

TEST REPORT

Report No. _____

DATE : 26/02/2014

Baumwolltaschen 62164, 62547, 63464
cotton bags

INDIA

CONTACT PERSON :

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

SAMPLE DESCRIPTION BAG
COTTON BAG WITH 2 COLOUR PRINT
FABRIC NATURE
COLOUR NATURAL WITH PRINT – BLUE YELLOW
END USE BAG
COUNTRY OF DESTINATION NOT PROVIDED
COUNTRY OF ORIGIN NOT PROVIDED

SAMPLE RECD ON 20/02/2014

TESTING PERIOD : 20/02/2014 - 26/02/2014

RESUT SUMMARY

TESTS	PASS	FAIL	REMARKS
ODOUR TESTING			
BASE FABRIC WITH PRINT– B/FAB--NATURAL / PRINT - NAVY BLUE/YELLOW			REFER RESULTS
ORGANO TIN COMPOUNDS			
BASE FABRIC WITH PRINT– B/FAB--NATURAL / PRINT - NAVY BLUE/YELLOW			REFER RESULTS
FORMALDEHYDE CONTENT			
BASE FABRIC WITH PRINT– B/FAB--NATURAL / PRINT - NAVY BLUE/YELLOW			REFER RESULTS
FLAME RETARDANTS			
BASE FABRIC WITH PRINT– B/FAB--NATURAL / PRINT - NAVY BLUE/YELLOW			REFER RESULTS
TRIS-2- CHLORO ETHYL PHOSPHATE			
BASE FABRIC WITH PRINT– B/FAB--NATURAL / PRINT/NAVY BLUE/YELLOW			REFER RESULTS
ALKYL PHENOL AND ALKYL PHENOL ETHOXYLATES			
BASE FABRIC WITH PRINT– B/FAB--NATURAL / PRINT - NAVY BLUE/YELLOW			REFER RESULTS
CHLOROPHENOLS			
BASE FABRIC WITH PRINT– B/FAB--NATURAL / PRINT - NAVY BLUE/YELLOW			REFER RESULTS
O-PHENYL PHENOL CONTENT			

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BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - NAVY BLUE/YELLOW			REFER RESULTS
POLYCYCLIC AROMATIC HYDROCARBON			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - NAVY BLUE/YELLOW			REFER RESULTS

TESTS	PASS	FAIL	REMARKS
TOTAL CADMIUM CONTENT			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
TOTAL LEAD CONTENT			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
DIMETHYL FUMARATE			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
VOLATILE ORGANIC COMPOUNDS			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
SHORT CHAIN CHLORINATED PARAFFINS (SCCP) C10-C13			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
SOLVENTS RESIDUES			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
PHTHALATES			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
CARCINOGENIC DYES			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
CHLORINATED ORGANIC CARRIER			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
DISPERSE DYES			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
HEAVY METAL			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
PESTICIDES			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS

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PERFLUOROOCTANE SULFONATE AND PERFLUOROOCTANOIC ACID			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS

TESTS	PASS	FAIL	REMARKS
pH VALUE			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW			REFER RESULTS
AZO DYES			
BASE FABRIC WITH PRINT- B/FAB--NATURAL / PRINT - BLUE/YELLOW	PASS		

per pro SGS India Private Ltd.



P. PONSUNDARAJ
EXECUTIVE

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

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III

Component List / List OF Materials

SAMPLE NO.	MATERIAL NO.	COMPONENT	MATERIAL/COMPOSITION	COLOUR	REMARKS
1	1	BASE FABRIC WITH PRINT	--	B/FAB- NATURAL/PRINT-BLUE/YELLOW	

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ODOUR TESTING

With Ref. to SNV 195 651

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

Weak Odour

Grades : 1= odourless ; 2= weak odour ; 3= tolerable odour ; 4= annoying odour ; 5= intolerable odour

