



Applicant: Baby Solutions SA
Via Magazzini Generali 10

Test Subject: My Travel Friends!
Style No.: 12004.00

- Purpose of examination:
- (1) **Azo-Dye Test**
Regulation (EC) No. 1907/2006, Annex XVII, Entry 43 and its amendment Regulation (EC) No. 552/2009 (Formerly restricted under 2002/61/EC & 2004/21/EC)
Test in accordance with EN 14362-1:2012 (for textiles) or ISO 17234-1:2010 (for leather).
The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.
[Reporting Limit = 5.0mg/kg]
 - (2) **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]
 - (3) **Regulated Phthalates Test**
Regulation (EC) No.1907/2006 and its amendment Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 51 and 52
Solvent extraction by chloroform and GC-MS analysis.
[Reporting Limit = 0.005 %]
 - (4) **Total Cadmium Content Test**
Regulation (EC) No.1907/2006 (REACH) and its amendment Regulation (EU) No. 494/2011, Annex XVII, Entry 23
EN 1122:2001 Method B and followed by Atomic Absorption Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)
[Reporting Limit = 2.0 mg/kg]

Test result: Refer to section 3

Conclusion:	(1) Azo-Dye Test	Pass
	(2) Polycyclic Aromatic Hydrocarbons (PAH) Content Test	Pass
	(3) Regulated Phthalates Test	Pass
	(4) Total Cadmium Content Test	Pass

Remarks

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) Data of sample 046 was transferred from sample 019 of technical report 60.160.12.14008.02D issued on 2013-01-23.

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.

1. Order

1.1 Customer's Reference

Nil

1.2 Receipt Date of Test Sample, Location

Received on 2012-11-28 and 2013-01-24, Hong Kong

1.3 Date of Testing, Location

From 2012-11-28 to 2013-01-15 and 2013-01-24 to 2013-01-28, Hong Kong


1.4 Document submitted

Nil

2. Description of the test subject

Sample No.	Color and Description	Photograph
001	Light blue plastic (base of doll)	
002	Light green fabric (handle cover, leg of cat, body and leg of tortoise)	
003	Red fabric (edge of handle)	
004	Light green soft plastic (Velcro - hook of handle)	
005	White sponge (inside handle)	
006	Light blue fabric (ribbon of dog, snail)	
007	Light green plastic (butterfly of dog, flower of snail)	
008	Red fabric (ribbon of tortoise, bear)	
009	Orange plastic (case of hand bell, tortoise, bear)	
010	Transparent plastic (case of hand bell, tortoise, cat, bear)	
011	Yellow plastic (ball inside hand bell, tortoise, cat, bear)	
012	Pale orange plastic (ball inside hand bell, tortoise, cat, bear)	
013	Red plastic (ball inside hand bell, tortoise, cat, bear)	
014	Purple plastic (ball inside hand bell, tortoise, bear)	
015	Blue plastic (ball inside hand bell, tortoise, cat, bear)	
016	Light green plastic (ball inside hand bell, tortoise, cat, bear)	
017	Bright yellow fabric (ribbon of cat)	
018	Yellow fabric (edge of hand bell)	
019	Light blue plastic (edge of hand bell)	
020	Pale yellow plastic (flower inside hand bell)	

2. Description of the test subject

Sample No.	Color and Description	Photograph
021	White sponge (inside doll)	
022	Orange fabric with multicolor thread (body and leg of dog, leg of dog, cat, bear, tail of bear)	
023	Light brown fabric (body of dog)	
024	White plastic (inside nose of dog)	
025	Translucent plastic (inside nose of dog)	
026	Green fabric with multi-color thread (head of tortoise)	
027	Green fabric with white dot pattern (body of tortoise)	
028	Sky blue fabric (body of tortoise)	
029	Wine red fabric with multicolor thread (head and body of cat)	
030	Multicolor fabric (tail of cat)	
031	Blue green fabric (handle cover, tail of tortoise, leg of owl)	
032	Orange fabric (edge of handle)	
033	Blue green soft plastic (Velcro - hook of handle)	
034	Black fabric (ribbon of owl)	
035	Orange plastic (flower of owl)	
036	Sky blue fabric (wing of owl)	
037	Pale orange fabric with white dot pattern (body of owl)	
038	Orange fabric (body of owl)	
039	Pink/ black/ blue green fabric with multicolor thread (head and body of owl)	
040	Brown/ pink/ orange fabric with multicolor thread (head and body of bear)	
041	Light blue fabric (neckerchief of bear, ears of owl, tail of snail)	
042	Blue fabric (leg of bear)	
043	Black fabric with white and green thread (eyes of snail)	
044	Black fabric with pink and light green thread (head of snail, nose of dog)	
045	Blue fabric with white dot pattern (body of snail)	
046	Brown fabric with brown/ pink thread (body of snail)	



