



TEST REPORT

Report No. 010224010043R1

DATED: 23 JANUARY 2025

Client : PLAN CREATIONS CO., LTD.
8 MOO 8, TRANG-PALIAN RD.,
YANTAKAO, TRANG 92140 THAILAND

Buyer : /

Sample Description : TRIANGLE CLUTCHING TOY

Item No. : 5244

SKU No. : /

Model / Style : /

Client Specified Age Grade : 3M+

Manufacturer : /

Country of Origin : THAILAND

Country of Destination : /

Test Sample Received : RECEIVED ON 25/03/2024

Test Period : FROM 25/03/2024 TO 02/04/2024

**Report was revised and shall supersede Report # 010224010043, dated 03 April 2024.*

TEST REQUESTED	CONCLUSION	REMARK
ASTM F963-23 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (MECHANICAL AND PHYSICAL PROPERTIES)	PASS	-
ASTM F963-23 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (FLAMMABILITY)	PASS	-
CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 101 (A)/ 15 U.S.C 1278A – TOTAL LEAD IN SUBSTRATE	PASS	-
CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 101 (F)/ 16 CFR PART 1303 – TOTAL LEAD IN SURFACE COATING	PASS	-
ILCS 410 ILCS 45 LEAD POISONING PREVENTION ACT SEC. 6(B) CHILDREN'S PRODUCTS (ILLINOIS)	PASS	-
ASTM F963-23 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (SOLUBLE HEAVY METAL CONTENT)	PASS	-
CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 108/ 16 CFR PART 1307 - PHTHALATES	PASS	-
CALIFORNIA PROPOSITION 65 – PHTHALATE CONTENT	PASS	-

GIC Testing & Inspection Services Pte Ltd

158 Kallang Way #08-01
Singapore 349245



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Remark:

1. The sample is tested "3M+" as per client requested.
2. The Labeled Age Grade is 3M+.

For technical enquiries or any other concerns,
please contact:

GIC TESTING & INSPECTION SERVICES PTE LTD

Tel: +65 6741 2260

Email: services.sg@gicgrp.com

PREPARED BY:

A handwritten signature in black ink, appearing to read 'Wong Kok Leong'.

WONG KOK LEONG

Laboratory Supervisor

APPROVED BY:

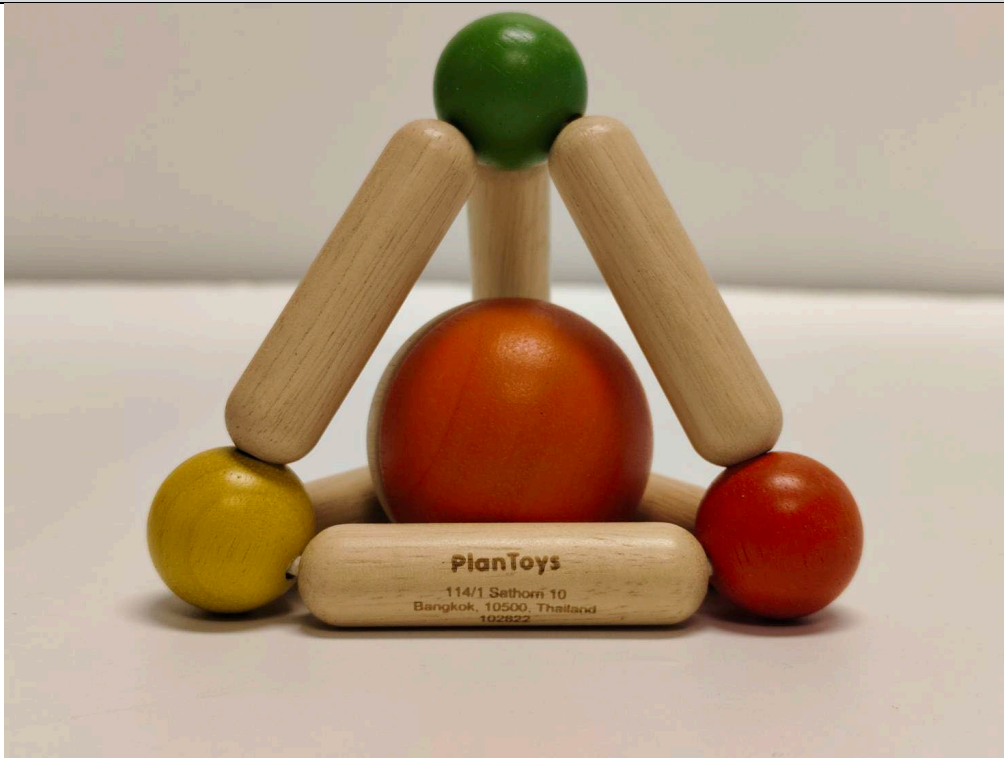
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SUZEN CHONG

