

Test Report

No. 1071384

Date: 25/02/2011

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BSW Handels GmbH
Demminer Str. 32
17389 Anklam
Germany

The following sample(s) was (were) submitted and identified by the client as:

Original Sample ID	Sample Description	Sample Receipt Date
110087496	Shooting glove Article LWHS101-L	14/02/2011



SGS Customer No : 10086580
 SGS Order No : 1883089
 Buyer : BSW Handels GmbH
 Order No. : Order from Mr. Kliewe dt. 13/02/2011
 Country of Origin : -

Test Performing Period : 14/02/2011 – 25/02/2011
 Test Performed : Selected test(s) as requested by applicant

Overall Conclusion : **Pass**

Tests Results : Please refer to the next pages

Signed for and on behalf of
 SGS Institut Fresenius GmbH

Name : i.A. Michael Wunderwald
 Position : Project manager
 Chemical product testing

Name : i.A. Catherine Bouleau
 Position : Project Assistant
 Chemical product testing

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Performed Test Summary:

Chemical Tests Components	Result	
	1	2+3
Azo Dyes 82.02-3/ 82.02-9 (3)	M	-
Azo Dyes 82.02-4	-	M
Chlorinated Phenols	M	-
Chromium(VI)	M	-

Remarks:
M = Meets Client's requirement
F = Does not meet Client's requirement
I = Inconclusive
* = No specified requirement

Note: Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s).

Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.

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

For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.

Component List

Comp. No	Original Sample ID	Description	Color(s)	Material
1	110087496	Main material	brown	Leather
2		Elastic tape	black	unknown
3		Velcro	black	unknown

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Test Result:

Azo Dyes 82.02-3/ 82.02-9 (3)

Test Method:

LFGB 82.02-3 , Leather - LFGB § 64 BVL B 82.02.3:2004, with the use of GC-MS/HPLC-DAD
 LFGB 82.02-9 , Determination of 4-Aminoazobenzene (CAS No.: 60-09-3) -LFGB § 64 BVL B 82.02-9:2008, with the use of GC-MS/HPLC-DAD

<u>Component(s)</u>	<u>Result</u>
Method	1 LFGB 82.02-3
4-Aminobiphenyl (92-67-1)	n.d.
Benzidine (92-87-5)	n.d.
4-Chloro-o-toluidine (95-69-2)	n.d.
2-Naphthylamine (91-59-8)	n.d.
o-Aminoazotoluene (97-56-3) [1]	n.d.
2-Amino-4-nitrotoluene (99-55-8) [1]	n.d.
p-Chloroaniline (106-47-8)	n.d.
2,4-Diaminoanisole (615-05-4)	n.d.
4,4'-Diaminodiphenylmethane (101-77-9)	n.d.
3,3'-Dichlorobenzidine (91-94-1)	n.d.
3,3' -Dimethoxybenzidine (119-90-4)	n.d.
3,3' -Dimethylbenzidine (119-93-7)	n.d.
3,3'-Dimethyl-4,4'-diaminodiphenylmethane (838-88-0)	n.d.
p-Cresidine (120-71-8)	n.d.
4,4'-Methylene-bis-(2-chloroaniline) (101-14-4)	n.d.
4,4'-Oxydianiline (101-80-4)	n.d.
4,4'-Thiodianiline (139-65-1)	n.d.
o-Toluidine (95-53-4)	n.d.
2,4-Toluylenediamine (95-80-7)	n.d.
2,4,5-Trimethylaniline (137-17-7)	n.d.
o-Anisidine (90-04-0)	n.d.
4-Aminoazobenzene (60-09-3)	n.d.
2,4-Xylidine (95-68-1)	n.d.
2,6-Xylidine (87-62-7)	n.d.
Conclusion	Pass

Note:

n.d. = not detected

Detection Limit = 10 mg/kg

= Exceeds the relevant requirement of 2/3-composite mix

Requirements: < 30 mg/kg (Limit for aromatic amines derived from azo dyes according to the German Ordinance on Consumer Products)

Comment: Within the scope of the mentioned test, no evidence was found of the presence in the submitted samples specified above of any azo dye or pigment that is a forbidden dye within the meaning of the ordinance of commodities.