ORGANO TIN COMPOUNDS

With Ref. to BS EN ISO 17353: 2004/Analysis by GC-MS

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

DI OCTYL TIN	ND
DI BUTYL TIN	ND
TRI BUTYL TIN	ND
TRI PHENYL TIN	ND

Note : ND - Not Detected ; Method Detection Limit : 0.1 mg/kg

FORMALDEHYDE CONTENT

With Ref. to ISO 14184-1:2011 (E) Analysis using UV-VIS Spectrophotometer

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

Content	ND
---------	----

Note : ND - Not Detected ; Method Detection Limit : 10 mg/kg

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FLAME RETARDANTS

Solvent Extraction/ Analysis by GC-MS and LC-MS

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

TRIS	ND
TEPA	ND
PBB	ND
PENTA-BDE	ND
OCTA-BDE	ND
DECA BDE	ND
HBCDD	ND

Note : ND - Not Detected ; Method Detection Limit : 5 mg/kg

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TRIS-2- CHLORO ETHYL PHOSPHATE

Solvent Extraction/ Analysis by GC-MS and LC-MS

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

ND

Note : ND - Not Detected ; Method Detection Limit : 5 mg/kg

ALKYL PHENOL AND ALKYL PHENOL ETHOXYLATES

In-House Method/Analysis was conducted by HPLC-MS.

IN HOUSE METHOD SOP NO. SGS/IN/CTS LAB/ECO-21-1

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

NONYL PHENOL (NP) ND

OCTYL PHENOL (OP) ND

NONYL PHENOL ETHOXYLATE (NPEO) ND

OCTYL PHENOL ETHOXYLATES (OPEO) ND

Note : ND - Not Detected ; Method Detection Limit : 10 mg/kg

CHLOROPHENOLS

With Ref. to § 64 LFGB B 82.02.8:2001/Analysis by GC-ECD/MS

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

Pentachlorophenol ND

2,3,4,5-Tetrachlorophenol ND

2,3,4,6-Tetrachlorophenol ND

2,3,5,6-Tetrachlorophenol ND

2,3,4-Trichlorophenol ND

2,3,5-Trichlorophenol ND

2,3,6-Trichlorophenol ND

2,4,5-Trichlorophenol ND

2,4,6-Trichlorophenol ND

3,4,5-Trichlorophenol ND

Note : ND - Not Detected ; Method Detection Limit : 0.05 mg/kg

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POLYCYCLIC AROMATIC HYDROCARBON With Ref. to ZEK.01.4.08/Analysis by GC-MS

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

Acenaphthene	ND
Acenaphthylene	ND
Anthracene	ND
Benzo[a]anthracene	ND
Benzo[a]pyrene	ND
Benzo[b]fluoranthene	ND
Benzo[e]pyrene	ND
Benzo[ghi]perylene	ND
Benz[j]fluorathene	ND
Benzo[k]fluorathene	ND
Chrysene	ND
Cyclopenta[c,d]pyrene	ND
Dibenz[a,h]anthracene	ND
Dibenzo(a,e)pyrene	ND
Dibenzo(a,h)pyrene	ND
Dibenzo(a,i)pyrene	ND
Fluoranthene	ND
Fluorine	ND
Indeno[1,2,3]pyrene	ND
1-Methylpyrene	ND
Naphthalene	ND
Phenanthrene	ND
pyrene	ND

Note : ND - Not Detected ; Method Detection Limit : 0.1 mg/kg

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TOTAL CADMIUM CONTENT

Total Digestion- Microwave: Analysis by AAS/ICPMS

IN HOUSE METHOD SOP NO. SGS/IN/CTS LAB/ECO-03-6

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

CONTENT

ND

Note : ND - Not Detected ; Method Detection Limit : 20 mg/kg

TOTAL LEAD CONTENT

Total Digestion- Microwave: Analysis by AAS/ICPMS

IN HOUSE METHOD SOP NO. SGS/IN/CTS LAB/ECO-03-6

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

CONTENT

ND

Note : ND - Not Detected ; Method Detection Limit : 20 mg/kg

DIMETHYL FUMARATE

Solvent Extraction/Analysis by GC-MS

IN HOUSE METHOD SOP NO. SGS/IN/CTS LAB/ECO-26-1

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

RESULT

ND

Note : ND - Not Detected ; Method Detection Limit : 0.1 mg/kg

O-PHENYL PHENOL CONTENT

With Ref. to §64 LFGB B 82.02.8:2001/Analysis by GC-MS

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

CONTENTS

ND

Note : ND - Not Detected ; Method Detection Limit : 1 mg/kg

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SOLVENT RESIDUES

In-House Method/Analysis was performed by GC-MS.

