



Test Report

No.: SZTYR060932680/LP

Date: OCT 18, 2006

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SWIFTECH COMPANY LTD.
BLOCK 6, ZHONGSHAN CIVIL
SCIENCE & TECHNOLOGY PARK,
ZHONGSHAN CITY, GUANGDONG

Report on the submitted samples said to be 9017, CASTLE BOUNCER WITH SLIDE

Style / Item No. : 9017
Sample Receiving Date : SEP 29, 2006
Testing Period : SEP 30, 2006 TO OCT 09, 2006

Test Requested : Analysis of Azo Dye in the submitted samples.

Test Method : As specified in Commission of the European Communities: Directive 2002/61/EC adopted by the Council on 19 July 2002.

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

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

Signed for and on behalf of
SGS-CSTC Ltd.

Li Ying, Susan
Section Manager

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Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants

As per EN 14362-1:2003

By Gas Chromatographic Mass Spectrometry (GC-MS)/Thin Layer Chromatography (TLC) Technique

No.	Amines Substances	CAS-No.	No.1	No.2	No.3
1.	4-Aminobiphenyl/Xenylamine/ Biphenyl-4-ylamine	92-67-1	N.D.	N.D.	N.D.
2.	Benzidine	92-87-5	N.D.	N.D.	N.D.
3.	4-Chloro-o-Toluidine	95-69-2	N.D.	N.D.	N.D.
4.	2-Naphthylamine	91-59-8	N.D.	N.D.	N.D.
5.	o-Aminoazotoluene/ 4-o-tolylazo-o-toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	N.D.	N.D.	N.D.
6.	2-Amino-4-nitrotoluene/5-nitro-o-toluidine	99-55-8	N.D.	N.D.	N.D.
7.	p-Chloroaniline/4-chloroaniline	106-47-8	N.D.	N.D.	N.D.
8.	2,4-diaminoanisol/ 4-methoxy-m-phenylenediamine	615-05-4	N.D.	N.D.	N.D.
9.	4,4' - Diaminodiphenylmethane/ 4,4-methylenedianiline	101-77-9	N.D.	N.D.	N.D.
10.	3,3' - Dichlorobenzidine/ 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	N.D.	N.D.	N.D.
11.	3,3' - Dimethoxybenzidine/o-dianisidine	119-90-4	N.D.	N.D.	N.D.
12.	3,3' - Dimethylbenzidine/4,4'-bi-o-Toluidine	119-93-7	N.D.	N.D.	N.D.
13.	3,3' - Dimethyl - 4,4' - diaminodiphenylmethane/ 4,4'-methylenedi-o-toluidine	838-88-0	N.D.	N.D.	N.D.
14.	p-cresinin/6-methoxy-m-toluidine	120-71-8	N.D.	N.D.	N.D.
15.	4,4' - Methylen-bis-(2-chloroaniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	N.D.	N.D.	N.D.
16.	4,4' - Oxydianiline	101-80-4	N.D.	N.D.	N.D.
17.	4,4' - Thiodianiline	139-65-1	N.D.	N.D.	N.D.
18.	o-Toluidine/2-aminotoluene	95-53-4	N.D.	N.D.	N.D.
19.	2,4 - Toluyldiamine/ 4-methyl-m-phenylenediamine	95-80-7	N.D.	N.D.	N.D.
20.	2,4,5 - trimethylaniline	137-17-7	N.D.	N.D.	N.D.
21.	4-aminoazobenzene	60-09-3	N.D.	N.D.	N.D.
22.	o-anisidine/2-methoxyaniline	90-04-0	N.D.	N.D.	N.D.
23.	2,4-Xylidin	95-68-1	N.D.	N.D.	N.D.
24.	2,6-Xylidin	87-62-7	N.D.	N.D.	N.D.

