



## Test Report

Date: Jul 25, 2008

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The following sample was submitted and identified by the client as:

One sample of woven 600\*300D polyester cutting in black with white PE backing.

Buyer : East Side-Impex

Country Of Destination : Germany

Sample Receiving Date : Jul 16, 2008

Test Performing Date : Jul 16, 2008

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

\* \* \* \*

Test Results : Please refer to the next page(s).

Signed for and on behalf of  
SGS-CSTC Ltd.

Lily Wang  
Account Supervisor

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### Test Results:

#### Azo Dye

Test item(s)	Unit	Test Method (Reference)	White PE w/black backing	MDL
4-Aminobiphenyl/xenylamine/biphenyl-4-ylamine CAS NO: 92-67-1)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
Benzidine (CAS NO: 92-87-5)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
4-Chloro- <i>o</i> -toluidine (CAS NO: 95-69-2)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
2-Naphthylamine (CAS NO: 91-59-8)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
<i>o</i> -Aminoazotoluene/4- <i>o</i> -Tolylazo- <i>o</i> -toluidine/4-Amino-2', 3-dimethylazobenzene (CAS NO: 97-56-3)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
2-Amino-4-nitrotoluene/5-nitro- <i>o</i> -toluidine (CAS NO: 99-55-8)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
<i>p</i> -Chloroaniline /4-Chloroaniline (CAS NO: 106-47-8)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
2,4-Diaminoanisole/4-Methoxy- <i>m</i> -phenylenediamine (CAS NO: 615-05-4)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
4,4'-Diaminodiphenylmethane/4,4'-Methylenedianiline (CAS NO: 101-77-9)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
3,3'-Dichlorobenzidine/3,3'-Dichlorobiphenyl-4,4'- ylenediamine (CAS NO: 91-94-1)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
3,3'-Dimethoxybenzidine/ <i>o</i> -Dianisidine (CAS NO: 119- 90-4)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
3,3'-Dimethylbenzidine/4,4'-Bi- <i>o</i> -toluidine (CAS NO: 119-93-7)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
3,3'-Dimethyl-4,4'-diaminodiphenylmethane/4,4'- methylenedi- <i>o</i> -toluidine (CAS NO: 838-88-0)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
<i>p</i> -Cresidine/6-Methoxy- <i>m</i> -toluidine (CAS NO: 120-71-8)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
4,4'-Methylene-bis-(2-chloro-aniline)/2,2'-Dichloro-4,4'- methylene-dianiline (CAS NO: 101-14-4)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
4,4'-Oxydianiline (CAS NO: 101-80-4)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
4,4'-Thiodianiline (CAS NO: 139-65-1)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
<i>o</i> -Toluidine/2-Aminotoluene (CAS NO: 95-53-4)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
2,4-Toluylenediamine/4-Methyl- <i>m</i> -phenylenediamine (CAS NO: 95-80-7)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
2,4,5-Trimethylaniline (CAS NO: 137-17-7)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
4-Aminoazobenzene <sup>A</sup> (CAS NO: 60-09-3)	mg/kg	EN 14362-1:2003 & LFGB § 64 BVL B 82.02.9 2006, GC-MS & HPLC	N.D.	5
<i>o</i> -Anisidine/2-Methoxyaniline (CAS NO: 90-04-0)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
2,4-Xylidine (CAS NO: 95-68-1)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
2,6-Xylidine (CAS NO: 87-62-7)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
<b>Overall Rating</b>			<b>Pass</b>	

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### Azo Dye

Test item(s)	Unit	Test Method (Reference)	<u>Black polyester</u>	MDL
4-Aminobiphenyl/xenylamine/biphenyl-4-ylamine CAS NO: 92-67-1)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
Benzidine (CAS NO: 92-87-5)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
4-Chloro- <i>o</i> -toluidine (CAS NO: 95-69-2)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
2-Naphthylamine (CAS NO: 91-59-8)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
<i>o</i> -Aminoazotoluene/4- <i>o</i> -Tolylazo- <i>o</i> -toluidine/4-Amino-2', 3-dimethylazobenzene (CAS NO: 97-56-3)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
2-Amino-4-nitrotoluene/5-nitro- <i>o</i> -toluidine (CAS NO: 99-55-8)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
<i>p</i> -Chloroaniline /4-Chloroaniline (CAS NO: 106-47-8)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
2,4-Diaminoanisole/4-Methoxy- <i>m</i> -phenylenediamine (CAS NO: 615-05-4)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
4,4'-Diaminodiphenylmethane/4,4'-Methylenedianiline (CAS NO: 101-77-9)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
3,3'-Dichlorobenzidine/3,3'-Dichlorobiphenyl-4,4'- ylenediamine (CAS NO: 91-94-1)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
3,3'-Dimethoxybenzidine/ <i>o</i> -Dianisidine (CAS NO: 119-90- 4)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
3,3'-Dimethylbenzidine/4,4'-Bi- <i>o</i> -toluidine (CAS NO: 119- 93-7)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
3,3'-Dimethyl-4,4'-diaminodiphenylmethane/4,4'- methylenedi- <i>o</i> -toluidine (CAS NO: 838-88-0)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
<i>p</i> -Cresidine/6-Methoxy- <i>m</i> -toluidine (CAS NO: 120-71-8)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
4,4'-Methylene-bis-(2-chloro-aniline)/2,2'-Dichloro-4,4'- methylene-dianiline (CAS NO: 101-14-4)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
4,4'-Oxydianiline (CAS NO: 101-80-4)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
4,4'-Thiodianiline (CAS NO: 139-65-1)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
<i>o</i> -Toluidine/2-Aminotoluene (CAS NO: 95-53-4)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
2,4-Toluylenediamine/4-Methyl- <i>m</i> -phenylenediamine (CAS NO: 95-80-7)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
2,4,5-Trimethylaniline (CAS NO: 137-17-7)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
4-Aminoazobenzene <sup>Δ</sup> (CAS NO: 60-09-3)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
<i>o</i> -Anisidine/2-Methoxyaniline (CAS NO: 90-04-0)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
2,4-Xylidine (CAS NO: 95-68-1)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
2,6-Xylidine (CAS NO: 87-62-7)	mg/kg	EN 14362-2:2003, GC-MS & HPLC	N.D.	5
<b>Overall Rating</b>			<b>Pass</b>	

