5	ND	ND	ND
Benzo (k) fluoranthene	0.5	ND	ND	ND
Benzo (e) pyrene	0.5	ND	ND	ND
Benzo (a) pyrene	0.5	ND	ND	ND
Dibenzo (a,h) anthracene	0.5	ND	ND	ND
Indeno (1,2,3-c,d) pyrene	0.5	ND	ND	ND
Benzo (g,h,i) perylene	0.5	ND	ND	ND
Sum of Phenanthrene, Pyrene, Anthracene and Fluoranthene	10	ND	ND	ND

Sum	10	ND	ND	ND
Conclusion		PASS	PASS	PASS

Test Item(s)	Limit: Cat IIB	Result (mg/kg)
		Sample ID
		13 + 14
Naphthalene	2	ND
Phenanthrene	-	ND
Anthracene	-	ND
Fluoranthene	-	ND
Pyrene	-	ND
Benzo (a) anthracene	0.5	ND
Chrysene	0.5	ND
Benzo (b) fluoranthene	0.5	ND
Benzo (j) fluoranthene	0.5	ND
Benzo (k) fluoranthene	0.5	ND
Benzo (e) pyrene	0.5	ND
Benzo (a) pyrene	0.5	ND
Dibenzo (a,h) anthracene	0.5	ND
Indeno (1,2,3-c,d) pyrene	0.5	ND
Benzo (g,h,i) perylene	0.5	ND
Sum of Phenanthrene, Pyrene, Anthracene and Fluoranthene	10	ND
Sum	10	ND
Conclusion		PASS

Note / Key :
ND = Not detected
AfPS = Ausschuss für Produktsicherheit = Product Safety Commission PAK = PAHs
GS = GS-Spezifikation = GS Specification
Detection Limit (mg/kg) - Each 0.2 ;

Remark:
The list of polycyclic aromatic hydrocarbons is summarized in table of Appendix.
Plasticized and rubberized prints, coatings and plastic materials of product are applicable to be tested.
[a] denotes as this (these) limit(s) applies to product(s) with GS-Mark dated on or after July 01, 2020.
Comment :
List of Types [Categories defined in German AfPS GS 2019:01 PAK] :
Category 1: Materials intended to be put in the mouth or materials in toys according to the toy directive 2009/48/EC, or materials in products for use of children up to three years with long-term intended skin contact (Longer than 30 seconds) according intended use I
Category 2: Materials not covered by Category 1, with long-term skin contact (Longer than 30 seconds) or repeated short-term skin contact according intended use or foreseeable use IIa[b] or IIb[c]
Category 3: Materials not covered by Category 1 or 2 with short term skin contact (Up to 30 seconds) according

intended use or foreseeable use IIIa[b] or IIIb[c]
[b] denotes as use by children before the age 14 with active and passive direct contact
[c] denotes as other consumer products

List of Polycyclic Aromatic Hydrocarbons (PAHs) Content - AfPS GS 2019:01 PAK & As Applicant's Requirement					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Naphthalene	91-20-3	9	Benzo (j) fluoranthene	205-82-3
2	Phenanthrene	85-01-8	10	Benzo (k) fluoranthene	207-08-9
3	Anthracene	120-12-7	11	Benzo (e) pyrene	192-97-2
4	Fluoranthene	206-44-0	12	Benzo (a) pyrene	50-32-8
5	Pyrene	129-00-0	13	Dibenzo (a,h) anthracene	53-70-3
6	Benzo (a) anthracene	56-55-3	14	Indeno (1,2,3-c,d) pyrene	193-39-5
7	Chrysene	218-01-9	15	Benzo (g,h,i) perylene	191-24-2
8	Benzo (b) fluoranthene	205-99-2	-	-	-

Migration of Certain Elements - Australian/New Zealand Standard AS/NZS ISO 8124.3:2021+Amd.1:2023

Test Method: Australian/New Zealand Standard AS/NZS ISO 8124.3:2021+Amd.1:2023

Test Item(s)	Limit:	Result (mg/kg)		
		Sample ID		
		1	2	3
Soluble Antimony (Sb)	60	ND	ND	ND
Soluble Arsenic (As)	25	ND	ND	ND
Soluble Barium (Ba)	1000	ND	ND	ND
Soluble Cadmium (Cd)	75	ND	ND	ND
Soluble Chromium (Cr)	60	ND	ND	ND
Soluble Lead (Pb)	90	ND	ND	ND
Soluble Mercury (Hg)	60	ND	ND	ND
Soluble Selenium (Se)	500	ND	ND	ND
Conclusion		PASS	PASS	PASS

