Technical Report No.60.160.12.14020.01D



Dated 2012-11-16

Applicant:	-	Baby Solutions SA Via Magazzini Generali 10			
Test Subject:	MyHappyBlocks! Style No.: 16001.00				
Purpose of examination:	(1)	Polycyclic Aromatic Hydrocarbons (PAH) Content Test Extraction method with reference to ZEK 01.4-08 and followed by GC-MS analysis [Reporting Limit = 0.10 mg/kg]			
	(2)	Regulated Phthalates Test Consumer Product Safety Improvement Act of 2008 (Section 108) CPSC-CH-C1001-09.3 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005 %]			
	(3)	Regulated Phthalates Test Regulation (EC) No.1907/2006 (REACH) Annex XVII, Entry 51 and 52 (Formerly 2005/84/EC Directive) Solvent extraction by chloroform and GC-MS analysis. [Reporting Limit = 0.005 %]			
	(4)	Total Lead Content Test Consumer Product Safety Improvement Act of 2008 (Section 101) Test in accordance with CPSC-CH-E1003-09.1 (Paint and surface coating), CPSC-CH-E1002-08 (Non-Metallic components) [Reporting Limit = 10.0 mg/kg]			
	(5)	Total Cadmium Content Test Regulation (EC) No.1907/2006 (REACH) and its amendment Regulation (EU) No. 494/2011, Annex XVII, Entry 23 Microwave Digestion and followed by Atomic Absorption Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES) [Reporting Limit = 2.0 mg/kg]			
	(6)	Formaldehyde Content Test (Accessible Wood) Test in accordance with EN 71 - 9 : 2005+A1:2007 : Organic chemical compounds: Requirement Clause 4.3.3 Formaldehyde According to EN 717-3:1996, formaldehyde content determined by UV- Visible spectroscopy [Reporting Limit = 10 mg/kg]			
Test result:	Refe	r to section 3			

Test result:

Refer to section 3

Note: No extract, abridgment or abstraction from a test report may be published or used to advertise a product without the written consent of the Director of TÜV SÜD Hong Kong Ltd. The results contained herein apply only to the particular sample tested and to the specific test carried out and not to samples of the current production line.

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Conclusion:

(1)	Polycyclic Aromatic Hydrocarbons (PAH)	Pass
	Content Test	
(2)	Regulated Phthalates Test	Pass
(3)	Regulated Phthalates Test	Pass
(4)	Total Lead Content Test	Pass
(5)	Total Cadmium Content Test	Pass
(6)	Formaldehyde Content Test (Accessible Wood)	Pass
()		

Remarks

- (1) The results relate only to the items tested.(2) Samples are tested as received.





- 1. Order
- 1.1 Customer's Reference Nil
- 1.2 Receipt Date of Test Sample, Location Received on 2012-10-03, Hong Kong
- 1.3 Date of Testing, Location From 2012-10-03 to 2012-10-10, Hong Kong
- 1.4 Document submitted Nil

2. Description of the test subject

Sample No.	Description	Photograph
001	Nature wood (blocks)	
002	Blue green paint	
003	Red paint	
004	White paint	
005	Orange paint	
006	Dark red paint	
007	Sky blue paint	
800	Light orange paint	
009	Pink paint	
010	Light brown paint	
011	Brown paint	
012	Dark purple paint	
013	Light yellow paint	
014	Brighten green paint	
015	Purple paint	
016	Dark brown paint	
017	Green paint	
018	Yellow paint	
019	Hot pink paint	
020	Chocolate brown paint	
021	Black paint	
022	Olive green paint	
023	Grass green paint	



3. Test Results

3.1 Polycyclic Aromatic Hydrocarbons (PAHs) Content Test

Extraction method with reference to ZEK 01.4-08 and followed by GC-MS analysis [Reporting Limit = 0.10 mg/kg]

	Results [mg/kg]			
Compounds	002	003	004	005
Naphthalene	1.73	0.57	0.32	1.05
Acenaphthylene	<0.10	<0.10	<0.10	<0.10
Acenaphthene	<0.10	<0.10	<0.10	<0.10
Fluorene	<0.10	<0.10	<0.10	<0.10
Phenanthrene	<0.10	<0.10	<0.10	<0.10
Anthracene	<0.10	<0.10	<0.10	<0.10
Fluoranthene	<0.10	<0.10	<0.10	<0.10
Pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	<0.10	<0.10	<0.10	<0.10
Chrysene	<0.10	<0.10	<0.10	<0.10
Benzo[b]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[j]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[k]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[a]pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[e]pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	<0.10	<0.10	<0.10	<0.10
dibenzo[ah]anthracene	<0.10	<0.10	<0.10	<0.10
Indeno[1,2,3-cd]pyrene	<0.10	<0.10	<0.10	<0.10
Sum of detected PAHs	1.73	<1.00	<1.00	1.05
Category	Category 2	Category 2	Category 2	Category 2
Conclusion	Pass	Pass	Pass	Pass

Note: 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3. Limits for PAH in product according to ZEK 01.4-08

