



**Test Report**

**No. SH7155418/TX**

**Date: Jan 7, 2008**

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KOS Promopack Co.,Ltd

FLOOR 6, NO. 7A, HUANGHE SOUTH STREET, HUANGGU DISTRICT, SHENYANG CITY, CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : One sample of bag (body: polypropylene tube: PVC) in multicolor

Buyer : Commercial Intl Trading

Style No. : 20477/ 20632

Order No. : NO. 01161007/ NO. 02161007

L/C No. : NAN182326V

Manufacturer : KOS Promopack Co.,Ltd

Country of Destination : France

Test Performed : Selected test(s) as requested by applicant

\* \* \* \* \*

Sample Receiving Date : DEC. 22, 2008

Testing Period : JAN. 04, 2008 - JAN. 07, 2008

Test Result(s) : For further details, please refer to the following page(s).

Conclusion :

Azo \*

Cadmium (Cd) Content \*

Handle Traction M

Remark: M=Meet Client's Requirement \* =No Specified Requirement

Signed for and on behalf of  
SGS-CSTC Ltd.

Joyce Li (Account Executive)

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**Test Result**
**Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants**

As per EN 14362-1: 2003 - Direct test on coloured textiles – Detection of the use of certain azo colorants are accessible to reducing agents without extraction with the use of Gas Chromatographic Mass Spectrometry (GC-MS)

No.	<u>Forbidden Amines Substances</u>	<u>CAS-No.</u>	<u>Result</u> (red/ orange / rose)
1.	4-aminodiphenyl/xenylamine/ Biphenyl-4-ylamine	92-67-1	ND
2.	Benzidine	92-87-5	ND
3.	4-chlor- <i>o</i> -toluidine	95-69-2	ND
4.	2-naphthylamine	91-59-8	ND
5.	<i>o</i> -aminoazotoluene/ 4- <i>o</i> -tolylazo- <i>o</i> -toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	ND
6.	2-amino-4-nitrotoluol/5-nitro- <i>o</i> -toluidine	99-55-8	ND
7.	<i>p</i> -chloranilin/4-chloroaniline	106-47-8	ND
8.	2,4-diaminoanisol/ 4-methoxy- <i>m</i> -phenylenediamine	615-05-4	ND
9.	4,4'-diaminodiphenylmethane/ 4,4-methylenedianiline	101-77-9	ND
10.	3,3'-dichlorobenzidine/ 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	ND
11.	3,3'-dimethoxybenzidine/ <i>o</i> -dianisidine	119-90-4	ND
12.	3,3'-dimethybenzidine/4,4'-bi- <i>o</i> -Toluidine	119-93-7	ND
13.	3,3'-dimethyl-4,4'-diaminodipenylmethane/ 4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND
14.	<i>p</i> -cresidin/6-methoxy- <i>m</i> -toluidine	120-71-8	ND
15.	4,4'-methylen-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	ND
16.	4,4'-oxydianiline	101-80-4	ND
17.	4,4'-thiodianiline	139-65-1	ND
18.	<i>o</i> -toluidine/2-aminotoluene	95-53-4	ND
19.	2,4-toluylendiamine/ 4-methyl- <i>m</i> -phenylenediamine	95-80-7	ND
20.	2,4,5-trimethylaniline	137-17-7	ND
21.	4-aminoazobenzene*	60-09-3	ND
22.	<i>o</i> -anisidine/ 2-methoxyaniline	90-04-0	ND
23.	2,4-Xylidine	95-68-1	ND
24.	2,6-Xylidine	87-62-7	ND
	<b>Overall Rating</b>		<b>#</b>

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## Test Report

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Note : ND = Not Detectable                      Detection limit = 5 ppm (mg/kg)

# Remark: For textiles no relevant amine exceeding 30 ppm (mg/kg) is required, the test method is applicable for textile and the result is only for client's information.

\*: If the EN 14362-1 method enabled further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline or 1,4-phenylenediamine, therefore, the test method of LFGB § 64 BVL B 82.02.9 would be employed to verify the presence of 4-aminoazobenzene

If the amines are detected by GC-MS method, then confirmation must be made using TLC method.