Test Item(s)	Limit:	Result (mg/kg)		
		Sample ID		
		4	5	6
Soluble Antimony (Sb)	60	ND	ND	ND
Soluble Arsenic (As)	25	ND	ND	ND
Soluble Barium (Ba)	1000	ND	ND	ND
Soluble Cadmium (Cd)	75	ND	ND	ND
Soluble Chromium (Cr)	60	ND	ND	ND

Soluble Lead (Pb)	90	ND	ND	ND
Soluble Mercury (Hg)	60	ND	ND	ND
Soluble Selenium (Se)	500	ND	ND	ND
Conclusion		PASS	PASS	PASS

Test Item(s)	Limit:	Result (mg/kg)		
		Sample ID		
		7	8	9
Soluble Antimony (Sb)	60	ND	ND	ND
Soluble Arsenic (As)	25	ND	ND	ND
Soluble Barium (Ba)	1000	ND	ND	ND
Soluble Cadmium (Cd)	75	ND	ND	ND
Soluble Chromium (Cr)	60	ND	ND	ND
Soluble Lead (Pb)	90	ND	ND	ND
Soluble Mercury (Hg)	60	ND	ND	ND
Soluble Selenium (Se)	500	ND	ND	ND
Conclusion		PASS	PASS	PASS

Test Item(s)	Limit:	Result (mg/kg)		
		Sample ID		
		10	11	12
Soluble Antimony (Sb)	60	ND	ND	ND
Soluble Arsenic (As)	25	ND	ND	ND
Soluble Barium (Ba)	1000	ND	ND	ND
Soluble Cadmium (Cd)	75	ND	ND	ND
Soluble Chromium (Cr)	60	ND	ND	ND
Soluble Lead (Pb)	90	ND	ND	ND
Soluble Mercury (Hg)	60	ND	ND	ND
Soluble Selenium (Se)	500	ND	ND	ND
Conclusion		PASS	PASS	PASS

Test Item(s)	Limit:	Result (mg/kg)	
		Sample ID	
		13	14
Soluble Antimony (Sb)	60	ND	ND
Soluble Arsenic (As)	25	ND	ND

Soluble Barium (Ba)	1000	ND	ND
Soluble Cadmium (Cd)	75	ND	ND
Soluble Chromium (Cr)	60	ND	ND
Soluble Lead (Pb)	90	ND	ND
Soluble Mercury (Hg)	60	ND	ND
Soluble Selenium (Se)	500	ND	ND
Conclusion		PASS	PASS

Note / Key :
ND = Not detected mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) :
For Accessible Surface Coating and Substrate Materials (Excluding Modelling Clay, Putty, Finger Paint and Slime Materials) - Sb : 6.0 ; As : 2.5 ; Ba : 100 ; Cd : 7.5 ; Cr : 6.0 ; Pb : 9.0 ; Hg : 6.0 ; Se : 50
For Modelling Clay and Putty Materials - Sb : 6.0 ; As : 2.5 ; Ba : 35 ; Cd : 5.0 ; Cr : 2.5 ; Pb : 9.0 ; Hg : 2.5 ; Se : 50 ; B : 375
For Finger Paint Materials - Sb : 1.0 ; As : 1.0 ; Ba : 35 ; Cd : 1.5 ; Cr : 2.5 ; Pb : 2.5 ; Hg : 1.0 ; Se : 5.0
For Slime Materials - Sb : 1.0 ; As : 1.0 ; Ba : 35 ; Cd : 1.5 ; Cr : 2.5 ; Pb : 2.5 ; Hg : 1.0 ; Se : 5.0 ; B : 125

Remark :
- Test Item(s) was (were) tested according to Australian/New Zealand Standard AS/NZS ISO 8124.3: 2021+A1:2023.
- C denotes as reported result(s) was (were) adjusted by analytical correction shown in Key(s) section.

Soluble Heavy Metals Content in Substrate - ASTM International Standard ASTM F963-23, Section 4.3.5.2(2)(b)

Test Method:ASTM International Standard ASTM F963-23, Section 8.3.2 to 8.3.4;ASTM International Standard ASTM F963-23, Section 8.3.5 (Excluding 8.3.5.5(3)).

