

Test Item(s)	CAS NO.	Body
4,4'-thiodianiline	139-65-1	ND
o-toluidine	95-53-4	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	ND
2,4,5-trimethylaniline	137-17-7	ND
4-aminoazobenzene	60-09-3	ND
O-Anisidine	90-04-0	ND
<b>Conclusion</b>		<b>PASS</b>

Notes :

n.d. = not detected

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

**Max. Limit : 30 mg/kg (for individual compound)**

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 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.

Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006

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



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# Test Report

No. SL617162907016TX

Date: Jan 03, 2018

Page 4 of 4

Test Item(s)	CAS NO.	Body
4,4'-thiodianiline	139-65-1	ND
o-toluidine	95-53-4	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	ND
2,4,5-trimethylaniline	137-17-7	ND
4-aminoazobenzene	60-09-3	ND
O-Anisidine	90-04-0	ND
Conclusion		PASS

## Notes :

n.d. = not detected

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

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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.

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Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006

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



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4-aminoazobenzene	60-09-3	ND
O-Anisidine	90-04-0	ND
<b>Conclusion</b>		<b>PASS</b>

Notes :

n.d. = not detected

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

**Max. Limit : 30 mg/kg (for individual compound)**

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

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to

verify the presence of 4-aminoazobenzene.

Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006

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



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**Test Report**

No. SL617162907016TX

Date: Jan 03, 2018

Page 1 of 4

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : One woven baby's facecloth: 100%cotton in white(80cm\*80cm)  
 Country of Origin : China  
 Exported to : Malaysia  
 Sample Receiving Date : Dec 20, 2017  
 Test Performing Period : Dec 29, 2017 - Jan 03, 2018  
 Test Performed : Selected tests as requested by applicant against Client's performance standard.

Test Result(s) : Please refer to the next page(s).

Signed for and on behalf of  
SGS-CSTC Standards Technical  
Services Co., Ltd. HangZhou Branch

Anthony Gao (Account Executive)



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Test Report

No. SL617162907016TX

Date: Jan 03, 2018

Page 3 of 4

Azo Dyes

Test Method : All Textile: According to EN 14362-1:2012 – Analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	Body
4-Aminobiphenyl benzidine	92-67-1	ND
4-chloro-o-toluidine	92-87-5	ND
2-naphthylamine	95-69-2	ND
o-aminoazotoluene	91-59-8	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	97-56-3	ND
4-chloroaniline	99-55-8	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	106-47-8	ND
4,4'-diaminodiphenylmethane	615-05-4	ND
3,3'-dichlorobenzidine	101-77-9	ND
3,3'-dimethoxybenzidine	91-94-1	ND
3,3'-dimethylbenzidine	119-90-4	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane / 4,4'-methylenedi-o-toluidine	119-93-7	ND
p-cresidine	838-88-0	ND
4,4'-methylene-bis-(2-chloroaniline)	120-71-8	ND
4,4'-oxydianiline	101-14-4	ND
	101-80-4	ND



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Test Report

No. SL617162907016TX

Date: Jan 03, 2018

Page 2 of 4

**Test Result:**

**Colour Fastness To Washing**

(EN ISO 105-C06:2010; Test No. A2S, Machine wash at 40 degree C with 4g/l 'ECE(B)' detergent and 1g/l Sodium perborate solution with 10 steel balls.)

Change in shade	4-5
Staining on multi-fiber stripe	
Acetate	4-5
Cotton	4-5
Nylon	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

**Present of Fluorescence Agent**

(In House Method)

Observation under UV lighting

Test Result

Negative

Note: Negative: No fluorescence agent was found on the submitted sample  
Positive : Fluorescence agent was found on the submitted sample

**Fibre Content**

(ISO/TR 11827:2012,EU 1007/2011)

	Body
Cotton (%)	100

**Formaldehyde**

Test Method : According to EN ISO 14184-1: 2011, analysis was performed by UV-Vis.

Test Item(s)	CAS NO.	Body
Formaldehyde	50-00-0	ND

Notes :

MDL(Method Detection Limit):16 mg/kg  
ND = Not Detected(< MDL)



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