### Forbidden Arylamines for Azo Dye Regulations

- No. 1-22 – Commission of the European Communities: Directive 2002/61/EC adopted by the Council on 19 July 2002
- No. 23-24 – Client requirement

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**Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants**

As per EN 14362-1: 2003 - Direct test on coloured textiles – Detection of the use of certain azo colorants are accessible to reducing agents without extraction with the use of Gas Chromatographic Mass Spectrometry (GC-MS)

No.	Forbidden Amines Substances	CAS-No.	Result (Yellow/ green/ light green)
1.	4-aminodiphenyl/xenylamine/ Biphenyl-4-ylamine	92-67-1	ND
2.	Benzidine	92-87-5	ND
3.	4-chlor- <i>o</i> -toluidine	95-69-2	ND
4.	2-naphthylamine	91-59-8	ND
5.	<i>o</i> -aminoazotoluene/ 4- <i>o</i> -tolylazo- <i>o</i> -toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	ND
6.	2-amino-4-nitrotoluol/5-nitro- <i>o</i> -toluidine	99-55-8	ND
7.	<i>p</i> -chloranilin/4-chloroaniline	106-47-8	ND
8.	2,4-diaminoanisol/ 4-methoxy- <i>m</i> -phenylenediamine	615-05-4	ND
9.	4,4'-diaminodiphenylmethane/ 4,4-methylenedianiline	101-77-9	ND
10.	3,3'-dichlorobenzidine/ 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	ND
11.	3,3'-dimethoxybenzidine/ <i>o</i> -dianisidine	119-90-4	ND
12.	3,3'-dimethybenzidine/4,4'-bi- <i>o</i> -Toluidine	119-93-7	ND
13.	3,3'-dimethyl-4,4'-diaminodipenylmethane/ 4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND
14.	<i>p</i> -cresidin/6-methoxy- <i>m</i> -toluidine	120-71-8	ND
15.	4,4'-methylen-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	ND
16.	4,4'-oxydianiline	101-80-4	ND
17.	4,4'-thiodianiline	139-65-1	ND
18.	<i>o</i> -toluidine/2-aminotoluene	95-53-4	ND
19.	2,4-toluylendiamine/ 4-methyl- <i>m</i> -phenylenediamine	95-80-7	ND
20.	2,4,5-trimethylaniline	137-17-7	ND
21.	4-aminoazobenzene*	60-09-3	ND
22.	<i>o</i> -anisidine/ 2-methoxyaniline	90-04-0	ND
23.	2,4-Xylidine	95-68-1	ND
24.	2,6-Xylidine	87-62-7	ND
<b>Overall Rating</b>			<b>#</b>

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Note : ND = Not Detectable                      Detection limit = 5 ppm (mg/kg)

# Remark: For textiles no relevant amine exceeding 30 ppm (mg/kg) is required, the test method is applicable for textile and the result is only for client's information.

\*: If the EN 14362-1 method enabled further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline or 1,4-phenylenediamine, therefore, the test method of LFGB § 64 BVL B 82.02.9 would be employed to verify the presence of 4-aminoazobenzene

If the amines are detected by GC-MS method, then confirmation must be made using TLC method.

#### **Forbidden Arylamines for Azo Dye Regulations**

- No. 1-22 – Commission of the European Communities: Directive 2002/61/EC adopted by the Council on 19 July 2002
- No. 23-24 – Client requirement

**Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants**

As per EN 14362-1: 2003 - Direct test on coloured textiles – Detection of the use of certain azo colorants are accessible to reducing agents without extraction with the use of Gas Chromatographic Mass Spectrometry (GC-MS)