•	Emilia for 1 Arring poddet according to ZER 01.4 00					
	Parameter (mg/kg)	Category 1	Category 2	Category 3		
		Materials intended to	Materials not covered	Materials not covered by		
		be put in the mouth or	by category 1, with	category 1 or 2 with		
		materials of toys for	foreseeable skin	foreseeable skin contact		
		children aged < 36	contact for longer than	up to 30 seconds (short		
		months with intended	30 seconds (long-term	term skin contact)		
		skin contact [#]	skin contact)			
	Benzo[a]pyrene	Not detectable (< 0,2)*	1	20		
	Sum 18 PAH	Not detectable (< 0,2)*	10	200		
	(EPA)					



3.1 Polycyclic Aromatic Hydrocarbons (PAHs) Content Test

Extraction method with reference to ZEK 01.4-08 and followed by GC-MS analysis [Reporting Limit = 0.10 mg/kg]

	Results [mg/kg]			
Compounds	006	007	008	009
Naphthalene	2.96	1.08	0.50	1.18
Acenaphthylene	<0.10	<0.10	<0.10	<0.10
Acenaphthene	<0.10	<0.10	<0.10	<0.10
Fluorene	<0.10	<0.10	<0.10	<0.10
Phenanthrene	<0.10	<0.10	<0.10	<0.10
Anthracene	<0.10	<0.10	<0.10	<0.10
Fluoranthene	<0.10	<0.10	<0.10	<0.10
Pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	<0.10	<0.10	<0.10	<0.10
Chrysene	<0.10	<0.10	<0.10	<0.10
Benzo[b]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[j]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[k]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[a]pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[e]pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	<0.10	<0.10	<0.10	<0.10
dibenzo[ah]anthracene	<0.10	<0.10	<0.10	<0.10
Indeno[1,2,3-cd]pyrene	<0.10	<0.10	<0.10	<0.10
Sum of detected PAHs	2.96	1.08	<1.00	1.18
Category	Category 2	Category 2	Category 2	Category 2
Conclusion	Pass	Pass	Pass	Pass

Note: 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3. Limits for PAH in product according to ZEK 01.4-08

p.					
Parameter (mg/kg)	Category 1	Category 2	Category 3		
	Materials intended to be put in the mouth or materials of toys for	Materials not covered by category 1, with foreseeable skin	Materials not covered by category 1 or 2 with foreseeable skin contact		
	children aged < 36 months with intended skin contact [#]	contact for longer than 30 seconds (long-term skin contact)	up to 30 seconds (short term skin contact)		
Benzo[a]pyrene	Not detectable (< 0,2)*	1	20		
Sum 18 PAH (EPA)	Not detectable (< 0,2)*	10	200		



3.1 Polycyclic Aromatic Hydrocarbons (PAHs) Content Test

Extraction method with reference to ZEK 01.4-08 and followed by GC-MS analysis [Reporting Limit = 0.10 mg/kg]

	Results [mg/kg]			
Compounds	010	011	012	013
Naphthalene	0.94	1.19	2.26	0.47
Acenaphthylene	<0.10	<0.10	<0.10	<0.10
Acenaphthene	<0.10	<0.10	<0.10	<0.10
Fluorene	<0.10	<0.10	<0.10	<0.10
Phenanthrene	<0.10	<0.10	<0.10	<0.10
Anthracene	<0.10	<0.10	<0.10	<0.10
Fluoranthene	<0.10	<0.10	<0.10	<0.10
Pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	<0.10	<0.10	<0.10	<0.10
Chrysene	<0.10	<0.10	<0.10	<0.10
Benzo[b]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[j]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[k]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[a]pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[e]pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	<0.10	<0.10	<0.10	<0.10
dibenzo[ah]anthracene	<0.10	<0.10	<0.10	<0.10
Indeno[1,2,3-cd]pyrene	<0.10	<0.10	<0.10	<0.10
Sum of detected PAHs	<1.00	1.19	2.26	<1.00
Category	Category 2	Category 2	Category 2	Category 2
Conclusion	Pass	Pass	Pass	Pass

Note: 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3. Limits for PAH in product according to ZEK 01.4-08

p.					
Parameter (mg/kg)	Category 1	Category 2	Category 3		
	Materials intended to be put in the mouth or materials of toys for	Materials not covered by category 1, with foreseeable skin	Materials not covered by category 1 or 2 with foreseeable skin contact		
	children aged < 36 months with intended skin contact [#]	contact for longer than 30 seconds (long-term skin contact)	up to 30 seconds (short term skin contact)		
Benzo[a]pyrene	Not detectable (< 0,2)*	1	20		
Sum 18 PAH (EPA)	Not detectable (< 0,2)*	10	200		



3.1 Polycyclic Aromatic Hydrocarbons (PAHs) Content Test

Extraction method with reference to ZEK 01.4-08 and followed by GC-MS analysis [Reporting Limit = 0.10 mg/kg]

Results [mg/kg]				
Compounds	014	015	016	017
Naphthalene	8.77	2.10	1.72	4.69
Acenaphthylene	<0.10	<0.10	<0.10	<0.10
Acenaphthene	<0.10	<0.10	<0.10	<0.10
Fluorene	<0.10	<0.10	<0.10	<0.10
Phenanthrene	<0.10	<0.10	<0.10	<0.10
Anthracene	<0.10	<0.10	<0.10	<0.10
Fluoranthene	<0.10	<0.10	<0.10	<0.10
Pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	<0.10	<0.10	<0.10	<0.10
Chrysene	<0.10	<0.10	<0.10	<0.10
Benzo[b]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[j]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[k]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[a]pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[e]pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	<0.10	<0.10	<0.10	<0.10
dibenzo[ah]anthracene	<0.10	<0.10	<0.10	<0.10
Indeno[1,2,3-cd]pyrene	<0.10	<0.10	<0.10	<0.10
Sum of detected PAHs	8.77	2.10	1.72	4.69
Category	Category 2	Category 2	Category 2	Category 2
Conclusion	Pass	Pass	Pass	Pass

