

TEST REPORT

Report No. : TR:TX:1244068395

DATE : 09-Dec-21



K-01/03



JOE No. : 2144831889

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Control No.:1244572881

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SGS India Pvt. Ltd.

Connectivity and Products Testing Laboratory, 134, 2nd Floor, Sivasakthi Nagar, College Road, Tirupur-641602. Tel: + 91 421-4630100



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MID OCEAN BRANDS B.V.

7/F., KINGS TOWER, 111 KING LAM STREET,
CHEUNG SHA WAN, KOWLOON,
HONG KONG

CONTACT PERSON: Ms. WEEKO CHEUNG

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

PRODUCT DESCRIPTION

BEACH TOWEL
BEACH TOWEL SUBMITTED

ORDER NUMBER

4100108990

BUYER NAME

MID OCEAN

ITEM CODE

M09221/M09512

COUNTRY OF DESTINATION

NETHERLANDS

COUNTRY OF ORIGIN

INDIA

SAMPLE RECD ON

03-Dec-2021

TESTING PERIOD : 03-Dec-21 - 09-Dec-21

TESTS	PASS	FAIL	REMARKS
Azo Dyes (Direct Reduction and Colorant Extraction)			
1A	X		
TOTAL LEAD	X		
1A			REFER RESULT
COLOUR FASTNESS TO RUBBING	X		REFER RESULT

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per pro SGS India Private Ltd.

K. SHANMUGAVALLI

SENIOR EXECUTIVE

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

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R E S U L T S

REQ

COMPONENT LIST /LIST OF MATERIALS

SAMPLE NO.	MATERIAL NO.	COMPONENT	MATERIAL	COLOR	FIBER TYPE*	REMARK
A	1	Y/d Beach Towel	Textile	L.Grey		

* This fiber type identification is for the selection of azo dye testing procedure.

Note:

Type A = Textile contains natural fibers only and/or regenerated fibers exclude the group of acetate.

Type B = Textile contains polyester fibers only.

Type C = Textile contains man-made fibers and/or man-made blended fibers (except polyester fibers).

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R E S U L T S

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Azo Dyes (Direct Reduction and Colorant Extraction)

With reference to EN ISO 14362-1:2017. Analysis was performed by GC-MS/HPLC-DAD.

Determination of 4-aminoazobenzene (CAS No.:60-09-3)-EN ISO14362-3:2017; with the use of GC-MS/ HPLC-DAD.

Direct Reduction Colourant Extraction

1A

No.	Forbidden Amines Substances	CAS-No.	Result	Result
1	4-aminodiphenyl/xenylamine/Biphenyl-4-ylamine	92-67-1	n.d	n.d
2	Benzidine	92-87-5	n.d	n.d
3	4-chlor-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-nitrotoluol/5-nitro-o-toluidine	99-55-8	n.d	n.d
7	p-chloranilin/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'-ylenedi-amine	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'-diaminodipenylmethane/4,4'-methylenedi-o-toluidine	838-88-0	n.d	n.d
14	p-cresidin/6-methoxy-m-toluidine	120-71-8	n.d	n.d
15	4,4'-methylen-bis-(2-chloro-aniline)/2,2'-dichloro-4,4'-met-hylene-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-Xylidine	95-68-1	n.d	n.d
24	2,6-Xylidine	87-62-7	n.d	n.d
Conclusion:			PASS	PASS

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R E S U L T S

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Note: ND=Not Detected

*#=exceed the limit

Reporting limit : 500mg/kg (for individual compound)

Max Limit = 30 mg/kg (ppm)

Remark:

+ Direct reduction refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction refers to the colorant extraction and subsequent reduction according to ISO 14362-1:2017 clause 10.1 and relevant clauses.

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.

The ISO 14362-1:2017 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 ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.

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.

Note : Test subcontracted to SGS-India Pvt. Ltd. Chennai Branch

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R E S U L T S

REQ

TOTAL LEAD

entry 63 Lead, Annex XVII of the REACH Regulation (EC) No 1907/2006 standard, limit 500mg/kg.

1A

CONTENT

Not Detected

Reporting limit : 500mg/kg

Note : Test subcontracted to SGS-India Pvt. Ltd. Chennai Branch

COLOUR FASTNESS TO RUBBING

ISO 105X12:2016

	Result	Requested limit	Conclusion
DRY	4-5	at least grade 2-3	PASS
WET	4-5	at least grade 2-3	PASS

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

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