Overall Rating
PASS
PASS
PASS

Specimen Description:

No.1 Red fabric w/ white plastic sheet backing

No.2 Yellow fabric w/ white plastic sheet backing

No.3 Blue fabric w/ white plastic sheet backing

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Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants

As per EN 14362-1:2003

By Gas Chromatographic Mass Spectrometry (GC-MS)/Thin Layer Chromatography (TLC) Technique

No.	Amines Substances	CAS-No.	No.4	No.5	No.6
1.	4-Aminobiphenyl/Xenylamine/ Biphenyl-4-ylamine	92-67-1	N.D.	N.D.	N.D.
2.	Benzidine	92-87-5	N.D.	N.D.	N.D.
3.	4-Chloro-o-Toluidine	95-69-2	N.D.	N.D.	N.D.
4.	2-Naphthylamine	91-59-8	N.D.	N.D.	N.D.
5.	o-Aminoazotoluene/ 4-o-tolylazo-o-toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	N.D.	N.D.	N.D.
6.	2-Amino-4-nitrotoluene/5-nitro-o-toluidine	99-55-8	N.D.	N.D.	N.D.
7.	p-Chloroaniline/4-chloroaniline	106-47-8	N.D.	N.D.	N.D.
8.	2,4-diaminoanisol/ 4-methoxy-m-phenylenediamine	615-05-4	N.D.	N.D.	N.D.
9.	4,4' - Diaminodiphenylmethane/ 4,4-methylenedianiline	101-77-9	N.D.	N.D.	N.D.
10.	3,3' - Dichlorobenzidine/ 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	N.D.	N.D.	N.D.
11.	3,3' - Dimethoxybenzidine/o-dianisidine	119-90-4	N.D.	N.D.	N.D.
12.	3,3' - Dimethylbenzidine/4,4'-bi-o-Toluidine	119-93-7	N.D.	N.D.	N.D.
13.	3,3' - Dimethyl - 4,4' - diaminodiphenylmethane/ 4,4'-methylenedi-o-toluidine	838-88-0	N.D.	N.D.	N.D.
14.	p-cresinin/6-methoxy-m-toluidine	120-71-8	N.D.	N.D.	N.D.
15.	4,4' - Methylen-bis-(2-chloroaniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	N.D.	N.D.	N.D.
16.	4,4' - Oxydianiline	101-80-4	N.D.	N.D.	N.D.
17.	4,4' - Thiodianiline	139-65-1	N.D.	N.D.	N.D.
18.	o-Toluidine/2-aminotoluene	95-53-4	N.D.	N.D.	N.D.
19.	2,4 - Toluyldiamine/ 4-methyl-m-phenylenediamine	95-80-7	N.D.	N.D.	N.D.
20.	2,4,5 - trimethylaniline	137-17-7	N.D.	N.D.	N.D.
21.	4-aminoazobenzene	60-09-3	N.D.	N.D.	N.D.
22.	o-anisidine/2-methoxyaniline	90-04-0	N.D.	N.D.	N.D.
23.	2,4-Xylidin	95-68-1	N.D.	N.D.	N.D.
24.	2,6-Xylidin	87-62-7	N.D.	N.D.	N.D.

Overall Rating

PASS

PASS

PASS

Specimen Description:

No.4 Yellow cord

No.5 Black netting

No.6 Yellow fabric

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SZL 564393

Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants

As per EN 14362-1:2003

By Gas Chromatographic Mass Spectrometry (GC-MS)/Thin Layer Chromatography (TLC) Technique

No.	Amines Substances	CAS-No.	No.7	No.8
1.	4-Aminobiphenyl/Xenylamine/ Biphenyl-4-ylamine	92-67-1	N.D.	N.D.
2.	Benzidine	92-87-5	N.D.	N.D.
3.	4-Chloro-o-Toluidine	95-69-2	N.D.	N.D.
4.	2-Naphthylamine	91-59-8	N.D.	N.D.
5.	o-Aminoazotoluene/ 4-o-tolylazo-o-toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	N.D.	N.D.
6.	2-Amino-4-nitrotoluene/5-nitro-o-toluidine	99-55-8	N.D.	N.D.
7.	p-Chloroaniline/4-chloroaniline	106-47-8	N.D.	N.D.
8.	2,4-diaminoanisol/ 4-methoxy-m-phenylenediamine	615-05-4	N.D.	N.D.
9.	4,4' - Diaminodiphenylmethane/ 4,4-methylenedianiline	101-77-9	N.D.	N.D.
10.	3,3' - Dichlorobenzidine/ 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	N.D.	N.D.
11.	3,3' - Dimethoxybenzidine/o-dianisidine	119-90-4	N.D.	N.D.
12.	3,3' - Dimethylbenzidine/4,4'-bi-o-Toluidine	119-93-7	N.D.	N.D.
13.	3,3' - Dimethyl - 4,4' - diaminodiphenylmethane/ 4,4'-methylenedi-o-toluidine	838-88-0	N.D.	N.D.
14.	p-cresinin/6-methoxy-m-toluidine	120-71-8	N.D.	N.D.
15.	4,4' - Methylen-bis-(2-chloroaniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	N.D.	N.D.
16.	4,4' - Oxydianiline	101-80-4	N.D.	N.D.
17.	4,4' - Thiodianiline	139-65-1	N.D.	N.D.
18.	o-Toluidine/2-aminotoluene	95-53-4	N.D.	N.D.
19.	2,4 - Toluyldiamine/ 4-methyl-m-phenylenediamine	95-80-7	N.D.	N.D.
20.	2,4,5 - trimethylaniline	137-17-7	N.D.	N.D.
21.	4-aminoazobenzene	60-09-3	N.D.	N.D.
22.	o-anisidine/2-methoxyaniline	90-04-0	N.D.	N.D.
23.	2,4-Xylidin	95-68-1	N.D.	N.D.
24.	2,6-Xylidin	87-62-7	N.D.	N.D.