Note: 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3. Limits for PAH in product according to ZEK 01.4-08

=						
Parameter (mg/kg)	Category 1	Category 2	Category 3			
	Materials intended to	Materials not covered	Materials not covered by			
	be put in the mouth or	by category 1, with	category 1 or 2 with			
	materials of toys for	foreseeable skin	foreseeable skin contact			
	children aged < 36	contact for longer than	up to 30 seconds (short			
	months with intended	30 seconds (long-term	term skin contact)			
	skin contact [#]	skin contact)				
Benzo[a]pyrene	Not detectable (< 0,2)*	1	20			
Sum 18 PAH (EPA)	Not detectable (< 0,2)*	10	200			



3.1 Polycyclic Aromatic Hydrocarbons (PAHs) Content Test

Extraction method with reference to ZEK 01.4-08 and followed by GC-MS analysis [Reporting Limit = 0.10 mg/kg]

		Results [mg/kg]		
Compounds	018	019	020	021
Naphthalene	0.84	1.15	4.29	6.04
Acenaphthylene	<0.10	<0.10	<0.10	<0.10
Acenaphthene	<0.10	<0.10	<0.10	<0.10
Fluorene	<0.10	<0.10	<0.10	<0.10
Phenanthrene	<0.10	<0.10	<0.10	<0.10
Anthracene	<0.10	<0.10	<0.10	<0.10
Fluoranthene	<0.10	<0.10	<0.10	<0.10
Pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	<0.10	<0.10	<0.10	<0.10
Chrysene	<0.10	<0.10	<0.10	<0.10
Benzo[b]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[j]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[k]fluoranthene	<0.10	<0.10	<0.10	<0.10
Benzo[a]pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[e]pyrene	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	<0.10	<0.10	<0.10	<0.10
dibenzo[ah]anthracene	<0.10	<0.10	<0.10	<0.10
Indeno[1,2,3-cd]pyrene	<0.10	<0.10	<0.10	<0.10
Sum of detected PAHs	<1.00	1.15	4.29	6.04
Category	Category 2	Category 2	Category 2	Category 2
Conclusion	Pass	Pass	Pass	Pass

Note: 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3. Limits for PAH in product according to ZEK 01.4-08

=					
Parameter (mg/kg)	Category 1	Category 2	Category 3		
	Materials intended to	Materials not covered	Materials not covered by		
	be put in the mouth or	by category 1, with	category 1 or 2 with		
	materials of toys for	foreseeable skin	foreseeable skin contact		
	children aged < 36	contact for longer than	up to 30 seconds (short		
	months with intended	30 seconds (long-term	term skin contact)		
	skin contact [#]	skin contact)			
Benzo[a]pyrene	Not detectable (< 0,2)*	1	20		
Sum 18 PAH (EPA)	Not detectable (< 0,2)*	10	200		



3.1 Polycyclic Aromatic Hydrocarbons (PAHs) Content Test

Extraction method with reference to ZEK 01.4-08 and followed by GC-MS analysis [Reporting Limit = 0.10 mg/kg]

	Results [mg/kg]			
Compounds	022	023		
Naphthalene	1.51	0.76		
Acenaphthylene	<0.10	<0.10		
Acenaphthene	<0.10	<0.10		
Fluorene	<0.10	<0.10		
Phenanthrene	<0.10	<0.10		
Anthracene	<0.10	<0.10		
Fluoranthene	<0.10	<0.10		
Pyrene	<0.10	<0.10		
Benzo[a]anthracene	<0.10	<0.10		
Chrysene	<0.10	<0.10		
Benzo[b]fluoranthene	<0.10	<0.10		
Benzo[j]fluoranthene	<0.10	<0.10		
Benzo[k]fluoranthene	<0.10	<0.10		
Benzo[a]pyrene	<0.10	<0.10		
Benzo[e]pyrene	<0.10	<0.10		
Benzo[ghi]perylene	<0.10	<0.10		
dibenzo[ah]anthracene	<0.10	<0.10		
Indeno[1,2,3-cd]pyrene	<0.10	<0.10		
Sum of detected PAHs	1.51	<1.00		
Category	Category 2	Category 2		
Conclusion	Pass	Pass		

Note: 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3. Limits for PAH in product according to ZEK 01.4-08

Parameter (mg/kg)	Category 1	Category 2	Category 3	
	Materials intended to	Materials not covered	Materials not covered by	
	be put in the mouth or	by category 1, with	category 1 or 2 with	
	materials of toys for	foreseeable skin	foreseeable skin contact	
	children aged < 36	contact for longer than	up to 30 seconds (short	
	months with intended	30 seconds (long-term	term skin contact)	
	skin contact [#]	skin contact)		
Benzo[a]pyrene	Not detectable (< 0,2)*	1	20	
Sum 18 PAH	Not detectable (< 0,2)*	10	200	
(EPA)				