Senior Vice President

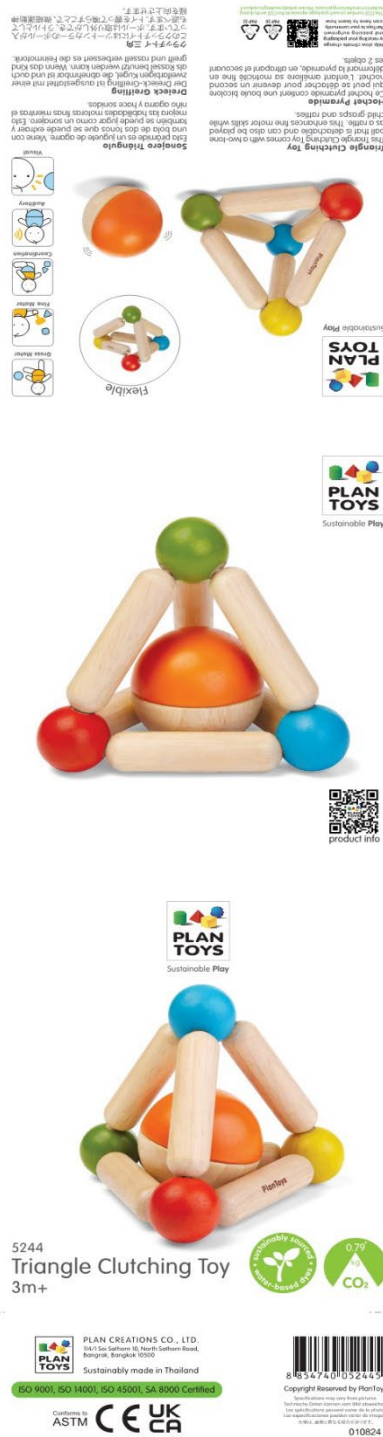
GICG - ENABLING TRUST IN A CHANGING WORLD

SAMPLE PHOTO



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SAMPLE PHOTO





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REMARK:

As per customer request, results for chemical tests listed below were referenced from the corresponding reports, issued no more than 12 months prior to this report.

Item Description: 5244 TRIANGLE CLUTCHING

Components	Report Number	Date of Issue
<u>ASTM F963-23 Soluble Heavy Metals</u>		
1 WHITE ELASTIC	010223020139	9-Mar-23
2 LIGHT GREEN COATING ON WOOD	010224010338	21-Feb-24
3 BLUE COATING ON WOOD	010223030028	17-Mar-23
4 ORANGE COATING ON WOOD (Light)	010223120127	22-Jan-24
5 YELLOW COATING ON WOOD	010223120131	22-Jan-24
6 CLEAR COATING ON WOOD	010223060081	27-Jun-23
7 ORANGE COATING ON WOOD (Dark)	010223050027	16-May-23
8 PURPLE COATING ON WOOD	010223050055	26-May-23
9 PINK COATING ON WOOD	010223030028	17-Mar-23
<u>Lead in Surface Coating</u>		
1 LIGHT GREEN COATING ON WOOD	010224010338	21-Feb-24
2 BLUE COATING ON WOOD	010223030028	17-Mar-23
3 ORANGE COATING ON WOOD (Light)	010223120127	22-Jan-24
4 YELLOW COATING ON WOOD	010223120131	22-Jan-24
5 CLEAR COATING ON WOOD	010223060081	27-Jun-23
6 ORANGE COATING ON WOOD (Dark)	010223050027	16-May-23
7 PURPLE COATING ON WOOD	010223050055	26-May-23
8 PINK COATING ON WOOD	010223030028	17-Mar-23
<u>Lead in Substrate</u>		
1 WHITE ELASTIC	010223020139	9-Mar-23
<u>Phthalate Content</u>		
1 WHITE ELASTIC	010223020139	9-Mar-23
2 LIGHT GREEN COATING ON WOOD	010224010338	21-Feb-24
3 BLUE COATING ON WOOD	010223030028	17-Mar-23
4 ORANGE COATING ON WOOD (Light)	010223120127	22-Jan-24
5 YELLOW COATING ON WOOD	010223120131	22-Jan-24
6 CLEAR COATING ON WOOD	010223060081	27-Jun-23
7 ORANGE COATING ON WOOD (Dark)	010223050027	16-May-23
8 PURPLE COATING ON WOOD	010223050055	26-May-23
9 PINK COATING ON WOOD	010223030028	17-Mar-23