No.	Forbidden Amines Substances	CAS-No.	Result (Blue/ dark green/ brown)
1.	4-aminodiphenyl/xenylamine/ Biphenyl-4-ylamine	92-67-1	ND
2.	Benzidine	92-87-5	ND
3.	4-chlor- <i>o</i> -toluidine	95-69-2	ND
4.	2-naphthylamine	91-59-8	ND
5.	<i>o</i> -aminoazotoluene/ 4- <i>o</i> -tolylazo- <i>o</i> -toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	ND
6.	2-amino-4-nitrotoluol/5-nitro- <i>o</i> -toluidine	99-55-8	ND
7.	<i>p</i> -chloranilin/4-chloroaniline	106-47-8	ND
8.	2,4-diaminoanisol/ 4-methoxy- <i>m</i> -phenylenediamine	615-05-4	ND
9.	4,4'-diaminodiphenylmethane/ 4,4-methylenedianiline	101-77-9	ND
10.	3,3'-dichlorobenzidine/ 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	ND
11.	3,3'-dimethoxybenzidine/ <i>o</i> -dianisidine	119-90-4	ND
12.	3,3'-dimethybenzidine/4,4'-bi- <i>o</i> -Toluidine	119-93-7	ND
13.	3,3'-dimethyl-4,4'-diaminodipenylmethane/ 4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND
14.	<i>p</i> -cresidin/6-methoxy- <i>m</i> -toluidine	120-71-8	ND
15.	4,4'-methylen-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	ND
16.	4,4'-oxydianiline	101-80-4	ND
17.	4,4'-thiodianiline	139-65-1	ND
18.	<i>o</i> -toluidine/2-aminotoluene	95-53-4	ND
19.	2,4-toluylendiamine/ 4-methyl- <i>m</i> -phenylenediamine	95-80-7	ND
20.	2,4,5-trimethylaniline	137-17-7	ND
21.	4-aminoazobenzene*	60-09-3	ND
22.	<i>o</i> -anisidine/ 2-methoxyaniline	90-04-0	ND
23.	2,4-Xylidine	95-68-1	ND
24.	2,6-Xylidine	87-62-7	ND
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\*: If the EN 14362-1 method enabled further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline or 1,4-phenylenediamine, therefore, the test method of LFGB § 64 BVL B 82.02.9 would be employed to verify the presence of 4-aminoazobenzene

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As per EN 14362-1: 2003 - Direct test on coloured textiles – Detection of the use of certain azo colorants are accessible to reducing agents without extraction with the use of Gas Chromatographic Mass Spectrometry (GC-MS)

No.	Forbidden Amines Substances	CAS-No.	Result (skinness/ white)
1.	4-aminodiphenyl/xenylamine/ Biphenyl-4-ylamine	92-67-1	ND
2.	Benzidine	92-87-5	ND
3.	4-chlor- <i>o</i> -toluidine	95-69-2	ND
4.	2-naphthylamine	91-59-8	ND
5.	<i>o</i> -aminoazotoluene/ 4- <i>o</i> -tolylazo- <i>o</i> -toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	ND
6.	2-amino-4-nitrotoluol/5-nitro- <i>o</i> -toluidine	99-55-8	ND
7.	<i>p</i> -chloranilin/4-chloroaniline	106-47-8	ND
8.	2,4-diaminoanisol/ 4-methoxy- <i>m</i> -phenylenediamine	615-05-4	ND
9.	4,4'-diaminodiphenylmethane/ 4,4-methylenedianiline	101-77-9	ND
10.	3,3'-dichlorobenzidine/ 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	ND
11.	3,3'-dimethoxybenzidine/ <i>o</i> -dianisidine	119-90-4	ND
12.	3,3'-dimethybenzidine/4,4'-bi- <i>o</i> -Toluidine	119-93-7	ND
13.	3,3'-dimethyl-4,4'-diaminodipenylmethane/ 4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND
14.	<i>p</i> -cresidin/6-methoxy- <i>m</i> -toluidine	120-71-8	ND
15.	4,4'-methylen-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	ND
16.	4,4'-oxydianiline	101-80-4	ND
17.	4,4'-thiodianiline	139-65-1	ND
18.	<i>o</i> -toluidine/2-aminotoluene	95-53-4	ND
19.	2,4-toluylendiamine/ 4-methyl- <i>m</i> -phenylenediamine	95-80-7	ND
20.	2,4,5-trimethylaniline	137-17-7	ND
21.	4-aminoazobenzene*	60-09-3	ND
22.	<i>o</i> -anisidine/ 2-methoxyaniline	90-04-0	ND
23.	2,4-Xylidine	95-68-1	ND
24.	2,6-Xylidine	87-62-7	ND
<b>Overall Rating</b>			<b>#</b>

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# Remark: For textiles no relevant amine exceeding 30 ppm (mg/kg) is required, the test method is applicable for textile and the result is only for client's information.

\*: If the EN 14362-1 method enabled further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline or 1,4-phenylenediamine, therefore, the test method of LFGB § 64 BVL B 82.02.9 would be employed to verify the presence of 4-aminoazobenzene

If the amines are detected by GC-MS method, then confirmation must be made using TLC method.