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	
Limit: (mg/kg)	25	1000	75	60	60	90	60	500	

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Sample	Result (mg/kg)								
1	ND	ND	ND	ND	ND	ND	ND	ND	PASS
2	ND	ND	ND	ND	ND	ND	ND	ND	PASS
3	ND	ND	ND	ND	ND	ND	ND	ND	PASS
4	ND	ND	ND	ND	ND	ND	ND	ND	PASS
5	ND	ND	ND	ND	ND	ND	ND	ND	PASS
6	ND	ND	ND	ND	ND	ND	ND	ND	PASS
7	ND	ND	ND	ND	ND	ND	ND	ND	PASS
8	ND	ND	ND	ND	ND	ND	ND	ND	PASS
9	ND	ND	ND	ND	ND	ND	ND	ND	PASS
10	ND	ND	ND	ND	ND	ND	ND	ND	PASS

11	ND	ND	ND	ND	ND	ND	ND	ND	PASS
12	ND	ND	ND	ND	ND	ND	ND	ND	PASS
13	ND	ND	ND	ND	ND	ND	ND	ND	PASS
14	ND	ND	ND	ND	ND	ND	ND	ND	PASS

Note / Key :
< = Less Than
As = Arsenic, Ba = Barium, Cd = Cadmium,
Sb = Antimony, Se = Selenium

mg/kg = milligrams per kilogram
Detection Limit (mg/kg) : As:2.5,Others:5
Cr = Chromium, Hg = Mercury, Pb = Lead,

Migration of Certain Elements - EN 71-3:2019+A2:2024

Test Method:EN 71-3:2019+A2:2024

Analyte	Limit: Type III	Result (mg/kg)				
		Sample ID				
		1	2	3	4	5
Boron (B)	15000	<1500	<1500	<1500	<1500	<1500
Aluminium (Al)	28130	<2813	<2813	<2813	<2813	<2813
Chromium III (Cr III)	460	<46	<46	<46	<46	<46
Chromium VI (Cr VI)	0.053	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese (Mn)	15000	<1500	<1500	<1500	<1500	<1500
Cobalt (Co)	130	<13	<13	<13	<13	<13
Nickel (Ni)	930	<93	<93	<93	<93	<93
Copper (Cu)	7700	<770	<770	<770	<770	<770
Zinc (Zn)	46000	<4600	<4600	<4600	<4600	<4600
Arsenic (As)	47	<4.7	<4.7	<4.7	<4.7	<4.7
Selenium (Se)	460	<46	<46	<46	<46	<46
Strontium (Sr)	56000	<5600	<5600	<5600	<5600	<5600
Cadmium (Cd)	17	<1.7	<1.7	<1.7	<1.7	<1.7
Tin (Sn)	180000	<18000	<18000	<18000	<18000	<18000
Organic tin	12	<1.2	<1.2	<1.2	<1.2	<1.2
Antimony (Sb)	560	<56	<56	<56	<56	<56
Barium (Ba)	18750	<1875	<1875	<1875	<1875	<1875
Mercury (Hg)	94	<9.4	<9.4	<9.4	<9.4	<9.4
Lead (Pb)	23	<2.3	<2.3	<2.3	<2.3	<2.3
Conclusion		PASS	PASS	PASS	PASS	PASS

Analyte	Limit: Type III	Result (mg/kg)				
		Sample ID				
		6	7	8	9	10
Boron (B)	15000	<1500	<1500	<1500	<1500	<1500
Aluminium (Al)	28130	<2813	<2813	<2813	<2813	<2813
Chromium III (Cr III)	460	<46	<46	<46	<46	<46
Chromium VI (Cr VI)	0.053	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese (Mn)	15000	<1500	<1500	<1500	<1500	<1500

Cobalt (Co)	130	<13	<13	<13	<13	<13
Nickel (Ni)	930	<93	<93	<93	<93	<93
Copper (Cu)	7700	<770	<770	<770	<770	<770
Zinc (Zn)	46000	<4600	<4600	<4600	<4600	<4600
Arsenic (As)	47	<4.7	<4.7	<4.7	<4.7	<4.7
Selenium (Se)	460	<46	<46	<46	<46	<46
Strontium (Sr)	56000	<5600	<5600	<5600	<5600	<5600
Cadmium (Cd)	17	<1.7	<1.7	<1.7	<1.7	<1.7
Tin (Sn)	180000	<18000	<18000	<18000	<18000	<18000
Organic tin	12	<1.2	<1.2	<1.2	<1.2	<1.2
Antimony (Sb)	560	<56	<56	<56	<56	<56
Barium (Ba)	18750	<1875	<1875	<1875	<1875	<1875
Mercury (Hg)	94	<9.4	<9.4	<9.4	<9.4	<9.4
Lead (Pb)	23	<2.3	<2.3	<2.3	<2.3	<2.3
Conclusion		PASS	PASS	PASS	PASS	PASS