Overall Rating

PASS

PASS

Specimen Description:

No.7 Red woven (Binding)

No.8 Red woven band

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Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants

As per EN 14362-1:2003

By Gas Chromatographic Mass Spectrometry (GC-MS)/Thin Layer Chromatography (TLC) Technique

No.	Amines Substances	CAS-No.	No.9	No.10
1.	4-Aminobiphenyl/Xenylamine/ Biphenyl-4-ylamine	92-67-1	N.D.	N.D.
2.	Benzidine	92-87-5	N.D.	N.D.
3.	4-Chloro-o-Toluidine	95-69-2	N.D.	N.D.
4.	2-Naphthylamine	91-59-8	N.D.	N.D.
5.	o-Aminoazotoluene/ 4-o-tolylazo-o-toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	N.D.	N.D.
6.	2-Amino-4-nitrotoluene/5-nitro-o-toluidine	99-55-8	N.D.	N.D.
7.	p-Chloroaniline/4-chloroaniline	106-47-8	N.D.	N.D.
8.	2,4-diaminoanisol/ 4-methoxy-m-phenylenediamine	615-05-4	N.D.	N.D.
9.	4,4' - Diaminodiphenylmethane/ 4,4-methylenedianiline	101-77-9	N.D.	N.D.
10.	3,3' - Dichlorobenzidine/ 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	N.D.	N.D.
11.	3,3' - Dimethoxybenzidine/o-dianisidine	119-90-4	N.D.	N.D.
12.	3,3' - Dimethylbenzidine/4,4'-bi-o-Toluidine	119-93-7	N.D.	N.D.
13.	3,3' - Dimethyl - 4,4' - diaminodiphenylmethane/ 4,4'-methylenedi-o-toluidine	838-88-0	N.D.	N.D.
14.	p-cresinin/6-methoxy-m-toluidine	120-71-8	N.D.	N.D.
15.	4,4' - Methylene-bis-(2-chloroaniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	N.D.	N.D.
16.	4,4' - Oxydianiline	101-80-4	N.D.	N.D.
17.	4,4' - Thiodianiline	139-65-1	N.D.	N.D.
18.	o-Toluidine/2-aminotoluene	95-53-4	N.D.	N.D.
19.	2,4 - Toluyldiamine/ 4-methyl-m-phenylenediamine	95-80-7	N.D.	N.D.
20.	2,4,5 - trimethylaniline	137-17-7	N.D.	N.D.
21.	4-aminoazobenzene	60-09-3	N.D.	N.D.
22.	o-anisidine/2-methoxyaniline	90-04-0	N.D.	N.D.
23.	2,4-Xylidin	95-68-1	N.D.	N.D.
24.	2,6-Xylidin	87-62-7	N.D.	N.D.

Overall Rating

PASS

PASS

Specimen Description:

No.9 Black woven (Binding)

No.10 Blue fabric w/ grey plastic sheet backing (Repair patch)

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2002/61/EC requirements:

- No relevant amine exceeding 30 ppm (mg/kg)

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 and 2004/21/EC adopted by the Council on 24 February 2004.
- No. 1-24 – Client's requirements

Note : N.D. = Not Detected (lower than detection limit)
Detection Limit = 5 ppm (mg/kg)

*** End of Report ***

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