



Test Report

No. GZ0809036864TX

Date: Nov 14, 2008

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EASTSIDE IMPEX
LISELOTTE-HERMANN-STRASSE 31,10407 BERLIN,GERMANY

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

One sample of woven 600x300D polyester cutting with PE coating and silver backing in black / silver.

Buyer : EAST SIDE-IMPEX

Country Of Destination : Germany

Sample Receiving Date : Nov 07, 2008

Test Performing Date : Nov 10, 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

EN 14362-1:2003, GC-MS & HPLC

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

Overall Rating

Pass

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Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. : 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. ** Test result for 4-aminoazobenzene (CAS no.: 60-09-3) is considered as “not detected” (i.e.<5mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5mg/kg) by mentioned test method.
6. EN 14362-1 is corresponding to LFGB § 64 BVL B 82.02.2 – 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

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)

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Azo Dye

EN 14362-1:2003, GC-MS & HPLC

Test item(s)	Unit	Silver film	MDL
4-Aminobiphenyl/xenylamine/biphenyl-4-ylamine CAS NO: 92-67-1)	mg/kg	N.D.	5
Benzidine (CAS NO: 92-87-5)	mg/kg	N.D.	5
4-Chloro- <i>o</i> -toluidine (CAS NO: 95-69-2)	mg/kg	N.D.	5
2-Naphthylamine (CAS NO: 91-59-8)	mg/kg	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	N.D.	5
2-Amino-4-nitrotoluene/5-nitro- <i>o</i> -toluidine (CAS NO: 99-55-8)	mg/kg	N.D.	5
<i>p</i> -Chloroaniline /4-Chloroaniline (CAS NO: 106-47-8)	mg/kg	N.D.	5
2,4-Diaminoanisole/4-Methoxy- <i>m</i> -phenylenediamine (CAS NO: 615-05-4)	mg/kg	N.D.	5
4,4'-Diaminodiphenylmethane/4,4'-Methylenedianiline (CAS NO: 101-77-9)	mg/kg	N.D.	5
3,3'-Dichlorobenzidine/3,3'-Dichlorobiphenyl-4,4'-ylenediamine (CAS NO: 91- 94-1)	mg/kg	N.D.	5
3,3'-Dimethoxybenzidine/ <i>o</i> -Dianisidine (CAS NO: 119-90-4)	mg/kg	N.D.	5
3,3'-Dimethylbenzidine/4,4'-Bi- <i>o</i> -toluidine (CAS NO: 119-93-7)	mg/kg	N.D.	5
3,3'-Dimethyl-4,4'-diaminodiphenylmethane/4,4'-methylenedi- <i>o</i> -toluidine (CAS NO: 838-88-0)	mg/kg	N.D.	5
<i>p</i> -Cresidine/6-Methoxy- <i>m</i> -toluidine (CAS NO: 120-71-8)	mg/kg	N.D.	5
4,4'-Methylene-bis-(2-chloro-aniline)/2,2'-Dichloro-4,4'-methylene-dianiline (CAS NO: 101-14-4)	mg/kg	N.D.	5
4,4'-Oxydianiline (CAS NO: 101-80-4)	mg/kg	N.D.	5
4,4'-Thiodianiline (CAS NO: 139-65-1)	mg/kg	N.D.	5
<i>o</i> -Toluidine/2-Aminotoluene (CAS NO: 95-53-4)	mg/kg	N.D.	5
2,4-Toluylenediamine/4-Methyl- <i>m</i> -phenylenediamine (CAS NO: 95-80-7)	mg/kg	N.D.	5
2,4,5-Trimethylaniline (CAS NO: 137-17-7)	mg/kg	N.D.	5
4-Aminoazobenzene ^Δ (CAS NO: 60-09-3)	mg/kg	N.D.**	5
<i>o</i> -Anisidine/2-Methoxyaniline (CAS NO: 90-04-0)	mg/kg	N.D.	5

Overall Rating

Pass

Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. : 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. ** Test result for 4-aminoazobenzene (CAS no.: 60-09-3) is considered as “not detected” (i.e.<5mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5mg/kg) by mentioned test method.
6. EN 14362-1 is corresponding to LFGB § 64 BVL B 82.02.2 – 1998 of German Commodities Ordinance.

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Heavy Metal

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

EN71 Part 3 :1994 + A1: 2000/AC: 2002,ICP-OES

Test Item(s)	Unit	<u>Silver film</u>	<u>Black PE</u>	MDL	Limit
Soluble Lead (Pb)	mg/kg	N.D.	N.D.	5	90
Soluble Antimony (Sb)	mg/kg	N.D.	N.D.	2	60
Soluble Arsenic (As)	mg/kg	N.D.	N.D.	2	25
Soluble Barium (Ba)	mg/kg	N.D.	32	5	1000
Soluble Cadmium (Cd)	mg/kg	N.D.	N.D.	5	75
Soluble Chromium (Cr)	mg/kg	N.D.	N.D.	5	60
Soluble Mercury (Hg)	mg/kg	N.D.	N.D.	2	60
Soluble Selenium (Se)	mg/kg	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.

Phthalate(s)

EN14372: 2004, GC-MS

Test Item(s)	Unit	<u>(A)</u>	<u>Black PE</u>	MDL
Dibutyl Phthalate (DBP)	%(w/w)	N.D.	N.D.	0.003
Benzylbutyl Phthalate (BBP)	%(w/w)	N.D.	N.D.	0.003
Di-(2-ethylhexyl) Phthalate (DEHP)	%(w/w)	N.D.	N.D.	0.003
Diisononyl Phthalate (DINP)	%(w/w)	N.D.	N.D.	0.01
Di-n-octyl Phthalate (DNOP)	%(w/w)	N.D.	N.D.	0.003
Diisodecyl Phthalate (DIDP)	%(w/w)	N.D.	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.

The above tests were conducted in SGS GZ Chemical Lab.

*** End of Report ***

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