3.2 Regulated Phthalates Test

Consumer Product Safety Improvement Act of 2008 (Section 108) CPSC-CH-C1001-09.3 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005 %]

	Results [%]		
Compounds	002	003	004
Dibutyl phthalate, (DBP)	N.D.	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	N.D.	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	N.D.	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	N.D.	N.D.	N.D.
Di-isononyl phthalate, (DINP)	N.D.	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass
		Results [%]	
Compounds	005	006	007
Dibutyl phthalate, (DBP)	N.D.	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	N.D.	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	N.D.	0.012	N.D.
Di-n-octyl phthalate, (DNOP)	N.D.	N.D.	N.D.
Di-isononyl phthalate, (DINP)	N.D.	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass
		Results [%]	
Compounds	008	009	010
Dibutyl phthalate, (DBP)	N.D.	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	N.D.	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	N.D.	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	N.D.	N.D.	N.D.
Di-isononyl phthalate, (DINP)	N.D.	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass
		Results [%]	
Compounds	011	012	013
Dibutyl phthalate, (DBP)	N.D.	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	N.D.	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	N.D.	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	N.D.	N.D.	N.D.
Di-isononyl phthalate, (DINP)	N.D.	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Note: 1. "N.D." denotes Not Detected.

2. "%" denotes percentage by weight

3. Not more than 0.1% of each DEHP, DBP, BBP for children's toys and child care articles

4. Not more than 0.1% of each DINP, DIDP, DNOP for children's toys that can be placed in the mouth and child care articles



3.2 Regulated Phthalates Test

Consumer Product Safety Improvement Act of 2008 (Section 108) CPSC-CH-C1001-09.3 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005 %]

	Results [%]		
Compounds	014	015	016
Dibutyl phthalate, (DBP)	N.D.	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	N.D.	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	N.D.	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	N.D.	N.D.	N.D.
Di-isononyl phthalate, (DINP)	N.D.	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass
		Results [%]	
Compounds	017	018	019
Dibutyl phthalate, (DBP)	N.D.	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	N.D.	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	N.D.	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	N.D.	N.D.	N.D.
Di-isononyl phthalate, (DINP)	N.D.	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass
		Results [%]	
Compounds	020	021	022
Dibutyl phthalate, (DBP)	N.D.	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	N.D.	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	0.007	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	N.D.	N.D.	N.D.
Di-isononyl phthalate, (DINP)	N.D.	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass
		Results [%]	
Compounds	023		
Dibutyl phthalate, (DBP)		N.D.	
Benzyl butyl phthalate, (BBP)	N.D.		
Bis (2-ethylhexyl) phthalate, (DEHP)		N.D.	
Di-n-octyl phthalate, (DNOP)	N.D.		
Di-isononyl phthalate, (DINP)		N.D.	
Di-isodecyl phthalate, (DIDP)	N.D.		
Conclusion		Pass	

Note: 1. "N.D." denotes Not Detected.

- 2. "%" denotes percentage by weight
- 3. Not more than 0.1% of each DEHP, DBP, BBP for children's toys and child care articles
- 4. Not more than 0.1% of each DINP, DIDP, DNOP for children's toys that can be placed in the mouth and child care articles



3.3 Regulated Phthalates Test

Regulation (EC) No.1907/2006 (REACH) Annex XVII, Entry 51 and 52 (Formerly 2005/84/EC Directive)

Solvent extraction by chloroform and GC-MS analysis.

[Reporting Limit = 0.005 %]

	Results [%]		
Compounds	002	003	004
Bis (2-ethylhexyl) phthalate, DEHP	N.D.	N.D.	N.D.
Dibutyl phthalate, DBP	N.D.	N.D.	N.D.
Benzyl butyl phthalate, BBP	N.D.	N.D.	N.D.
Di-isononyl phthalate, DINP	N.D.	N.D.	N.D.
Di-isodecyl phthalate, DIDP	N.D.	N.D.	N.D.
Di-n-octyl phthalate, DNOP	N.D.	N.D.	N.D.
Sum of DEHP, DBP & BBP ¹	N.D.	N.D.	N.D.
Sum of DINP, DIDP, DNOP ²	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

	Results [%]		
Compounds	005	006	007
Bis (2-ethylhexyl) phthalate, DEHP	N.D.	0.012	N.D.
Dibutyl phthalate, DBP	N.D.	N.D.	N.D.
Benzyl butyl phthalate, BBP	N.D.	N.D.	N.D.
Di-isononyl phthalate, DINP	N.D.	N.D.	N.D.
Di-isodecyl phthalate, DIDP	N.D.	N.D.	N.D.
Di-n-octyl phthalate, DNOP	N.D.	N.D.	N.D.
Sum of DEHP, DBP & BBP ¹	N.D.	0.012	N.D.
Sum of DINP, DIDP, DNOP ²	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

	Results [%]		
Compounds	008	009	010
Bis (2-ethylhexyl) phthalate, DEHP	N.D.	N.D.	N.D.
Dibutyl phthalate, DBP	N.D.	N.D.	N.D.
Benzyl butyl phthalate, BBP	N.D.	N.D.	N.D.
Di-isononyl phthalate, DINP	N.D.	N.D.	N.D.
Di-isodecyl phthalate, DIDP	N.D.	N.D.	N.D.
Di-n-octyl phthalate, DNOP	N.D.	N.D.	N.D.
Sum of DEHP, DBP & BBP ¹	N.D.	N.D.	N.D.
Sum of DINP, DIDP, DNOP ²	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