3. Test Results

3.1 Azo-Dye Test

Regulation (EC) No. 1907/2006, Annex XVII, Entry 43 and its amendment Regulation (EC) No. 552/2009 (Formerly restricted under 2002/61/EC & 2004/21/EC)

Test in accordance with EN 14362-1:2012 (for textiles) or ISO 17234-1:2010 (for leather).

The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

[Reporting Limit = 5.0mg/kg]

List of Aromatic Amines

Forbidden Amine	Results [mg/kg]		
	002+003+006	008+017+018	022
01 4-aminobiphenyl	<5.0	<5.0	<5.0
02 Benzidine	<5.0	<5.0	<5.0
03 4-chloro-o-toluidine	<5.0	<5.0	<5.0
04 2-naphthylamine	<5.0	<5.0	<5.0
05 p-aminoazotoluene	<5.0	<5.0	<5.0
06 5-nitro-o-toluidine	<5.0	<5.0	<5.0
07 4-chloroaniline	<5.0	<5.0	<5.0
08 2,4-diaminoanisole	<5.0	<5.0	<5.0
09 4,4'-diaminodiphenylmethane	<5.0	<5.0	<5.0
10 3,3'-dichlorobenzidine	<5.0	<5.0	<5.0
11 3,3'-dimethoxybenzidine	<5.0	<5.0	<5.0
12 3,3'-dimethylbenzidine	<5.0	<5.0	<5.0
13 4,4'-methylenedi-o-toluidine	<5.0	<5.0	<5.0
14 p-cresidine	<5.0	<5.0	<5.0
15 4,4'-methylene-bis-(2-chloro-aniline)	<5.0	<5.0	<5.0
16 4,4'-oxydianiline	<5.0	<5.0	<5.0
17 4,4'-thiodianiline	<5.0	<5.0	<5.0
18 o-toluidine	<5.0	<5.0	<5.0
19 2,4-toluenediamine	<5.0	<5.0	<5.0
20 2,4,5-trimethylaniline	<5.0	<5.0	<5.0
21 2-methoxyaniline	<5.0	<5.0	<5.0
22 2,4-xylydine [#]	<5.0	<5.0	<5.0
23 2,6-xylydine [#]	<5.0	<5.0	<5.0
24 4-aminoazobenzene*	<5.0	<5.0	<5.0
Method	EN14362-1:2012	EN14362-1:2012	EN14362-1:2012
Limit (Not applicable to composite testing)	<30	<30	<30
Conclusion	Pass	Pass	Pass

- Note:
1. “#” denotes 2,4-xylydine and 2,6-xylydine are not under Regulation (EC) No.1907/2006 and they are for client’s reference.
 2. “<” denotes less than
 3. “mg/kg” denotes milligram per kilogram

* Azo colorants that are able to form 4-aminoazobenzene, as generated under the current testing condition stated in EN 14362-1:2012 are aniline and 1,4-phenylenediamine. The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤ 30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.



3.1 Azo-Dye Test

Regulation (EC) No. 1907/2006, Annex XVII, Entry 43 and its amendment Regulation (EC) No. 552/2009 (Formerly restricted under 2002/61/EC & 2004/21/EC)

Test in accordance with EN 14362-1:2012 (for textiles) or ISO 17234-1:2010 (for leather).

The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

[Reporting Limit = 5.0mg/kg]

