

ULR - TC638319000010970F

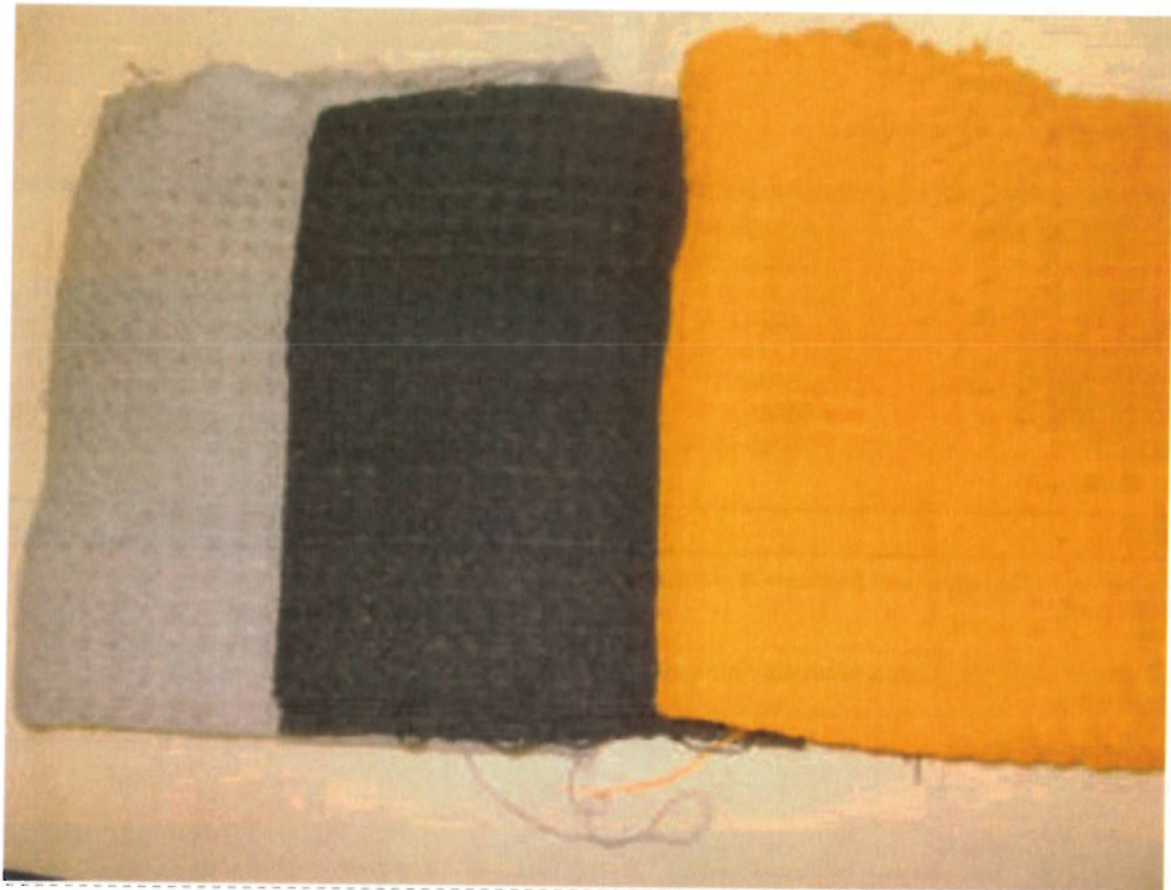
TEST REPORT

Report No. : TR:TX:1044010980

DATE : 18/02/2019



K-18/15



JOE No. : 1944805462

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Control No.:1044511097

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CONTACT PERSON : MR. SELVAN

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

PRODUCT DESCRIPTION WOVEN FABRIC
1 BIT OF FABRIC SUBMITTED

COLOUR
DESIGN

COUNTRY OF DESTINATION

COUNTRY OF ORIGIN

INDIA

SAMPLE RECD ON

15-Feb-2019

TESTING PERIOD : 15/02/2019 - 18/02/2019

RESULT SUMMARY

TESTS	PASS	FAIL	REMARKS
Determination of Certain Listed Aromatic Amines Derived from Azo Colourants			
1A+2B	X		
Determination of Certain Listed Aromatic Amines Derived from Azo Colourants			
3C	X		

per pro SGS India Private Ltd.

A. ARUL RAJ

SENIOR EXECUTIVE

Email your Test Report Related Enquiries at Feedback.SLT@sgs.com

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RESULTS

REQ

COMPONENT LIST /LIST OF MATERIALS

SAMPLE NO.	MATERIAL NO.	COMPONENT	MATERIAL	COLOR	FIBER TYPE*	REMARK
A	1	Y/d Woven fabric	Cotton	Yellow		
B	2	Y/d Woven fabric	Cotton	Black		
C	3	Y/d Woven fabric	Cotton	Grey		



RESULTS

REQ

Determination of Certain Listed Aromatic Amines Derived from Azo Colourants

Test Method: According to EN 14362-1:2012 with the use of Gas Chromatography - Mass Spectrometry (GC-MS) / High Performance Liquid Chromatography - Diode Array Detector (HPLC-DAD)