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

N,N Dimethyl Acetamide	ND
Dimethyl Formamide	ND
1-Methyl-2-pyrrolidone	ND

Note : ND Not Detected ; Method Detection Limit : 1 mg/kg

SHORT CHAIN CHLORINATED PARAFFINS (SCCP) C10-C13

In House Method/Analysis by GC-MS-NCI.

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

Short Chain Chlorinated Paraffins(SCCP) (C10-C13) ND

Note : ND - Not Detected ; Method Detection Limit : 100 mg/kg

ORGANIC VOLATILE

BY GC-MS HEAD SPACE

IN HOUSE METHOD SOP NO. SGS/IN/CTS LAB/ECO-13-1

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

TOLUENE	ND
STYRENE	ND
VINYLCYCLOHEXENE	ND
4-PHENYLCYCLOHEXENE	ND
VINYLCYCLOHEXENE	ND
4-PHENYLCYCLOHEXENE	ND
VINYLCYCLOHEXENE	ND
BENZENE	ND
XYLENE	ND
CHLOROFORM	ND
CARBON TETRACHLORIDE	ND
TETRACHLORO ETHYLENE	ND
TRICHLORO ETHYLENE	ND
DICHLORO METHANE	ND
BUTADIENE	ND

Note : ND - Not Detected ; Method Detection Limit : 1 ppm

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RESULTS

PHthalATES

With Reference to 15777/Analysis by GC-MS

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

Butyl Benzyl Phthalate [BBP]	ND
Bis(2-EthylHexyl)Phthalate[DEHP]	ND
Di-n-Butyl Phthalate [DBP]	ND
Diisobutyl phthalate[DIBP]	ND
Di-n-hexylphthalate[DHP]	ND
Di iso Heptyl lphthalate[DIHP]	ND
Di isopentyl phthalate[DPP]	ND
Di-(2-methoxyethyl) phthalate[DMEP]	ND
DI-C7-11-11-Branched alkylphthalates[DHNUP]	ND
Diisononyl Phthalate (DINP)	ND
Di-n-octyl Phthalate (DNOP)	ND
Diisodecyl Phthalate (DIDP)	ND
Di-n-pentylphthalate (DnPP)	ND

Note : ND - Not Detected ; Method Detection Limit : 0.01%

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CARCINOGENIC DYES

With reference to DIN 54231/Analysis by HPLC-DAD/MS

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

No.	CARCINOGENIC DYES	CAS NO.	Result
1	ACID RED 26	3761-53-3	ND
2	BASIC RED 9	569-61-9	ND
3	BASIC VIOLET 14	632-99-5	ND
4	DIRECT BLACK 38	1937-37-7	ND
5	DIRECT BLUE 6	2602-46-2	ND
6	DIRECT RED 28	573-58-0	ND
7	DISPERSE BLUE 1	2475-45-8	ND
8	DISPERSE ORANGE 11	82-28-0	ND
9	DISPERSE YELLOW 3	2832-40-8	ND

Note : ND - Not Detected ; Method Detection Limit : 15 mg/kg

CHLORINATED ORGANIC CARRIER

With reference to DIN 54232: 2007/Analysis by GC-MS

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

Compounds:-

Chlorotoluene::

2-Chlorotoluene	ND
3-Chlorotoluene	ND
4-Chlorotoluene	ND
2,3-Dichlorotoluene	ND
2,4-Dichlorotoluene	ND
2,5-Dichlorotoluene	ND
2,6-Dichlorotoluene	ND
3,4-Dichlorotoluene	ND
2,3,6-Trichlorotoluene	ND
2,4,5-Trichlorotoluene	ND
Pentachlorotoluene	ND