#### **Forbidden Arylamines for Azo Dye Regulations**

- No. 1-22 – Commission of the European Communities: Directive 2002/61/EC adopted by the Council on 19 July 2002
- No. 23-24 – Client requirement

**Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants**

As per EN 14362-1: 2003 - Direct test on coloured textiles – Detection of the use of certain azo colorants are accessible to reducing agents without extraction with the use of Gas Chromatographic Mass Spectrometry (GC-MS)

No.	<u>Forbidden Amines Substances</u>	<u>CAS-No.</u>	<u>Result (tube)</u>
1.	4-aminodiphenyl/xenylamine/ Biphenyl-4-ylamine	92-67-1	ND
2.	Benzidine	92-87-5	ND
3.	4-chlor- <i>o</i> -toluidine	95-69-2	ND
4.	2-naphthylamine	91-59-8	ND
5.	<i>o</i> -aminoazotoluene/ 4- <i>o</i> -tolylazo- <i>o</i> -toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	ND
6.	2-amino-4-nitrotoluol/5-nitro- <i>o</i> -toluidine	99-55-8	ND
7.	<i>p</i> -chloranilin/4-chloroaniline	106-47-8	ND
8.	2,4-diaminoanisol/ 4-methoxy- <i>m</i> -phenylenediamine	615-05-4	ND
9.	4,4'-diaminodiphenylmethane/ 4,4-methylenedianiline	101-77-9	ND
10.	3,3'-dichlorobenzidine/ 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	ND
11.	3,3'-dimethoxybenzidine/ <i>o</i> -dianisidine	119-90-4	ND
12.	3,3'-dimethybenzidine/4,4'-bi- <i>o</i> -Toluidine	119-93-7	ND
13.	3,3'-dimethyl-4,4'-diaminodipenylmethane/ 4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND
14.	<i>p</i> -cresidin/6-methoxy- <i>m</i> -toluidine	120-71-8	ND
15.	4,4'-methylen-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	ND
16.	4,4'-oxydianiline	101-80-4	ND
17.	4,4'-thiodianiline	139-65-1	ND
18.	<i>o</i> -toluidine/2-aminotoluene	95-53-4	ND
19.	2,4-toluylendiamine/ 4-methyl- <i>m</i> -phenylenediamine	95-80-7	ND
20.	2,4,5-trimethylaniline	137-17-7	ND
21.	4-aminoazobenzene*	60-09-3	ND
22.	<i>o</i> -anisidine/ 2-methoxyaniline	90-04-0	ND
23.	2,4-Xylidine	95-68-1	ND
24.	2,6-Xylidine	87-62-7	ND
<b>Overall Rating</b>			<b>#</b>

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Note : ND = Not Detectable                      Detection limit = 5 ppm (mg/kg)

# Remark: For textiles no relevant amine exceeding 30 ppm (mg/kg) is required, the test method is applicable for textile and the result is only for client's information.

\*: If the EN 14362-1 method enabled further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline or 1,4-phenylenediamine, therefore, the test method of LFGB § 64 BVL B 82.02.9 would be employed to verify the presence of 4-aminoazobenzene

If the amines are detected by GC-MS method, then confirmation must be made using TLC method.

**Forbidden Arylamines for Azo Dye Regulations**

- No. 1-22 – Commission of the European Communities: Directive 2002/61/EC adopted by the Council on 19 July 2002
- No. 23-24 – Client requirement

**Cadmium (Cd) Content**

Test Requested : To determine the Cadmium Content of the submitted sample .

Test Method : With reference to BS EN 1122:2001, Method B,  
Analysis was performed by Atomic Absorption Spectrometry.

Test Result :

<u>Element</u>	<u>Unit</u>	<u>Orange/light green/blue*</u>	<u>Skinness/yellow/rose*</u>	<u>MDL</u>
Cadmium (Cd)	mg/kg	ND	ND	2

<u>Element</u>	<u>Unit</u>	<u>Brown/green/red*</u>	<u>White/dark green*</u>	<u>Tube</u>	<u>MDL</u>
Cadmium (Cd)	mg/kg	ND	ND	ND	2

- Note :
- (1) mg/kg=ppm
  - (2) MDL = Method Detection Limit
  - (3) ND = Not detected

\* The composite sampling method is based on the client's special request and is a modification from the testing standard.



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### Handle Traction Test (as client requirement)

Test Sample: 1 piece

Test equipment: Universal tension tester (HG160)

Test method:

- 1). Visually inspect the sample and record any defects.
- 2). Fixed the sample and evenly applied a tension force of 5kg to the handles and maintained for an additional 10s.
- 3) Record the observation.

Result: Pass

No visible damage was found on the sample after the test.

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Sample Photo:

Test Sample



\*\*\*End of Report\*\*\*

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