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### Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. <sup>Δ</sup>: the EN 14362 – 1/2, method will enable further cleavage of 4-aminoazobenzene to non- forbidden amines: aniline and 1,4-phenylenediamine, therefore, the test method of LFGB § 64 BVL B 82.02.9 – 2006 was employed to verify the presence of 4-aminoazobenzene
5. EN 14362-1 is corresponding to LFGB § 64 BVL B 82.02.2 – 1998 of German Commodities Ordinance.  
EN 14362-2 is corresponding to LFGB § 64 BVL B 82.02.4 – 1998 of German Commodities Ordinance.

### 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. 1-20, 22-24 – Client requirement

Comment : Based on the test result, azo colorants which can release one or more of the listed amines by cleavage of their azo groups were not detected in sample (s) or the commodity submitted.

### Relevant Requirement (2002/61/EC) :

No relevant amine exceeding 30 mg/kg (ppm)

### Phthalate(s)

Test Item(s)	Unit	Test Method (Reference)	White PE w/black backing	MDL
Dibutyl Phthalate (DBP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
Benzylbutyl Phthalate (BBP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
Di-(2-ethylhexyl) Phthalate (DEHP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
Diisononyl Phthalate (DINP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.01
Di-n-octyl Phthalate (DNOP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
Diisodecyl Phthalate (DIDP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.01

### Note :

1. mg/kg = ppm, 0.1% = 1000ppm
2. N.D. = Not detected (< MDL)
3. MDL= Method Detection Limit

### Reference Information:

According to EU Directive 2005/84/EC,

- (1) The phthalates DEHP, DBP, BBP shall not be used as substances or as constituents of preparation, at concentrations of greater than 0.1% by mass of plasticized material, in toys and childcare articles.
- (2) The phthalates DINP, DIDP, DNOP shall not be used as substances or as constituents of preparations, at concentrations of greater than 0.1% by mass of the plasticized materials, in toys and childcare articles which can be placed in the mouth by children.

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### EN71 Part 3 : 1994 (including amendment A1:2000/ AC:2002) - Migration of Certain Elements

Test Item(s)	Unit	Test Method (Reference)	<u>White PE</u> <u>w/black</u> <u>backing</u>	<u>Black</u> <u>polyester</u>	MDL	Limit
Soluble Lead (Pb)	mg/kg	EN71 Part 3 :1994 + A1: 2000/AC: 2002,ICP-OES	N.D.	N.D.	5	90
Soluble Antimony (Sb)	mg/kg	EN71 Part 3 :1994 + A1: 2000/AC: 2002,ICP-OES	N.D.	N.D.	2	60
Soluble Arsenic (As)	mg/kg	EN71 Part 3 :1994 + A1: 2000/AC: 2002,ICP-OES	N.D.	N.D.	2	25
Soluble Barium (Ba)	mg/kg	EN71 Part 3 :1994 + A1: 2000/AC: 2002,ICP-OES	N.D.	8	5	1000
Soluble Cadmium (Cd)	mg/kg	EN71 Part 3 :1994 + A1: 2000/AC: 2002,ICP-OES	N.D.	N.D.	5	75
Soluble Chromium (Cr)	mg/kg	EN71 Part 3 :1994 + A1: 2000/AC: 2002,ICP-OES	N.D.	N.D.	5	60
Soluble Mercury (Hg)	mg/kg	EN71 Part 3 :1994 + A1: 2000/AC: 2002,ICP-OES	N.D.	N.D.	2	60
Soluble Selenium (Se)	mg/kg	EN71 Part 3 :1994 + A1: 2000/AC: 2002,ICP-OES	N.D.	N.D.	5	500

#### Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. Results of soluble elements shown are of the adjusted analytical results.

The above tests were conducted in SGS GZ Chemical Lab.

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

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