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Tetrachlorotoluene	ND
Chlorobenzene::	
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
1,2,3-Trichlorobenzene	ND
1,2,4-Trichlorobenzene	ND
1,3,5-Trichlorobenzene	ND
1,2,3,4-Tetrachlorobenzene	ND
1,2,3,5-Tetrachlorobenzene	ND
1,2,4,5-Tetrachlorobenzene	ND
Pentachlorobenzene	ND
Hexachlorobenzene	ND

Note : ND - Not Detected ; Method Detection Limit : 0.1 mg/kg

DISPERSE DYES

With reference to DIN 54231: 2005/Analysis by LC-MS-DAD

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

No.	DISPERSE DYES	CAS NO.	Result
1	DISPERSE ORANGE 37/76	13301-61-6	ND
2	DISPERSE ORANGE 3	730-40-5	ND
3	DISPERSE YELLOW 9	6373-73-5	ND
4	DISPERSE YELLOW 49	54824-37-2	ND
5	DISPERSE YELLOW 3	2832-40-8	ND
6	DISPERSE YELLOW 39	12236-29-2	ND
7	DISPERSE BLUE106	12223-01-7	ND
8	DISPERSE BLUE 124	61951-51-7	ND
9	DISPERSE BLUE 35	*	ND
10	DISPERSE BLUE 1	2475-45-8	ND
11	DISPERSE RED 1	2872-52-8	ND
12	DISPERSE RED11	2872-48-2	ND
13	DISPERSE RED 17	3179-89-3	ND
14	DISPERSE ORANGE 1	2581-69-3	ND

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15	DISPERSE BLUE 7	3179-90-6	ND
16	DISPERSE BLUE 3	2475-46-9	ND
17	DISPERSE BLUE 26	3860-63-7	ND
18	DISPERSE BLUE 102	12222-97-8	ND
19	DISPERSE YELLOW 1	119-15-3	ND
20	DISPERSE BROWN 1	23355-64-8	ND
21	DISPERSE YELLOW 23	6250-23-3	ND
22	DISPERSE ORANGE 149	85136-74-9	ND

* Disperse Blue 35 CAS No.: 56524-77-7 & 56524-76-6.

Note : ND - Not Detected ; Method Detection Limit : 15 mg/kg

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HEAVY METAL

Test Method: Heavy metals are extracted by acid perspiration solution according to ISO 105/E04, analysis was performed by ICP-MS with reference to ISO 17294-2: 2005. For Chromium VI, analysis by UV/VIS Spectrometry.

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

No.	PARAMETERS	RESULT	Det.Limit:
1	LEAD (Pb)	ND	0.05 mg/kg
2	ANTIMONY (Sb)	ND	1.00 mg/kg
3	ARSENIC (As)	ND	0.20 mg/kg
4	CHROMIUM (Cr)	ND	0.50 mg/kg
5	CHROMIUM VI (Cr VI)	ND	0.50 mg/kg
6	CADMIUM (Cd)	ND	0.05 mg/kg
7	MERCURY (Hg)	ND	0.01 mg/kg
8	NICKEL (Ni)	ND	0.50 mg/kg
9	COPPER (Cu)	ND	1.00 mg/kg
10	COBALT (Co)	ND	0.50 mg/kg

Note : ND - Not Detected

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PESTICIDES

IN HOUSE METHOD WITH REFERENCE TO EPA 8081,8141 & BY GC-MS/LCMS

IN HOUSE METHOD SOP NO. SGS/IN/CTS LAB/ECO-11-1

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

2,4,5-T	ND
2,4-D	ND
Azinophosmethyl	ND
Azinophosethyl	ND
Aldrine	ND
Bromophos-ethyl	ND
Capafol	ND
Carbaryl	ND
Chlodane	ND
Chlordimeform	ND
Chlorfenvinphos	ND
Coumaphos	ND
Cyfluthrin	ND
Cypermethrin	ND
DEF	ND
Deltamethrin	ND
DDD	ND
DDE	ND
DDT	ND
Diazinon	ND
Dichlorprop	ND
Dicrotophos	ND
Dieldrine	ND
Dimethoate	ND
Dinoseb and salts	ND
Endosulfan, α-	ND
Endosulfan, β-	ND
Endrine	ND
Esfenvalerate	ND
Fenvalerate	ND
Heptachlor	ND
Heptachloroepoxide	ND
Heptachlorobenzene	ND
Heptachlorocyclohexane, α	ND
Heptachlorocyclohexane, β	ND
Heptachlorocyclohexane, δ	ND
Isodrine	ND
Kelevane	ND
Kepone	ND
Lindane	Nd

