

ANALYTICAL REPORT

Analytical Report Nr. **AR-19-YL-009360-01** Date **12/12/2019**

Center for Strategic Research and Development of Georgia
 For the attention of Vakhtang Kobaladze
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SAMPLE CODE
560-2019-00010187

Order Code: EUAA70-00005250
 Reception Date: 4-Dec-2019
 Analysis starting date: 10-Dec-2019
 Analysis ending date: 12-Dec-2019
 Sample described as: Piece of fabric


Information provided by the customer:

Client reference: 6
 Purchase Order Number:
 Customer requirements: REACH Regulation (EC) No 1907/2006
 Description: Shirt dark purple

| CHEMICAL TESTS | RESULTS | LOQ | GUIDELINES |
|--|----------|-----|---|
| YLN1E Determination of azo dyes | | | |
| 4-Aminobiphenyl | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |
| Benzidin | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |
| 4-Chlorotoluidine | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |
| 2-Naphthylamine | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |
| p-Chloroaniline | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |
| 2,4-Diaminoanisole | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |
| 4,4-Diaminodiphenylmethan | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |
| 3,3-Dichlorobenzidine | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |
| 3,3-Dimethoxybenzidine | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |
| 3,3-Dimethylbenzidine | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |
| 4,4-Diamino-3,3-dimethyl diphenylmethane | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |
| p-Cresidine | <5 mg/kg | 5 | REACH : < 30 mg/kg  Pass |

Analysis ending date: 10/12/2019

| CHEMICAL TESTS | RESULTS | LOQ | GUIDELINES |
|----------------|---------|-----|------------|
|----------------|---------|-----|------------|

YLN1E Determination of azo dyes

Analysis ending date: 10/12/2019

| | | | | | |
|-----------------------------------|----|-------|---|--------------------|--------|
| 4,4-Methylene-bis-2-chloroaniline | <5 | mg/kg | 5 | REACH : < 30 mg/kg | ✓ Pass |
| 4-Aminophenileter | <5 | mg/kg | 5 | REACH : < 30 mg/kg | ✓ Pass |
| 4,4-Thioaniline | <5 | mg/kg | 5 | REACH : < 30 mg/kg | ✓ Pass |
| o-Toluidine | <5 | mg/kg | 5 | REACH : < 30 mg/kg | ✓ Pass |
| 2,4-Diaminotoluene | <5 | mg/kg | 5 | REACH : < 30 mg/kg | ✓ Pass |
| 2,4,5-Trimethylaniline | <5 | mg/kg | 5 | REACH : < 30 mg/kg | ✓ Pass |
| o-Anisidine | <5 | mg/kg | 5 | REACH : < 30 mg/kg | ✓ Pass |
| 2,4-Xylidine | <5 | mg/kg | 5 | | |
| 2,6-Xylidine | <5 | mg/kg | 5 | | |
| Aniline | <5 | mg/kg | 5 | | |
| 1-4-phenylenediamine | <5 | mg/kg | 5 | | |

Detection and quantification method: GC/MS

Sampling procedure: Section 9 EN 14362-1:2017

Evaluation Procedure - Point 10.2 (EN 14362-1:2017)

Amines o-aminoazotoluene and 5-nitro-o-toluidine are further reduced to o-toluidine and 2,4-diaminotoluene.

Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline (CAS number 62-53-3) and 1,4 phenylenediamine (CAS-number 106-50-3). Due to detection limits, only aniline may be detected. The presence of these colorants should be tested by EN 14362-3.

◆ YLN1I Determination of Cadmium and Lead

Analysis ending date: 12/12/2019

| | | | | | |
|--------------|---------|---|--------|-------------------|--------|
| Lead (Pb) | <0.0005 | % | 0.0005 | REACH: < 0.0500 % | ✓ Pass |
| Cadmium (Cd) | <0.0005 | % | 0.0005 | REACH: < 0.0100 % | ✓ Pass |

List Of Methods

YLN1E **Determination of azo dyes:** EN ISO 14362-1:2017

YLN1I **Determination of Cadmium and Lead:** Internal Method based on CPSC-CH-E1002-08.3 for Cd, ICP-MS; CPSC-CH-E1002-08.3

Signed for and on behalf of Eurofins Textile Testing Spain:



Report electronically validated by

Maria Jesus Martinez Puig

Chemical Lab manager

EXPLANATORY NOTE

- ◆ Test not accredited
 - Test is subcontracted within Eurofins group and is accredited
 - Test is subcontracted within Eurofins group and is not accredited
 - Test is subcontracted outside Eurofins group and is accredited
 - Test is subcontracted outside Eurofins group and is not accredited
- N/A = Not Applicable
Not detected = below Detection Limit

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End Of Report

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