Analyte	Limit: Type III	Result (mg/kg)			
		Sample ID			
		11	12	13	14
Boron (B)	15000	<1500	<1500	<1500	<1500
Aluminium (Al)	28130	<2813	<2813	<2813	<2813
Chromium III (Cr III)	460	<46	<46	<46	<46
Chromium VI (Cr VI)	0.053	<0.02	<0.02	<0.02	<0.02
Manganese (Mn)	15000	<1500	<1500	<1500	<1500
Cobalt (Co)	130	<13	<13	<13	<13
Nickel (Ni)	930	<93	<93	<93	<93
Copper (Cu)	7700	<770	<770	<770	<770
Zinc (Zn)	46000	<4600	<4600	<4600	<4600
Arsenic (As)	47	<4.7	<4.7	<4.7	<4.7
Selenium (Se)	460	<46	<46	<46	<46
Strontium (Sr)	56000	<5600	<5600	<5600	<5600
Cadmium (Cd)	17	<1.7	<1.7	<1.7	<1.7
Tin (Sn)	180000	<18000	<18000	<18000	<18000
Organic tin	12	<1.2	<1.2	<1.2	<1.2
Antimony (Sb)	560	<56	<56	<56	<56
Barium (Ba)	18750	<1875	<1875	<1875	<1875
Mercury (Hg)	94	<9.4	<9.4	<9.4	<9.4
Lead (Pb)	23	<2.3	<2.3	<2.3	<2.3
Conclusion		PASS	PASS	PASS	PASS

Key(s):

Type I = Dry, brittle, powder-like or pliable toy material(s)

Type II = Liquid or sticky toy material(s)

Type III = Scraped-off toy material(s)

Remark(s) :
- Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.
- Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed

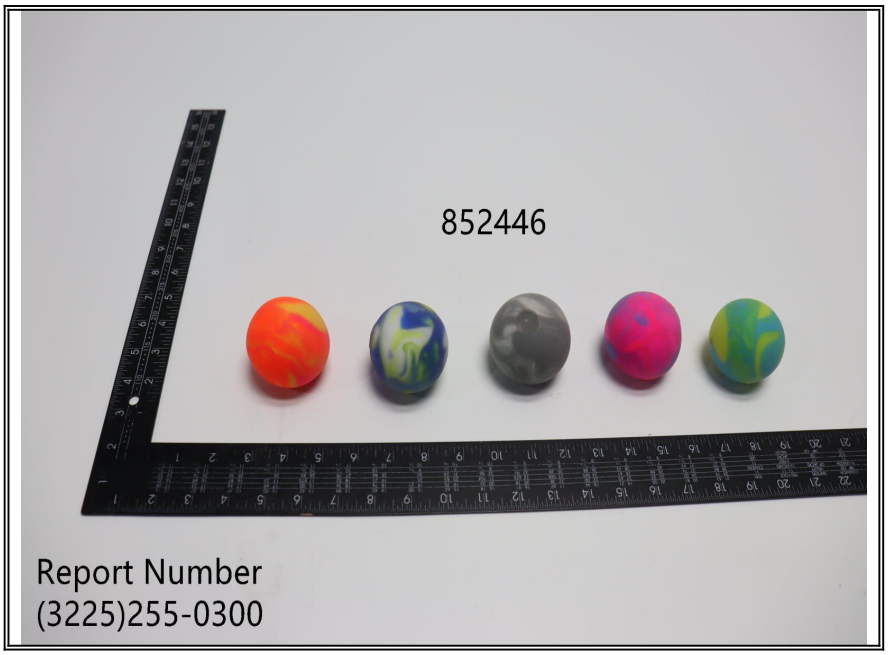
from tributyltin (TBT) cation unless further specified.

- The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.
- European Standard EN 71 Part 3: 2019 + A1: 2021 is currently harmonized under European Parliament and Council Directive 2009/48/EC and will be superseded when European Standard EN 71-3: 2019 + A2: 2024 is harmonized.

SAMPLE REFERENCE PHOTO:




852427
Report Number
(3225)255-0300
852421
Report Number
(3225)255-0300



-- END OF REPORT --