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Malathion	ND
MCPA	ND
MCPB	ND
Mecoprop	ND
Methoxychlor	ND
Mirex	ND
Monocrotophos	ND
Parathion	ND
Parathion-methyl	ND
Perthane	ND
Phosdrin/Mevinphos	ND
Propethamphos	ND
Profenophos	ND
Quinalphos	ND
Strobane	ND
Telodrine	ND
Toxaphene	ND
Trifluralin	ND

Note : 1) ND - Not Detected ; Method Detection Limit : 0.1 mg/kg
2) * Analysed By LC-MS/ Others Analysed By GC-MS.

PERFLUOROOCTANE SULFONATE AND PERFLUOROOCTANOIC ACID

Solvent Extraction/Analysis by LC-MS/MS

IN HOUSE METHOD SOP NO. SGS/IN/CTS LAB/ECO-22-2

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

Perfluorooctane Sulfonate (PFOS)	ND
Perfluorooctanoic Acid (PFOA)	ND
PFUdA	ND
PFDdA	ND
PFTTrDA	ND
PFTeDA	ND

Note : ND - Not Detected : Method Detetion Limit : PFOS : 1 µg/m² / PFOA : 0.05 mg/kg
PFUdA / PFDdA / PFTTrDA / PFTeDA : 0.05 mg/kg

pH VALUE

ISO 3071:2005

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

pH Value 6.9

Note : pH value of extraction medium : 5.0 - 7.5
Temperature of the extraction solution : 25 ±2°C

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TEST REPORT

Report No. : 1442807700

DATE : 26/02/2014

RESULTS

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)

BASE FABRIC WITH PRINT – B/FAB - NATURAL/PRINT – BLUE/YELLOW

No.	Forbidden Amines Substances	CAS-No.	Result mg/kg
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-diaminoanisole/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'-ylenediamine	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'-methylenedi-o-toluidine	838-88-0	ND
14	p-cresidin/6-methoxy-m-toluidine	120-71-8	ND
15	4,4'-methylen-bis-(2-chloro-aniline)/2,2'-dichloro-4,4'-methylene-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-Xylidine	95-68-1	ND
24	2,6-Xylidine	87-62-7	ND
Conclusion			PASS

TEST REPORT

Report No. : _____

DATE : 26/02/2014

RESULTS

Note: ND=Not Detected

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

Max Limit = 20 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.

TEST REPORT

Report No. :

DATE : 26/02/2014

RESULTS

COLOUR FASTNESS TO SALIVA & PERSPIRATION

LFGB § 64 BVL B.82.10.1:1985

8
STAINING ON FILTER PAPER 5

COLOUR FASTNESS TO RUBBING

ISO 105X12:2001

6
DRY 4
WET 3

End of Page ..

COLOUR FASTNESS TO PERSPIRATION

ISO 105 E04:2013

	ACIDIC	ALKALINE
<u>7</u>		
COLOUR CHANGE	#	#
STAINING ON ACETATE	4-5	4-5
STAINING ON COTTON	4-5	4-5
STAINING ON NYLON	4-5	4-5
STAINING ON POLYESTER	4-5	4-5
STAINING ON ACRYLIC	4-5	4-5
STAINING ON WOOL	4-5	4-5
SELF STAINING	4-5	4-5

--> Base, Print all colours: 4-5

COLOUR FASTNESS TO WATER

ISO 105 E01:2013

9
COLOUR CHANGE Base, Print all colours: 4-5
STAINING ON ACETATE 4-5
STAINING ON COTTON 4-5
STAINING ON NYLON 4-5
STAINING ON POLYESTER 4-5
STAINING ON ACRYLIC 4-5
STAINING ON WOOL 4-5
SELF STAINING 4-5

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

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