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TEST RESULT(S):

ASTM F963-23 – Standard Consumer Safety Specification for Toy Safety (Mechanical and Physical Properties)

Test Method : Reference to ASTM F963-23.

Clause	Requirement	Result
4.1	Material quality	M
4.2	Flammability	See Results Annex A5
4.3	Toxicology	M 4.3.5.1 (1) & (2); 4.3.5.2 (2) a & b; 4.3.8
4.4	Electrical/Thermal Energy	NA
4.5	Sound-Producing Toys	See Results 4.5.1.3
4.6	Small Objects	M 4.6.1, 4.6.1.1
4.7	Accessible Edges	M
4.8	Projections	NA
4.9	Accessible Points	M 4.9.1, 4.9.3
4.10	Wires or Rods	NA
4.11	Nails and Fasteners	NA
4.12	Plastic Film	NA
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords, Straps, and Elastics	NA
4.15	Stability and Over-Load Requirements	NA
4.16	Confined Spaces	NA
4.17	Wheels, Tires, and Axles	NA
4.18	Holes, Clearance, and Accessibility of Mechanisms	NA
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	M 16 CFR 1510
4.24	Squeeze Toys	NA
4.25	Battery-Operated Toys	NA
4.26	Toys Intended to be Attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	M
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA



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TEST RESULT(S): (Continued)

Clause	Requirement	Result
5	Labeling Requirements	M 5.1, 5.2
6	Instructional Literature	M 6.1
7	Producer's Markings	M 7.1

Note:

M = Meet

NM = Not Meet

NA = Not Applicable

R = Refer to Comment Section

NR = Not Requested

NT = Not Tested

NP = Not Present

Sound-Producing Toys

Test Item(s)	5244 Triangle Clutching Toy		
Clause 4.5.1.3	Permissible Limit	Unit	Result
C-weighted peak emission sound pressure level (L_{Cpeak})	115	dB	70
Conclusion	-	-	PASS

Flammability For Solid/ Soft Toy

Test Method : Reference to ASTM F963-23 Annex A5

Test Item(s)	Item / Component Description(s)
1	5244 TRIANGLE CLUTCHING TOY

Test Item(s)	Length of Major Axis (in)	Burn Length (in)	Burn Time (s)	Regulatory Limit (in/s)	Burn Rate (in/s)	Result
1	4.3	0	5	0.1	DNI	PASS
Conclusion	-	-	-	-	-	PASS

Note:

M = Meet

NM = Not Meet

NA = Not Applicable

R = Refer to Comment Section

NR = Not Requested

NT = Not Tested

NP = Not Present

DNI = Did Not Ignite



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TEST RESULT(S): (Continued)

Consumer Product Safety Improvement Act Of 2008 Section 101 (a)/ 15 U.S.C 1278a – Total Lead In Substrate

Test Method : Reference to CPSC-CH-E1002-08.3 Analysis by ICP-MS.

Test Item(s)	Item / Component Description(s)
1	WHITE ELASTIC

Test Item(s)	Unit	Permissible Limit	Result
			1
Lead (Pb)	mg/kg	100	ND
Conclusion	-	-	PASS

Note:

- mg/kg = milligrams per kilogram
- ND = Not Detected
- Reporting limit (Each): 2 mg/kg

Consumer Product Safety Improvement Act Of 2008 Section 101 (f)/ 16 CFR Part 1303 – Total Lead In Surface Coating

Test Method : Reference to CPSC-CH-E1003-09.1 Analysis by ICP-MS.