List of Aromatic Amines

Forbidden Amine	Results [mg/kg]		
	023+028+031	026	027
01 4-aminobiphenyl	<5.0	<5.0	<5.0
02 Benzidine	<5.0	<5.0	<5.0
03 4-chloro-o-toluidine	<5.0	<5.0	<5.0
04 2-naphthylamine	<5.0	<5.0	<5.0
05 o-aminoazotoluene	<5.0	<5.0	<5.0
06 5-nitro-o-toluidine	<5.0	<5.0	<5.0
07 4-chloroaniline	<5.0	<5.0	<5.0
08 2,4-diaminoanisole	<5.0	<5.0	<5.0
09 4,4'-diaminodiphenylmethane	<5.0	<5.0	<5.0
10 3,3'-dichlorobenzidine	<5.0	<5.0	<5.0
11 3,3'-dimethoxybenzidine	<5.0	<5.0	<5.0
12 3,3'-dimethylbenzidine	<5.0	<5.0	<5.0
13 4,4'-methylenedi-o-toluidine	<5.0	<5.0	<5.0
14 p-cresidine	<5.0	<5.0	<5.0
15 4,4'-methylene-bis-(2-chloro-aniline)	<5.0	<5.0	<5.0
16 4,4'-oxydianiline	<5.0	<5.0	<5.0
17 4,4'-thiodianiline	<5.0	<5.0	<5.0
18 o-toluidine	<5.0	<5.0	<5.0
19 2,4-toluenediamine	<5.0	<5.0	<5.0
20 2,4,5-trimethylaniline	<5.0	<5.0	<5.0
21 2-methoxyaniline	<5.0	<5.0	<5.0
22 2,4-xylidine [#]	<5.0	<5.0	<5.0
23 2,6-xylidine [#]	<5.0	<5.0	<5.0
24 4-aminoazobenzene*	<5.0	<5.0	<5.0
Method	EN14362-1:2012	EN14362-1:2012	EN14362-1:2012
Limit (Not applicable to composite testing)	<30	<30	<30
Conclusion	Pass	Pass	Pass

- Note:
1. “#” denotes 2,4-xylidine and 2,6-xylidine are not under Regulation (EC) No.1907/2006 and they are for client’s reference.
 2. “<” denotes less than
 3. “mg/kg” denotes milligram per kilogram

* Azo colorants that are able to form 4-aminoazobenzene, as generated under the current testing condition stated in EN 14362-1:2012 are aniline and 1,4-phenylenediamine. The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.



3.1 Azo-Dye Test

Regulation (EC) No. 1907/2006, Annex XVII, Entry 43 and its amendment Regulation (EC) No. 552/2009 (Formerly restricted under 2002/61/EC & 2004/21/EC)

Test in accordance with EN 14362-1:2012 (for textiles) or ISO 17234-1:2010 (for leather).

The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

[Reporting Limit = 5.0mg/kg]

List of Aromatic Amines

Forbidden Amine	Results [mg/kg]		
	029	030	032+034+036
01 4-aminobiphenyl	<5.0	<5.0	<5.0
02 Benzidine	<5.0	<5.0	<5.0
03 4-chloro-o-toluidine	<5.0	<5.0	<5.0
04 2-naphthylamine	<5.0	<5.0	<5.0
05 o-aminoazotoluene	<5.0	<5.0	<5.0
06 5-nitro-o-toluidine	<5.0	<5.0	<5.0
07 4-chloroaniline	<5.0	<5.0	<5.0
08 2,4-diaminoanisole	<5.0	<5.0	<5.0
09 4,4'-diaminodiphenylmethane	<5.0	<5.0	<5.0
10 3,3'-dichlorobenzidine	<5.0	<5.0	<5.0
11 3,3'-dimethoxybenzidine	<5.0	<5.0	<5.0
12 3,3'-dimethylbenzidine	<5.0	<5.0	<5.0
13 4,4'-methylenedi-o-toluidine	<5.0	<5.0	<5.0
14 p-cresidine	<5.0	<5.0	<5.0
15 4,4'-methylene-bis-(2-chloro-aniline)	<5.0	<5.0	<5.0
16 4,4'-oxydianiline	<5.0	<5.0	<5.0
17 4,4'-thiodianiline	<5.0	<5.0	<5.0
18 o-toluidine	<5.0	<5.0	<5.0
19 2,4-toluediamine	<5.0	<5.0	<5.0
20 2,4,5-trimethylaniline	<5.0	<5.0	<5.0
21 2-methoxyaniline	<5.0	<5.0	<5.0
22 2,4-xylydine [#]	<5.0	<5.0	<5.0
23 2,6-xylydine [#]	<5.0	<5.0	<5.0
24 4-aminoazobenzene*	<5.0	<5.0	<5.0
Method	EN14362-1:2012	EN14362-1:2012	EN14362-1:2012 EN14362-3
Limit (Not applicable to composite testing)	<30	<30	<30
Conclusion	Pass	Pass	Pass

- Note:
1. “#” denotes 2,4-xylydine and 2,6-xylydine are not under Regulation (EC) No.1907/2006 and they are for client’s reference.
 2. “<” denotes less than
 3. “mg/kg” denotes milligram per kilogram

* Azo colorants that are able to form 4-aminoazobenzene, as generated under the current testing condition stated in EN 14362-1:2012 are aniline and 1,4-phenylenediamine. The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.