[1] Restricted sum of DEHP, DBP, & BBP < 0.1% by weight[2] Restricted sum of DINP, DIDP, & DNOP < 0.1% by weight

Note: 1. "N.D." denotes Not Detected 2. "%" denotes percentage by weight 3. "<" denotes less than



3.3 Regulated Phthalates Test

Regulation (EC) No.1907/2006 (REACH) Annex XVII, Entry 51 and 52 (Formerly 2005/84/EC Directive)

Solvent extraction by chloroform and GC-MS analysis.

[Reporting Limit = 0.005 %]

	Results [%]		
Compounds	011	012	013
Bis (2-ethylhexyl) phthalate, DEHP	N.D.	N.D.	N.D.
Dibutyl phthalate, DBP	N.D.	N.D.	N.D.
Benzyl butyl phthalate, BBP	N.D.	N.D.	N.D.
Di-isononyl phthalate, DINP	N.D.	N.D.	N.D.
Di-isodecyl phthalate, DIDP	N.D.	N.D.	N.D.
Di-n-octyl phthalate, DNOP	N.D.	N.D.	N.D.
Sum of DEHP, DBP & BBP ¹	N.D.	N.D.	N.D.
Sum of DINP, DIDP, DNOP ²	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

	Results [%]		
Compounds	014	015	016
Bis (2-ethylhexyl) phthalate, DEHP	N.D.	N.D.	N.D.
Dibutyl phthalate, DBP	N.D.	N.D.	N.D.
Benzyl butyl phthalate, BBP	N.D.	N.D.	N.D.
Di-isononyl phthalate, DINP	N.D.	N.D.	N.D.
Di-isodecyl phthalate, DIDP	N.D.	N.D.	N.D.
Di-n-octyl phthalate, DNOP	N.D.	N.D.	N.D.
Sum of DEHP, DBP & BBP ¹	N.D.	N.D.	N.D.
Sum of DINP, DIDP, DNOP ²	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

	Results [%]		
Compounds	017	018	019
Bis (2-ethylhexyl) phthalate, DEHP	N.D.	N.D.	N.D.
Dibutyl phthalate, DBP	N.D.	N.D.	N.D.
Benzyl butyl phthalate, BBP	N.D.	N.D.	N.D.
Di-isononyl phthalate, DINP	N.D.	N.D.	N.D.
Di-isodecyl phthalate, DIDP	N.D.	N.D.	N.D.
Di-n-octyl phthalate, DNOP	N.D.	N.D.	N.D.
Sum of DEHP, DBP & BBP ¹	N.D.	N.D.	N.D.
Sum of DINP, DIDP, DNOP ²	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

[1] Restricted sum of DEHP, DBP, & BBP < 0.1% by weight[2] Restricted sum of DINP, DIDP, & DNOP < 0.1% by weight

Note: 1. "N.D." denotes Not Detected

- 2. "%" denotes percentage by weight
- 3. "<" denotes less than



3.3 Regulated Phthalates Test

Regulation (EC) No.1907/2006 (REACH) Annex XVII, Entry 51 and 52 (Formerly 2005/84/EC Directive)

Solvent extraction by chloroform and GC-MS analysis.

[Reporting Limit = 0.005 %]

	Results [%]		
Compounds	020	021	022
Bis (2-ethylhexyl) phthalate, DEHP	0.007	N.D.	N.D.
Dibutyl phthalate, DBP	N.D.	N.D.	N.D.
Benzyl butyl phthalate, BBP	N.D.	N.D.	N.D.
Di-isononyl phthalate, DINP	N.D.	N.D.	N.D.
Di-isodecyl phthalate, DIDP	N.D.	N.D.	N.D.
Di-n-octyl phthalate, DNOP	N.D.	N.D.	N.D.
Sum of DEHP, DBP & BBP ¹	0.007	N.D.	N.D.
Sum of DINP, DIDP, DNOP ²	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

	Results [%]	
Compounds	023	
Bis (2-ethylhexyl) phthalate, DEHP	N.D.	
Dibutyl phthalate, DBP	N.D.	
Benzyl butyl phthalate, BBP	N.D.	
Di-isononyl phthalate, DINP	N.D.	
Di-isodecyl phthalate, DIDP	N.D.	
Di-n-octyl phthalate, DNOP	N.D.	
Sum of DEHP, DBP & BBP ¹	N.D.	
Sum of DINP, DIDP, DNOP ²	N.D.	
Conclusion	Pass	

[1] Restricted sum of DEHP, DBP, & BBP < 0.1% by weight[2] Restricted sum of DINP, DIDP, & DNOP < 0.1% by weight

Note: 1. "N.D." denotes Not Detected

- 2. "%" denotes percentage by weight
- 3. "<" denotes less than



3.4 Total Lead Content Test

Consumer Product Safety Improvement Act of 2008 (Section 101) Test in accordance with CPSC-CH-E1003-09.1 (Paint and surface coating), CPSC-CH-E1002-08 (Non-Metallic components) [Reporting Limit = 10.0 mg/kg]