Test Item(s)	Item / Component Description(s)
1	LIGHT GREEN COATING ON WOOD
2	BLUE COATING ON WOOD
3	ORANGE COATING ON WOOD (Light)
4	YELLOW COATING ON WOOD
5	CLEAR COATING ON WOOD
6	ORANGE COATING ON WOOD (Dark)
7	PURPLE COATING ON WOOD
8	PINK COATING ON WOOD

Test Item(s)	Unit	Permissible Limit	Result			
			1	2	3	4
Lead (Pb)	mg/kg	90	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

Test Item(s)	Unit	Permissible Limit	Result			
			5	6	7	8
Lead (Pb)	mg/kg	90	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

Note:

- mg/kg = milligrams per kilogram
- ND = Not Detected
- Reporting limit (Each): 2 mg/kg



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TEST RESULT(S): (Continued)

410 ILCS 45 Lead Poisoning Prevention Act sec. 6(b) Children's Products (Illinois)

Test Method : Reference to CPSC-CH-E1002-08.3, CPSC-CH-E1003-09.1 Analysis by ICP-MS.

Test Item(s)	Item / Component Description(s)
1	WHITE ELASTIC
2	LIGHT GREEN COATING ON WOOD
3	BLUE COATING ON WOOD
4	ORANGE COATING ON WOOD (Light)
5	YELLOW COATING ON WOOD
6	CLEAR COATING ON WOOD
7	ORANGE COATING ON WOOD (Dark)
8	PURPLE COATING ON WOOD
9	PINK COATING ON WOOD

Test Item(s)	Unit	Permissible Limit	Result
			1
Lead (Pb) in substrate	mg/kg	100*	ND
Conclusion	-	-	PASS

Test Item(s)	Unit	Permissible Limit	Result			
			1	2	3	4
Lead (Pb) in coating	mg/kg	90*	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

Test Item(s)	Unit	Permissible Limit	Result			
			5	6	7	8
Lead (Pb) in coating	mg/kg	90*	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

Note:

- mg/kg = milligrams per kilogram
- Reporting limit (Each): 2 mg/kg
- ND = Not Detected
- * Result over 40 mg/kg – 90 mg/kg in coating and 40 mg/kg – 100 mg/kg in substrate, warning label must be added



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TEST RESULT(S): (Continued)

ASTM F963-23 – Standard Consumer Safety Specification for Toy Safety (Soluble Heavy Metal Content)

Test Method : Reference to ASTM F963-23 Analysis by ICP-MS.

Test Item(s)	Item / Component Description(s)
1	WHITE ELASTIC
2	LIGHT GREEN COATING ON WOOD
3	BLUE COATING ON WOOD
4	ORANGE COATING ON WOOD (Light)
5	YELLOW COATING ON WOOD
6	CLEAR COATING ON WOOD
7	ORANGE COATING ON WOOD (Dark)
8	PURPLE COATING ON WOOD
9	PINK COATING ON WOOD

Test Item(s)	Unit	Permissible Limit	Result				
			1	2	3	4	5
Antimony (Sb)	mg/kg	60	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	25	ND	ND	ND	ND	85.3
Barium (Ba)	mg/kg	1000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	60	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

Test Item(s)	Unit	Permissible Limit	Result			
			6	7	8	9
Antimony (Sb)	mg/kg	60	ND	ND	ND	ND
Arsenic (As)	mg/kg	25	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	60	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

Note:

- mg/kg = milligrams per kilogram
- Reporting limit (each) = 2 mg/kg
- ND = Not Detected



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TEST RESULT(S): (Continued)

Consumer Product Safety Improvement Act Of 2008 Section 108/ 16 CFR Part 1307 - Phthalates

Test Method : Reference to CPSC-CH-C1001-09.4 Analysis by GC-MS.

Test Item(s)	Item / Component Description(s)
1	WHITE ELASTIC
2	LIGHT GREEN COATING ON WOOD
3	BLUE COATING ON WOOD
4	ORANGE COATING ON WOOD (Light)
5	YELLOW COATING ON WOOD
6	CLEAR COATING ON WOOD
7	ORANGE COATING ON WOOD (Dark)
8	PURPLE COATING ON WOOD
9	PINK COATING ON WOOD