1A+2B

No.	Forbidden Amines Substances	CAS-No.	Result
1	4-aminodiphenyl/xenylamine/Biphenyl-4-ylamine	92-67-1	n.d
2	Benzidine	92-87-5	n.d
3	4-chlor-o-toluidine	95-69-2	n.d
4	2-naphthylamine	91-59-8	n.d
5	o-aminoazotoluene/4-o-tolylazo-o-toluidine/4-amino-2',3'-dimethylazobenzene	97-56-3	n.d
6	2-amino-4-nitrotoluol/5-nitro-o-toluidine	99-55-8	n.d
7	p-chloranilin/4-chloroaniline	106-47-8	n.d
8	2,4-diaminoanisol/4-methoxy-m-phenylenediamine	615-05-4	n.d
9	4,4'-diaminodiphenylmethane/4,4'-methylenedianiline	101-77-9	n.d
10	3,3'-dichlorobenzidine/3,3'dichlorobiphenyl-4,4'-ylenedi amine	91-94-1	n.d
11	3,3'-dimethoxybenzidine/o-dianisidine	119-90-4	n.d
12	3,3'-dimethylbenzidine/4,4'-bi-o-Toluidine	119-93-7	n.d
13	3,3'-dimethyl-4,4'-diaminodipenylmethane/4,4'-methylen edi-o-toluidine	838-88-0	n.d
14	p-cresidin/6-methoxy-m-toluidine	120-71-8	n.d
15	4,4'-methylen-bis-(2-chloro-aniline)/2,2'-dichloro-4,4'met hylene-dianiline	101-14-4	n.d
16	4,4'-oxydianiline	101-80-4	n.d
17	4,4'-thiodianiline	139-65-1	n.d
18	o-toluidine/2-aminotoluene	95-53-4	n.d
19	2,4-toluylendiamine/4-methyl-m-phenylenediamine	95-80-7	n.d
20	2,4,5-trimethylaniline	137-17-7	n.d
21	4-aminoazobenzene	60-09-3	n.d
22	o-anisidine/ 2-methoxyaniline	90-04-0	n.d
23	2,4-Xylidine*	95-68-1	n.d
24	2,6-Xylidine*	87-62-7	n.d
Conclusion			PASS



RESULTS

REQ

Determination of Certain Listed Aromatic Amines Derived from Azo Colourants

Test Method: According to EN 14362-1:2012 with the use of Gas Chromatography - Mass Spectrometry (GC-MS) / High Performance Liquid Chromatography - Diode Array Detector (HPLC-DAD)

3C

No.	Forbidden Amines Substances	CAS-No.	Result
1	4-aminodiphenyl/xenylamine/Biphenyl-4-ylamine	92-67-1	n.d
2	Benzidine	92-87-5	n.d
3	4-chlor-o-toluidine	95-69-2	n.d
4	2-naphthylamine	91-59-8	n.d
5	o-aminoazotoluene/4-o-tolylazo-o-toluidine/4-amino-2',3'-dimethylazobenzene	97-56-3	n.d
6	2-amino-4-nitrotoluol/5-nitro-o-toluidine	99-55-8	n.d
7	p-chloranilin/4-chloroaniline	106-47-8	n.d
8	2,4-diaminoanisol/4-methoxy-m-phenylenediamine	615-05-4	n.d
9	4,4'-diaminodiphenylmethane/4,4-methylenedianiline	101-77-9	n.d
10	3,3'-dichlorobenzidine/3,3'dichlorobiphenyl-4,4'-ylenedi amine	91-94-1	n.d
11	3,3'-dimethoxybenzidine/o-dianisidine	119-90-4	n.d
12	3,3'-dimethylbenzidine/4,4'-bi-o-Toluidine	119-93-7	n.d
13	3,3'-dimethyl-4,4'-diaminodipenylmethane/4,4'-methylen edi-o-toluidine	838-88-0	n.d
14	p-cresidin/6-methoxy-m-toluidine	120-71-8	n.d
15	4,4'-metylen-bis-(2-chloro-aniline)/2,2'-dichloro-4,4'met hylene-dianiline	101-14-4	n.d
16	4,4'-oxydianiline	101-80-4	n.d
17	4,4'-thiodianiline	139-65-1	n.d
18	o-toluidine/2-aminotoluene	95-53-4	n.d
19	2,4-toluylendiamine/4-methyl-m-phenylenediamine	95-80-7	n.d
20	2,4,5-trimethylaniline	137-17-7	n.d
21	4-aminoazobenzene	60-09-3	n.d
22	o-anisidine/ 2-methoxyaniline	90-04-0	n.d
23	2,4-Xylidine*	95-68-1	n.d
24	2,6-Xylidine*	87-62-7	n.d
	Conclusion		PASS

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RESULTS

REQ

Note: ND=Not Detected
Method Detection Limit=5mg/kg (for individual compound)
Client's Requirement : <30 mg/kg
* Amine tested as per customer request

Remark:
The EN 14362-1:2012 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4- phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg).Otherwise, the test method of EN 14362-3:2012 will be employed to verify the presence of 4-aminoazobenzene.

Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.
In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
In case of pigment prints care has to be taken that 4,4-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

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.

IMPORTANT:
Test was conducted on composite sample as per client's request and the test result is the overall result of a composite sample. Therefore, no reference can be made to the result of each component in the composite sample.

***** End of Report *****