3.1 Azo-Dye Test

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Test in accordance with EN 14362-1:2012 (for textiles) or ISO 17234-1:2010 (for leather).

The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

[Reporting Limit = 5.0mg/kg]

List of Aromatic Amines

Forbidden Amine	Results [mg/kg]		
	037	038+041+042	039
01 4-aminobiphenyl	<5.0	<5.0	<5.0
02 Benzidine	<5.0	<5.0	<5.0
03 4-chloro-o-toluidine	<5.0	<5.0	<5.0
04 2-naphthylamine	<5.0	<5.0	<5.0
05 o-aminoazotoluene	<5.0	<5.0	<5.0
06 5-nitro-o-toluidine	<5.0	<5.0	<5.0
07 4-chloroaniline	<5.0	<5.0	<5.0
08 2,4-diaminoanisole	<5.0	<5.0	<5.0
09 4,4'-diaminodiphenylmethane	<5.0	<5.0	<5.0
10 3,3'-dichlorobenzidine	<5.0	<5.0	<5.0
11 3,3'-dimethoxybenzidine	<5.0	<5.0	<5.0
12 3,3'-dimethylbenzidine	<5.0	<5.0	<5.0
13 4,4'-methylenedi-o-toluidine	<5.0	<5.0	<5.0
14 p-cresidine	<5.0	<5.0	<5.0
15 4,4'-methylene-bis-(2-chloro-aniline)	<5.0	<5.0	<5.0
16 4,4'-oxydianiline	<5.0	<5.0	<5.0
17 4,4'-thiodianiline	<5.0	<5.0	<5.0
18 o-toluidine	<5.0	<5.0	<5.0
19 2,4-toluenediamine	<5.0	<5.0	<5.0
20 2,4,5-trimethylaniline	<5.0	<5.0	<5.0
21 2-methoxyaniline	<5.0	<5.0	<5.0
22 2,4-xylidine [#]	<5.0	<5.0	<5.0
23 2,6-xylidine [#]	<5.0	<5.0	<5.0
24 4-aminoazobenzene*	<5.0	<5.0	<5.0
Method	EN14362-1:2012	EN14362-1:2012	EN14362-1:2012
Limit (Not applicable to composite testing)	<30	<30	<30
Conclusion	Pass	Pass	Pass

- Note:
1. “#” denotes 2,4-xylidine and 2,6-xylidine are not under Regulation (EC) No.1907/2006 and they are for client’s reference.
 2. “<” denotes less than
 3. “mg/kg” denotes milligram per kilogram

* Azo colorants that are able to form 4-aminoazobenzene, as generated under the current testing condition stated in EN 14362-1:2012 are aniline and 1,4-phenylenediamine. The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
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Test in accordance with EN 14362-1:2012 (for textiles) or ISO 17234-1:2010 (for leather).

The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

[Reporting Limit = 5.0mg/kg]

List of Aromatic Amines

Forbidden Amine	Results [mg/kg]		
	040	043	044
01 4-aminobiphenyl	<5.0	<5.0	<5.0
02 Benzidine	<5.0	<5.0	<5.0
03 4-chloro-o-toluidine	<5.0	<5.0	<5.0
04 2-naphthylamine	<5.0	<5.0	<5.0
05 o-aminoazotoluene	<5.0	<5.0	<5.0
06 5-nitro-o-toluidine	<5.0	<5.0	<5.0
07 4-chloroaniline	<5.0	<5.0	<5.0
08 2,4-diaminoanisole	<5.0	<5.0	<5.0
09 4,4'-diaminodiphenylmethane	<5.0	<5.0	<5.0
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17 4,4'-thiodianiline	<5.0	<5.0	<5.0
18 o-toluidine	<5.0	<5.0	<5.0
19 2,4-toluediamine	<5.0	<5.0	<5.0
20 2,4,5-trimethylaniline	<5.0	<5.0	<5.0
21 2-methoxyaniline	<5.0	<5.0	<5.0
22 2,4-xylydine [#]	<5.0	<5.0	<5.0
23 2,6-xylydine [#]	<5.0	<5.0	<5.0
24 4-aminoazobenzene*	<5.0	<5.0	<5.0
Method	EN14362-1:2012	EN14362-1:2012 EN14362-3	EN14362-1:2012 EN14362-3
Limit (Not applicable to composite testing)	<30	<30	<30
Conclusion	Pass	Pass	Pass

- Note:
1. “#” denotes 2,4-xylydine and 2,6-xylydine are not under Regulation (EC) No.1907/2006 and they are for client’s reference.
 2. “<” denotes less than
 3. “mg/kg” denotes milligram per kilogram

* Azo colorants that are able to form 4-aminoazobenzene, as generated under the current testing condition stated in EN 14362-1:2012 are aniline and 1,4-phenylenediamine. The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.



