

Test Report

No. QD801807/TX

Date: Apr. 3, 2008



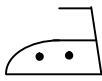

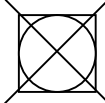
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ECODESIGN CO., LTD.
XINFENGYUAN INDUSTRIAL PARK, NO.356 JIUSHUI EAST ROAD, LICANG DISTRICT, QINGDAO

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

Sample Description : One sample of knitted 55% organic hemp 45% organic cotton cutting in Charcoal-103

Country of Destination : European

Proposed Care Instruction :     

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

* * * * *

Sample Receiving Date : MAR. 31, 2008

Test Performing Date : APR. 01, 2008

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

Signed for and on behalf of
SGS-CSTC Ltd.

Mike Liu (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.	Forbidden Amines Substances	CAS-No.	Result
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
Overall Rating			PASS

Relevant Requirement (2002/61/EC) :

No relevant amine exceeding 30 ppm (mg/kg)

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Note : ND = Not Detectable

Detection Limit = 5 ppm (mg/kg)

*: 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 HPLC method.

EN 14362-1 for European directive 2002/61/EC is corresponding to LFGB § 64 BVL B 82.02.2 of the German Act for Food, Commodity and Feed.

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

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

*** The test was carried out by SGS Shanghai Textile Lab.**

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Colour Fastness to Washing (ISO 105 C06-1994; Test No.A2S; mechanical wash at 40 degree C; with 4g/l 'ECE' detergent and 1g/l sodium perborate solution with 10 steel balls)

Change in shade	4-5
Staining on multi-fiber stripe	
Acetate	4-5
Cotton	4-5
Nylon	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5

Colour Fastness to Rubbing (ISO 105 X12-2001)

Dry staining	4-5
Wet staining	4-5

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Colour Fastness to Light (ISO 105 B02-1994; use Xenon arc lamp)

Grade (B.S.)	2-3
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pH Value of Aqueous Extract (ISO 3071-2005: water extraction)

8.0

Free Formaldehyde Content (ISO 14184-1-1998)

(mg/kg)	n.d.
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Note: (1) n.d.=not detectable
 (2) Detection Limit<20 mg/kg

END of Report

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