



Test Report

No.: GZ1008092288A/CHEM

Date: AUG 17, 2010

Page 1 of 4

WENZHOU LIANFENG LEATHER & PLASTICE CO., LTD
DONGFENG INDUSTRY AREA LOUQIAO(BANTANG)NO:1104 OUHAI ROND WENZHOU

This report is to supersede test report GZ1008092288/CHEM.

The following sample(s) was/were submitted and identified on behalf of the applicant as 半 PU 革

SGS Job No. : XM12674939EC
SGS Internal Reference No. : 3.3
Client Reference Information : Material : PU
Date of Sample Received : AUG 10, 2010
Testing Period : AUG 10, 2010 TO AUG 16, 2010

Test Requested : Selected test (s) as requested by client.

Test Method : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Ltd.

Manson Yang
Approved Signatory

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Member of the SGS Group (SGS SA)

Test result:

Description for specimen 1 : Lt-grey sheet

Azo Dye

Test item(s)	Unit	Test Method (Reference)	Result	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 ^A (CAS NO: 60-09-3)	mg/kg	EN 14362-1:2003 & § 64 LFGB BVL B 82.02.9:2008, 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
Overall Rating			Pass	

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Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. EN 14362-1:2003 is corresponding to § 64 LFGB BVL B 82.02.2:2004 of German Commodities Ordinance.
5. ^Δ: The EN 14362-1:2003 method will enable further cleavage of 4-aminoazobenzene to non- forbidden amines: aniline and 1,4-phenylenediamine. If the 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. Otherwise, the test method of § 64 LFGB BVL B 82.02.9:2008 was employed to verify the presence of 4-aminoazobenzene.

Forbidden Arylamines for Azo Dye Regulations

From the top down 1-22 –Requirement of Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No. 1907/2006 (previously restricted under Directive 2002/61/EC)

From the top down 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.

Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC) :

No relevant amine exceeding 30 mg/kg

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Sample photo :



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*** End of Report ***

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