Test Item(s)	Abbrev.	Unit	Permissible Limit	Result					
				1	2	3	4	5	6
Di-iso-butyl phthalate	DIBP	%	0.1	ND	ND	ND	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND	ND	ND	ND
Di-n-pentyl phthalate	DPENP	%	0.1	ND	ND	ND	ND	ND	ND
Di-n-hexyl phthalate	DHEXP	%	0.1	ND	ND	ND	ND	ND	ND
Di-cyclohexyl phthalate	DCHP	%	0.1	ND	ND	ND	ND	ND	ND
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND	ND	ND	ND
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	DNOP	%	0.1	ND	ND	ND	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND	ND	ND	ND
Conclusion		-	-	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	Abbrev.	Unit	Permissible Limit	Result		
				7	8	9
Di-iso-butyl phthalate	DIBP	%	0.1	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND
Di-n-pentyl phthalate	DPENP	%	0.1	ND	ND	ND
Di-n-hexyl phthalate	DHEXP	%	0.1	ND	ND	ND
Di-cyclohexyl phthalate	DCHP	%	0.1	ND	ND	ND
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND
Di-n-octyl phthalate	DNOP	%	0.1	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND
Conclusion		-	-	PASS	PASS	PASS

Note:

- Reporting limit (Each): 0.005 %
- ND = Not Detected
- Phthalate requirements are quoted in accordance with 16 CFR 1307, while Di-n-octyl phthalate (DNOP) and Di-iso-decyl phthalate (DIDP) were tested upon client request.

ANNEX					
Compound	Abbrev.	CASRN	Compound	Abbrev.	CASRN
Di-iso-butyl phthalate	DIBP	84-69-5	Di-iso-nonyl phthalate	DINP	28553-12-0 / 68515-48-0
Di-butyl phthalate	DBP	84-74-2	Di-iso-decyl phthalate	DIDP	68515-49-1 / 26761-40-0
Di-n-pentyl phthalate	DPENP	131-18-0	Di-n-hexyl phthalate	DHEXP	84-75-3
Benzyl butyl phthalate	BBP	85-68-7	Di-n-octyl phthalate	DNOP	117-84-0
Di-(2-ethylhexyl) phthalate	DEHP	117-81-7	Di-cyclohexyl phthalate	DCHP	84-61-7

CASRN: Chemical Abstracts Service Registry Number



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TEST RESULT(S): (Continued)

California Proposition 65 – Phthalate Content

Test Method : Reference to CPSC-CH-C1001-09.4 Analysis by GC-MS.

Test Item(s)	Item / Component Description(s)
1	WHITE ELASTIC
2	LIGHT GREEN COATING ON WOOD
3	BLUE COATING ON WOOD
4	ORANGE COATING ON WOOD (Light)
5	YELLOW COATING ON WOOD
6	CLEAR COATING ON WOOD
7	ORANGE COATING ON WOOD (Dark)
8	PURPLE COATING ON WOOD
9	PINK COATING ON WOOD

Test Item(s)	Abbrev.	Unit	Permissible Limit	Result					
				1	2	3	4	5	6
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND	ND	ND	ND
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND	ND	ND	ND
Di-n-hexyl phthalate	DHEXP / DnHP	%	0.1	ND	ND	ND	ND	ND	ND
Conclusion		-	-	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	Abbrev.	Unit	Permissible Limit	Result		
				7	8	9
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND
Di-n-hexyl phthalate	DHEXP / DnHP	%	0.1	ND	ND	ND
Conclusion		-	-	PASS	PASS	PASS

Note:

- Reporting limit (Each): 0.01 %

- ND = Not Detected

ANNEX					
Compound	Abbrev.	CASRN	Compound	Abbrev.	CASRN
Di-butyl phthalate	DBP	84-74-2	Di-(2-ethylhexyl) phthalate	DEHP	117-81-7
Benzyl butyl phthalate	BBP	85-68-7	Di-n-hexyl phthalate	DHEXP / DnHP	84-75-3
Di-iso-nonyl phthalate	DINP	28553-12-0	Di-iso-decyl phthalate	DIDP	26761-40-0

CASRN: Chemical Abstracts Service Registry Number

END OF REPORT

This report sets forth our findings solely with respect to the test samples identified herein. The results in this report are not representative of the quality or characteristics of the lot/batch from which a test sample was taken or any similar or identical product unless specifically and expressly noted. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client, GIC Testing & Inspection Services Pte. Ltd. therefore assumes no responsibility for the accuracy of information on the brand name, model/ style number, consignment or any information supplied. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product. 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.