Sample	Result [mg/kg]	Limit [mg/kg]	Conclusion
001	<10.0	<100	Pass
002	<10.0	<90	Pass
003	<10.0	<90	Pass
004	<10.0	<90	Pass
005	<10.0	<90	Pass
006	<10.0	<90	Pass
007	<10.0	<90	Pass
008	<10.0	<90	Pass
009	<10.0	<90	Pass
010	<10.0	<90	Pass
011	<10.0	<90	Pass
012	<10.0	<90	Pass
013	<10.0	<90	Pass
014	<10.0	<90	Pass
015	<10.0	<90	Pass
016	<10.0	<90	Pass
017	<10.0	<90	Pass
018	<10.0	<90	Pass
019	<10.0	<90	Pass
020	<10.0	<90	Pass
021	<10.0	<90	Pass
022	<10.0	<90	Pass
023	<10.0	<90	Pass

Note: 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than



3.5 Total Cadmium Content Test

Regulation (EC) No.1907/2006 (REACH) and its amendment Regulation (EU) No. 494/2011, Annex XVII, Entry 23 Microwave Digestion and followed by Atomic Absorption Spectrophotometer (AAS)

or Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES) [Reporting Limit = 2.0 mg/kg]

Sample	Result [mg/kg]	Limit [mg/kg]	Conclusion
002	<2.0	<1000	Pass
003	<2.0	<1000	Pass
004	<2.0	<1000	Pass
005	<2.0	<1000	Pass
006	<2.0	<1000	Pass
007	<2.0	<1000	Pass
008	<2.0	<1000	Pass
009	<2.0	<1000	Pass
010	<2.0	<1000	Pass
011	<2.0	<1000	Pass
012	<2.0	<1000	Pass
013	<2.0	<1000	Pass
014	<2.0	<1000	Pass
015	<2.0	<1000	Pass
016	<2.0	<1000	Pass
017	<2.0	<1000	Pass
018	<2.0	<1000	Pass
019	<2.0	<1000	Pass
020	<2.0	<1000	Pass
021	<2.0	<1000	Pass
022	<2.0	<1000	Pass
023	<2.0	<1000	Pass

Note:

1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

Material / Product	Limit
Plastics	<100 mg/kg
Metal jewellery / imitation jewellery articles and hair accessories	<100 mg/kg
Brazing Fillers	<100 mg/kg
Coating	<1000 mg/kg
Paint with Zinc content > 10%	<1000 mg/kg
Paint with Zinc Content $\leq 10\%$	Not Detected



3.6 Formaldehyde Content Test (Accessible Wood)

Test in accordance with EN 71 - 9 : 2005+A1:2007 : Organic chemical compounds: Requirement Clause 4.3.3 Formaldehyde According to EN 717-3:1996, formaldehyde content determined by UV-Visible spectroscopy

[Reporting Limit = 10 mg/kg]

Sample	Result [mg/kg]	Maximum Permissible Limit [mg/kg]	Conclusion
001	<10	<80	Pass

Note: 1. "mg/kg" denotes milligram per kilogram 2. "<" denotes less than

TÜV SÜD Hong Kong Ltd TÜV SÜD Group

Tested by:

Mannix Chan Project Manager Chemical Department

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Reviewed by:

Christina Chan Laboratory Manager Chemical Department

- End of Report -

General Terms and Conditions of TÜV SÜD Hong Kong Limited (hereinafter referred to as the company)

General Information and Definitions 1.

- (1.1) In the event that an order for any services is placed, the Client shall accept the General Terms and Conditions. The General Terms and Conditions shall be applicable to all Terms and Conditions. The General Terms and Conditions shall be applicable to all orders, resulting contracts and other arrangements, including all offers made or services provided by the Company or any of its affiliated companies They are not appli-cable if and as far as they are in conflict with the regulations on services performed on behalf of governments, government bodies or any other public entity, or they are in conflict with mandatory provisions of local law. The Client's placement of orders as well as the conclusion of contracts with the Company shall be regarded as aware-ness and acceptance of these General Terms and Conditions.
- The Company strongly recommends any Client or potential Client to read the full text of these General Terms and Conditions prior to placement of any order to or conclusion of any contract with the Company. Ancillary agreements, promises and other statements made on the part of the Company staff or the experts called upon by them shall be bind-ing only if they are expressly confirmed by the Company in writing. This shall also apply to any modifications of this clause. (1.2)