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The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

[Reporting Limit = 5.0mg/kg]

List of Aromatic Amines

Forbidden Amine	Results [mg/kg]	
	045	046
01 4-aminobiphenyl	<5.0	<5.0
02 Benzidine	<5.0	<5.0
03 4-chloro-o-toluidine	<5.0	<5.0
04 2-naphthylamine	<5.0	<5.0
05 o-aminoazotoluene	<5.0	<5.0
06 5-nitro-o-toluidine	<5.0	<5.0
07 4-chloroaniline	<5.0	<5.0
08 2,4-diaminoanisole	<5.0	<5.0
09 4,4'-diaminodiphenylmethane	<5.0	<5.0
10 3,3'-dichlorobenzidine	<5.0	<5.0
11 3,3'-dimethoxybenzidine	<5.0	<5.0
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13 4,4'-methylenedi-o-toluidine	<5.0	<5.0
14 p-cresidine	<5.0	<5.0
15 4,4'-methylene-bis-(2-chloro-aniline)	<5.0	<5.0
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18 o-toluidine	<5.0	<5.0
19 2,4-toluenediamine	<5.0	<5.0
20 2,4,5-trimethylaniline	<5.0	<5.0
21 2-methoxyaniline	<5.0	<5.0
22 2,4-xylydine [#]	<5.0	<5.0
23 2,6-xylydine [#]	<5.0	<5.0
24 4-aminoazobenzene*	<5.0	<5.0
Method	EN14362-1:2012	EN14362-1:2012
Limit (Not applicable to composite testing)	<30	<30
Conclusion	Pass	Pass

- Note:
1. “#” denotes 2,4-xylydine and 2,6-xylydine are not under Regulation (EC) No.1907/2006 and they are for client’s reference.
 2. “<” denotes less than
 3. “mg/kg” denotes milligram per kilogram

* Azo colorants that are able to form 4-aminoazobenzene, as generated under the current testing condition stated in EN 14362-1:2012 are aniline and 1,4-phenylenediamine. The presence of 4-aminoazobenzene is determined by EN 14362-3:2012 or ISO 17234-2:2011.

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤ 30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.



3.2 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]

Compounds	Results [mg/kg]			
	001^	004	007^	009
Naphthalene	<0.10	<0.10	<0.10	<0.10
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	<0.20	<0.20	<0.20	<0.20
Category	Category 1	Category 1	Category 1	Category 1
Conclusion	Pass	Pass	Pass	Pass

- Note:
1. "<" denotes less than
 2. "mg/kg" denotes milligram per kilogram
 3. "^" denotes samples were received on 2013-01-24
 4. Limits for PAH in product according to ZEK 01.4-08

Parameter (mg/kg)	Category 1	Category 2	Category 3
	Materials intended to be put in the mouth or materials of toys for children aged < 36 months with intended skin contact [#]	Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact)	Materials not covered by category 1 or 2 with foreseeable 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

* If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 and § 64 LFGB 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.

[#] according to the regulations of the EK2.



3.2 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]

Compounds	Results [mg/kg]			
	010	019^	033	035^
Naphthalene	<0.10	<0.10	0.12	<0.10
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	<0.20	<0.20	<0.20	<0.20
Category	Category 1	Category 1	Category 1	Category 1
Conclusion	Pass	Pass	Pass	Pass

- Note:
1. "<" denotes less than
 2. "mg/kg" denotes milligram per kilogram
 3. "^" denotes samples were received on 2013-01-24
 4. Limits for PAH in product according to ZEK 01.4-08

Parameter (mg/kg)	Category 1	Category 2	Category 3
	Materials intended to be put in the mouth or materials of toys for children aged < 36 months with intended skin contact [#]	Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact)	Materials not covered by category 1 or 2 with foreseeable 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

* If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 and § 64 LFGB 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.

[#] according to the regulations of the EK2.



3.3 Regulated Phthalates Test

Regulation (EC) No.1907/2006 and its amendment

Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 51 and 52

Solvent extraction by chloroform and GC-MS analysis.