^[1]= During analysis, o-Aminoazotoluene and 2-Amino-4-nitrotoluene decompose into o-Toluidine and 2,4-Toluylenediamine, respectively. Absence of o-Toluidine and 2,4-Toluylenediamine indicates absence of o-Aminoazotoluene and 2-Amino-4-nitrotoluene.

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Azo Dyes 82.02-4

Test Method:

LFGB 82.02-4 , Textiles - LFGB § 64 BVL B 82.02-4:2004 (Polyester), with the use of GC-MS/HPLC-DAD

<u>Component(s)</u>	<u>Result</u>
Method	2+3 LFGB 82.02-4
4-Aminobiphenyl (92-67-1)	n.d.
Benzidine (92-87-5)	n.d.
4-Chloro-o-toluidine (95-69-2)	n.d.
2-Naphthylamine (91-59-8)	n.d.
o-Aminoazotoluene (97-56-3) [1]	n.d.
2-Amino-4-nitrotoluene (99-55-8) [1]	n.d.
p-Chloroaniline (106-47-8)	n.d.
2,4-Diaminoanisole (615-05-4)	n.d.
4,4'-Diaminodiphenylmethane (101-77-9)	n.d.
3,3'-Dichlorobenzidine (91-94-1)	n.d.
3,3' -Dimethoxybenzidine (119-90-4)	n.d.
3,3' -Dimethylbenzidine (119-93-7)	n.d.
3,3'-Dimethyl-4,4'-diaminodiphenylmethane (838-88-0)	n.d.
p-Cresidine (120-71-8)	n.d.
4,4'-Methylene-bis-(2-chloroaniline) (101-14-4)	n.d.
4,4'-Oxydianiline (101-80-4)	n.d.
4,4'-Thiodianiline (139-65-1)	n.d.
o-Toluidine (95-53-4)	n.d.
2,4-Toluylenediamine (95-80-7)	n.d.
2,4,5-Trimethylaniline (137-17-7)	n.d.
4-Aminoazobenzene (60-09-3)	n.d.
o-Anisidine (90-04-0)	n.d.
2,4-Xylidine (95-68-1)	n.d.
2,6-Xylidine (87-62-7)	n.d.
Conclusion	Pass

Note:

n.d. = not detected

Detection Limit = 10 mg/kg

= Exceeds the relevant requirement of 2/3-composite mix

Requirements: < 30 mg/kg (Limit for aromatic amines derived from azo dyes according to the German Ordinance on Consumer Products)

Comment: Within the scope of the mentioned test, no evidence was found of the presence in the submitted samples specified above of any azo dye or pigment that is a forbidden dye within the meaning of the ordinance of commodities.

^[1]= During analysis, o-Aminoazotoluene and 2-Amino-4-nitrotoluene decompose into o-Toluidine and 2,4-Toluylenediamine, respectively. Absence of o-Toluidine and 2,4-Toluylenediamine indicates absence of o-Aminoazotoluene and 2-Amino-4-nitrotoluene.

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Chlorinated Phenols

Test Method:

In-house method , extraction with methanol and derivatisation, analysis with GC-ECD

<u>Component(s)</u>	<u>Result</u>
Method	1 In-house method
Pentachlorophenol	n.d.
2,3,4 -TriCP	n.d.
2,3,6 -TriCP	n.d.
2,4,5 -TriCP	n.d.
2,4,6 -TriCP	n.d.
3,4,5 -TriCP	n.d.
2,3,5,6-Tetrachlorphenol	n.d.
2,3,4,6-Tetrachlorophenol	n.d.
2,3,4,5-Tetrachlorophenol	n.d.
Conclusion	Pass

Note:

n.d. = not detected

Detection Limit = 0.1 mg/kg

= Exceeds the relevant requirement of 2/3-composite mix

Requirement: PCP < 5 mg/kg (Limit according to the German Chemicals Prohibition Ordinance)

Chromium VI in Leather

Test Method: ISO 17075:2007. Analysis was conducted by UV/VIS Spectrometry.

<u>Component(s)</u>	<u>Result</u>
Chromium (VI)	1 n.d.
Conclusion	Pass

Note:

n.d. = not detected

Detection Limit = 1 mg/kg

* = Exceeds the limit

= Exceeds the relevant requirement of 2 / 3-composite mix

Requirement: < 3 mg/kg (Limit according to the German Ordinance on Consumer Products)

*** End of Report ***