Provision of Services 2

- (2.1) With due care and skill, the Company will provide services according to Client's specific instructions as made available by the Client. In the absence of Client's specific instructions, the following is deemed as instructions given to the Company:
 (a) The terms of any standard specification sheet or standard order form provided by the order of the company of the terms of any standard specification sheet or standard order form provided by the order of the terms of any standard specification sheet or standard order form provided by the order of the terms of any standard specification sheet or standard order form provided by the order of the terms of any standard specification sheet or standard order form provided by the order of the terms of any standard specification sheet or standard order form provided by the order of the terms of any standard specification sheet or standard order form provided by the order of the terms of any standard specification sheet or standard order form provided by the order of the terms of any standard specification sheet or standard order form provided by the order of the terms of any standard specification sheet or standard order form provided by the order of the terms of any standard specification sheet or standard order form provided by the order of the terms of any standard specification sheet or standard order form provided by the order of terms of any standard specification sheet or s
 - Company; and/or
 - Any relevant usage, practice or trade custom; and/or Such methods the Company considers technically, operationally and/or on financial
 - grounds appropriate.
- (2.2) No other party is entitled to give any instructions particularly on the scope and type of the services or the reports delivered, or on the resulting certificates (the "Reports of Findings"), unless the Company receives prior written instructions to the contrary from the Client. The
- Unless the Company receives prior Written instructions to the contrary from the Client. The Client hereby irrevocably authorizes the Company to deliver Reports of Findings to a third party where so instructed by the Client or, at the Company's discretion, where it implicitly fol-lows from circumstances, trade custom, usage or practice. The Information stated in the Report of Findings is derived from the results of inspection or testing procedures carried out in accordance with the instructions and/or Company's as-sessment of such results on the basis of any technical standards, trade custom or prac-tice, or other circumstances which should in Company's professional experience be taken into account. (2.3)nto account
- Reports of Findings issued after the testing of samples refer the Company's opinion only on
- Reports of initiality is studied and to the lessing of samples relief the company's spinitor with the samples under testing and not to the lof from which the samples were drawn. Client agrees that the Company's sole responsibility is to be present at the time of the third party's intervention and to forward the results, or confirm the occurrence of the intervention, in case Client requests the Company to witness any third party's intervention. Client agrees that the Company will use the test methods for analysis as requested in the request form, and if none is stated in the form, the Company will choose the appropriate test method for analysis. (2.5)methods for analysis.
- methods for analysis. The Reports of Findings issued by the Company will reflect the facts as recorded by it at the time of its intervention only and within the limits of the instructions received or, in the absence of such instructions, within the limits of the alternative parameters applied as provided for in Clause 2.1. The Company is under no obligation to refer to, or report upon, any facts or circumstances, which are outside the specific instructions received or al-ternative parameters applied. The performance of all or part of the services may be delegated to an agent or subcon-tractor by the Company. The Client authorizes the Company to disclose all information ne-cessary for such performance to the agent or subcontractor. Documents reflecting engagements contracted between the Client and third parties or third party documents, e.a. sales contract copies, letters of credit, bills of lading, etc. should be (2.6)
- (2.7)
- (2.8)(2.8) Documents reflecting engagements contracted between the Client and third parties or third party documents, e.g. sales contract copies, letters of credit, bills of lading, etc. should be made available to the Company. These are considered to be for information only, and do not extend or restrict the scope of the services or the obligations accepted by the Company.
 (2.9) The Company agrees that, by providing the services to the Client, it neither takes the place of Client or any third party, nor otherwise assumes, abridges, abrogates or undertakes to discharge any duty of the Client to any third party or that of any third party to the Client. Also, it does not release the Client or any third party from any of their obligations.
 (2.10) Depending on the nature of each sample, all samples given to the Company shall be retained for a maximum of 3 months or for such other shorter time period as the nature of the sample permits, and then sent back to Client or otherwise disposed of at the Company will not be responsible for the samples. Storage
- If the sample perfinits, and then sent obtain to Chern to Chern to Chern to Chern to Chern to Mark Starberg and the samples. Storage of samples for more than 3 months shall incur a storage fee payable by the Client. If sam-ples are returned to the Client, the Client will be billed a handing and freight fees. Special disposal charges will be billed to the Client if incurred.

3. Client's Obligations

The Client shall

- ensure that all required supporting documents, information and instructions as submitted are accurate, trueful and complete. These information are to be submitted in a timely not later than 2 working days from the date of which the services are requested by the (3.1)Client
- client ensure to give all necessary access for the Company's representatives to the premis-es where the services are to be performed and to take all necessary steps to eliminate or reme-dy any dostades to, or interruptions in the performance of the services; make available any special equipment and personnel necessary for the performance of the (3.2)
- (3.3) services, if required;
- services, if required;
 (3.4) ensure that for the safety and security of working conditions, sites and installations, all necessary measures are taken during the performance of services. In this respect, the Client will not rely on the Company's advice whether required or not;
 (3.5) inform the Company of any known hazards or dangers, actual or potential, associated with any order, samples, testing or any other service rendered by the Company well in advance. Those are, but are not limited to the presence or risk of radiation, environmental pollution or poisons-toxic or noxious or explosive elements or materials;
 (3.6) fully exercise all its rights and discharge all its liabilities under any relevant sales or other contract with a third nark.
- contract with a third party

4. Fees and Payment

- (4.1) All Fees not agreed on between the Company and Client at the time the order is placed or a contract is concluded shall be determined by the Company's Schedule of Fees (which are subject to change). All applicable taxes shall be paid by Client, as far as mandatory laws do not provide otherwise.
 (4.2) Unless a specific period is established in the invoice, the Client shall pay upon receiving the invoice, but not later than 30 days from the relevant invoice (the "Due Date").
 (4.3) The Client shall not be entitled to retain or defer due payment of any sums to the Company on account of any dispute, counter claim or set-off against the Company. The Company reserves the right to retain or defer any due payments if any dispute arises with or it raises any counterclaim against the Client. The Company is entitled to set off due payments against payments of the

