

SGS



NABL ACCREDITED
Certificate N°. T-0118/0471/0125

TEST REPORT

Revised report

Report No. : CH:XX:54200

DATE : 26/03/2014



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

PRODUCT DESCRIPTION BAG
NATURAL CANVAS STROCK BAG
COLOUR NATURAL/BROWN/YELLOW (AS IDENTIFIED BY THE LABORATORY)
COUNTRY OF ORIGIN INDIA
SAMPLE RECD ON 19/03/2014 **TESTING PERIOD** : 19/03/2014 - 22/03/2014
MODIFIED DATE 26/03/2014
RESULT SUMMARY

TESTS	PASS	FAIL	REMARKS
AZO DYES			
BAG WITH PRINT - NATURAL/BROWN/YELLOW	X		
ORGANO TIN COMPOUNDS			
BAG WITH PRINT - NATURAL/BROWN/YELLOW			REFER RESULTS
CHLOROPHENOLS			
BAG WITH PRINT - NATURAL/BROWN/YELLOW			REFER RESULTS
HEAVY METALS			
BAG WITH PRINT - NATURAL/BROWN/YELLOW	X		

per pro SGS India Private Ltd.

P.PONSUNDARAJ

EXECUTIVE

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

Test report revised to correct the reporting address as per customer request.

This Report cancels and supersedes the Report No XXXXXX Dated 22/03/2014 issued by SGS India

JOE No. : 1442912154

Control No. : 5425020886

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RESULTS

REQ

CHLOROPHENOLS

§ 64 LFGB B 62.02.8:2001/Analysis by GC-ECD/MS

BAG WITH PRINT - NATURAL/BROWN/YELLOW

PCP CONTENT ND

Note : ND - Not Detected ; Method Detection Limit : 0.25 ppm

HEAVY METALS IN PACKAGING MATERIAL

Sample digestion - Analysis of Lead, Cadmium and Mercury were performed by ICP-MS/AAS. Analysis of Chromium VI was performed by UV-VIS.

BAG WITH PRINT - NATURAL/BROWN/YELLOW

No.	PARAMETERS:	RESULT	Det.Limit:	Req :
1	Lead (Pb)	ND	5 ppm	
2	Cadmium (Cd)	ND	5 ppm	
3	Mercury (Hg)	ND	5 ppm	
4	Chromium (Cr (VI))	ND	5 ppm	
5	Sum of Pb+Cd+Hg+Cr(VI) :	ND		Sum100ppm

Note :

1. mg/kg = milligram per kilogram

2. ND = Not Detected

3. * = The result of Hexavalent chromium (Cr(VI)) is considered as "Not Detected" since the total chromium content determined by acid digestion is "Not Detected".

4. Requirement : Sum of Pb+Cd+Hg+Cr(VI) = 100 mg/kg

Remark : The TPCH legislation has been enacted by California, Connecticut, Florida, Georgia, Illinois, Iowa, Maine, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Wisconsin.

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R E S U L T S

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)

BAG WITH PRINT - NATURAL/BROWN/YELLOW

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-o-toluidine	95-69-2	ND
4	2-naphthylamine	91-59-8	ND
5	o-aminoazotoluene/4-o-tolylazo-o-toluidine/4-amino-2',3'-dimethylazobenzene	97-56-3	ND
6	2-amino-4-nitrotoluol/5-nitro-o-toluidine	99-55-8	ND
7	p-chloranilin/4-chloroaniline	106-47-8	ND
8	2,4-diaminoanisol/4-methoxy-m-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'-ylenedia mine	91-94-1	ND
11	3,3'-dimethoxybenzidine/o-dianisidine	119-90-4	ND
12	3,3'-dimethylbenzidine/4,4'-bi-o-Toluidine	119-93-7	ND
13	3,3'-dimethyl-4,4'-diaminodiphenylmethane/4,4'-methylen edi-o-toluidine	838-88-0	ND
14	p-cresidin/6-methoxy-m-toluidine	120-71-8	ND
15	4,4'-methylene-bis-(2-chloro-aniline)/2,2'-dichloro-4,4'met hylene-dianiline	101-14-4	ND
16	4,4'-oxydianiline	101-80-4	ND
17	4,4'-thiodianiline	139-65-1	ND
18	o-toluidine/2-aminotoluene	95-53-4	ND
19	2,4-toluylendiamine/4-methyl-m-phenylenediamine	95-80-7	ND
20	2,4,5-trimethylaniline	137-17-7	ND
21	4-aminoazobenzene	60-09-3	ND
22	o-anisidine/ 2-methoxyaniline	90-04-0	ND
23	2,4-Xyldine*	95-68-1	ND
24	2,6-Xyldine*	87-62-7	ND
Conclusion			PASS

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R E S U L T S

REQ

Note: ND=Not Detected

Method Detection Limit=5mg/kg(ppm) (for individual compound)

Max Limit = 30 mg/kg (ppm)

* Amine tested as per customer request

Recommended Max Limit with reference to entry 43 of Regulation (EC) No. 552/2009 amending Annex XVII of REACH Regulation (EC) No. 1907/2006.

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 customer'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.

ORGANO TIN COMPOUNDS

DIN 38407/Analysis by GC-MS

BAG WITH PRINT - NATURAL/BROWN/YELLOW

MONO BUTYL TIN

ND

DI BUTYL TIN

ND

TRI BUTYL TIN

ND

TRI PHENYL TIN

ND

Note : ND - Not Detected ; Method Detection Limit : 0.1 ppm

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