[Reporting Limit = 0.005 %]

Compounds	Results [%]		
	001+004+007	009+010+019	033+035
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 & BBP¹	N.D.	N.D.	N.D.
Sum of DINP, DIDP, DNOP²	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Compounds	Results [%]		
	005+011+012	013+014+015	016+020+021
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.
Sum of DEHP, DBP & BBP¹	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Compounds	Results [%]
	024+025
Dibutyl phthalate, (DBP)	N.D.
Benzyl butyl phthalate, (BBP)	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	N.D.
Sum of DEHP, DBP & BBP¹	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 Cadmium Content Test

Regulation (EC) No.1907/2006 (REACH) and its amendment Regulation (EU) No. 494/2011, Annex XVII, Entry 23

EN 1122:2001 Method B 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
001+004+007	<2.0	<100	Pass
005+011+012	<2.0	<100	Pass
009+010+019	<2.0	<100	Pass
013+014+015	<2.0	<100	Pass
016+020+021	<2.0	<100	Pass
024+025	<2.0	<100	Pass
033+035	<2.0	<100	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 ≤ 10%	Not Detected

TÜV SÜD Hong Kong Ltd
TÜV SÜD Group

Tested by:

Mannix Chan
Project Manager
Chemical Department



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*)

1. General Information and Definitions

- (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 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 applicable 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 awareness and acceptance of these General Terms and Conditions.
- (1.2) 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 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 binding only if they are expressly confirmed by the Company in writing. This shall also apply to any modifications of this clause.

2. Provision of Services

- (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 Company; and/or
- (b) Any relevant usage, practice or trade custom; and/or
- (c) 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 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 follows from circumstances, trade custom, usage or practice.
- (2.3) 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 assessment of such results on the basis of any technical standards, trade custom or practice, or other circumstances which should in Company's professional experience be taken into account.
- (2.4) Reports of Findings issued after the testing of samples refer the Company's opinion only on samples under testing and not to the lot from which the samples were drawn.
- (2.5) 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 methods for analysis.
- (2.6) 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 alternative parameters applied.
- (2.7) The performance of all or part of the services may be delegated to an agent or subcontractor by the Company. The Client authorizes the Company to disclose all information necessary for such performance to the agent or subcontractor.
- (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's discretion. After that time the Company will not be responsible for the samples. Storage of samples for more than 3 months shall incur a storage fee payable by the Client. If samples are returned to the Client, the Client will be billed a handling and freight fees. Special disposal charges will be billed to the Client if incurred.

3. Client's Obligations

The Client shall:

- (3.1) ensure that all required supporting documents, information and instructions as submitted are accurate, truthful 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 Client
- (3.2) ensure to give all necessary access for the Company's representatives to the premises where the services are to be performed and to take all necessary steps to eliminate or remedy any obstacles to, or interruptions in the performance of the services;
- (3.3) make available any special equipment and personnel necessary for the performance of the 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 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 date or within such other period as may be established by the Company in the 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 attorney's fees and related costs, shall be borne by the Client, as far as the mandatory local law does not provide otherwise.
- (4.5) In case of any unforeseen problems or expenses arise while carrying out the services, the Company informs the Client. In such cases, the Company shall be entitled to charge additional fees to cover extra time and to invoice extra costs necessarily incurred to complete the services.
- (4.6) 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 comply 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.

5. Suspension or Termination of Services

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 notice of such failure has been delivered to the Client; or
- (5.2) Any suspension of payment, arrangement with creditors, bankruptcy, insolvency, receivership or cessation of business by Client.

6. Liability and Indemnification

(6.1) Limitation of Liability:

- (1) 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.
- (2) 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. 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 provided to the Company.
- (3) For any delayed, total or partial non-performance of the services arising directly or indirectly from any event beyond the Company's control, including failure by Client to comply with any of its obligations hereunder, the Company shall not be liable.
- (4) The liability of the Company in respect of any claim for loss, damage or expense of any nature and howsoever arising shall in no circumstances exceed 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.
- (5) For any indirect or consequential loss (including loss of profits), the Company shall not have any liabilities.
- (6) In case of any claim, the Client must give written notice to the Company 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
- (ii) the date when the service should have been completed in the event of any alleged non-performance.

- (6.2) Indemnification: 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 harmless and indemnify the Company and its officers, employees, agents or subcontractors.

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.
- (7.2) Insofar as Reports of Findings are prepared in the course of processing the order 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 necessary 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 performance 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 entice, 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 purposes is not permitted without the Company's prior written authorization.

9. Governing Law, Jurisdiction and Dispute Settlement

- (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.
- (9.2) 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 expressly 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.