Client

- (4.4) For the collection of unpaid fees, the Company may decide to bring action in any court with competent jurisdiction. The corresponding collection costs, including at-torney's fees and related costs, shall be borne by the Client, as far as the mandatory local law does not provide otherwise.
- In case of any unforeseen problems or expenses arise while carrying out the ser-vices, the Company informs the Client. In such cases, the Company shall be en-titled to charge additional fees to cover extra time and to invoice extra costs neces-(4.5)
- titled to charge additional tees to cover extra time and to invoce extra costs neces-sarily incurred to complete the services.
 If the Company is unable to perform all or parts of the services for any cause whatsoever beyond the Company's control, including the failure by Client to comp-ly with any of its obligations provided for in the foregoing Clause 3, the Company shall nevertheless be entitled to payments of:
 (1) The amount of all non-refundable expenses incurred by the Company; and
 - (2) A proportion of the agreed fee equal to the proportion of the services actually carried out.

Suspension or Termination of Services 5.

In any case mentioned below, the Company shall be entitled to either suspend or terminate the provision of the services immediately and without any liability:

- (5.1) Failure by the Client to comply with any of its obligations under these General Terms and Conditions and such failure is not remedied within 10 days after a no-tice of such failure has been delivered to the Client; or
- Any suspension of payment, arrangement with creditors, bankruptcy, insol-vency, receivership or cessation of business by Client.

6. Liability and Indemnification

- (6.1) Limitation of Liability
 - Clients seeking a guarantee against loss or damage should obtain appropriate insurance. The Company is neither an insurer nor a guarantor and disclaims all liability in such capacity.
 Reports of Findings are issued on the basis of the information, documents and/or samples provided by, or on behalf of the Client and solely for the benefit of the Client who is obliged to act on the basis of such Reports of Findings. benefit of the other who is opiged to act in the basis of such reports of hide ings. Neither the Company nor any of its staff, agents or subcontractors shall be liable to the Client nor to any third party for any actions taken or not taken on the basis of such Reports of Findings, or for any incorrect results arising from unclear, erroneous, incomplete, misleading or false information pro-
 - trom unclear, erroneous, incomplete, misleading or talse information pro-vided to the Company. For any delayed, total or partial non-performance of the services arising directly or indirectly from any event beyond the Company's control, includ-ing failure by Client to comply with any of its obligations hereunder, the Company shall not be liable. (3)
 - Company shall not be liable. The liability of the Company in respect of any claim for loss, damage or ex-pense of any nature and howsoever arising shall in no circumstances ex-ceed a total aggregate sum equal to 10 times the amount of the fee paid in respect of the specific service which gives rise to such claim, and shall in any case not exceed the equivalent of 25,000 EUR in HKD. For any indirect or consequential loss (including loss of profits), the Compa-ny shall not have any liabilities. In case of any claim, the Client must give written notice to the Compa-ny within 30 days of discovery of the facts with all necessary documents to justify such claim. In any case, the Company shall be discharged from all liability for all claims for loss, damage or expense unless a lawsuit is brought within two years from: (i) the performance date of the Company for its services which refers to the claim; or (4)
 - (5)
 - (6)
 - the claim: or
- the claim; or
 (ii) the date when the service should have been completed in the event of any alleged non-performance.
 (6.2) <u>Indemnification</u>: Against all claims (actual or threatened) by any third party for loss, damage or expenses of whatsoever nature including all legal expenses and related costs and howsoever arising relating to the performance, purported performance or non-performance of any services, the Client shall guarantee, hold performance or non-performance or any services. harmless and indemnify the Company and its officers, employees, agents or sub-

7. Obligation of Confidentiality, Copyright, Data Privacy Protection

- (7.1) The Company shall be authorized to make file copies of written documents, which have been made available to it for review and which are important for
- processing the order. Insofar as Reports of Findings are prepared in the course of processing the order (7.2)and which are subject to the protection of copyright, then the Company shall grant the Client a simple, non-transferable right to use, insofar as this is neces-sary and in accordance with the contractually presupposed purpose. Other rights shall not be transferred; in particular, the customer shall not be entitled to modify and/or edit audit reports or to make use of such outside of his business premises.
- (7.3) The Company and its staff which may be called in shall not disclose or use trade and business matters about which they have gained knowledge during the per-formance of their work without proper authorization.

8. Miscellaneous

- (8.1) The validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired, even if any one or more provisions of these General Conditions are found to be illegal or unenforceable in any respect.
- (8.2) Client shall not directly or indirectly entire, encourage or make any offer to Company's employees to leave their employment with the Company, during the course of providing the services and for a period of one year thereafter.
 (8.3) Use of the Company's corporate name or registered marks for advertising pur-
- poses is not permitted without the Company's prior written authorization

Governing Law, Jurisdiction and Dispute Settlement 9.

- (9.1) Unless specifically agreed otherwise, all disputes arising out or in connection
- with contractual relationship(s) hereunder shall be governed by the applicable laws and regulations of the Hong Kong S.A.R Region. Place of performance for any obligation arising out of this contract shall be Hong Kong, the Place of TÜV SÜD Hong Kong Limited, unless otherwise ex-(9.2) pressly agreed by the parties.

10. Languages

In the event of any discrepancy between the English and the Chinese version of these General Terms and Conditions, the English version shall prevail.