

ANDUM PROTECTIVE EQUIPMENT TECHNOLOGY (CHANGZHOU) CO.,LTD.
NO.216, QIANJIE, HENGSHANQIAO TOWN, CHANGZHOU ECONOMIC ZONE, CHANGZHOU, JIANGSU,
CHINA.

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

Sample Description : (A)Mask (Red and white)
SGS Internal Ref.No. : SHHL2104017908SD
Sample Color : (A)red white
Composition : (A)50% non-woven 30% melt-blown 20% hot air cotton
Other Info. : Sample Type: Samples from bulk

Proposed Care Instruction : -

Sample Receiving Date : Apr 23, 2021
Testing Period : Apr 28, 2021 - May 17, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Changzhou) Co., Ltd Testing Center



Susan Dong (Account Executive)



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Textile Laboratory

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COMPONENT LIST / List of Materials

| Sample No. | Component No. | Description | Material | Color | Remark |
|------------|---------------|----------------------------|------------------|---------------|--------|
| A | 1 | RED PRINT WITH FACE FABRIC | Synthetic Fibers | RED | |
| A | 2 | face fabric | Blended Fibers | red and white | |
| A | 3 | back fabric | Blended Fibers | white | |

Test Result

Azo Dyes (Colorant Extraction)

Textile: According to EN ISO 14362-1:2017 – Analysis was conducted with GC-MS/HPLC-DAD.

| Test Item(s) | Cas No | Result (mg/kg) |
|--|----------|---------------------|
| | | 1 |
| | | Colorant Extraction |
| 4-Aminobiphenyl | 92-67-1 | ND |
| Benzidine | 92-87-5 | ND |
| 4-Chlor-o-toluidine | 95-69-2 | ND |
| 2-Naphthylamine | 91-59-8 | ND |
| o-Aminoazotoluene | 97-56-3 | ND |
| 5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene | 99-55-8 | ND |
| 4-Chloroaniline | 106-47-8 | ND |
| 4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole | 615-05-4 | ND |
| 4,4'-Diaminodiphenylmethane, MDA | 101-77-9 | ND |
| 3,3'-Dichlorobenzidine | 91-94-1 | ND |
| 3,3'-Dimethoxybenzidine | 119-90-4 | ND |
| 3,3'-Dimethylbenzidine | 119-93-7 | ND |
| 4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane | 838-88-0 | ND |
| p-Cresidine | 120-71-8 | ND |
| 4,4'-Methylene-bis-(2-chloroaniline) | 101-14-4 | ND |
| 4,4'-Oxydianiline | 101-80-4 | ND |
| 4,4'-Thiodianiline | 139-65-1 | ND |
| o-Toluidine | 95-53-4 | ND |
| 4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine, TDA | 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 |

Requirement: 30mg/kg

Note:



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ND = Not Detected

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

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

Remark:

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

+Colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 Clause 10.1 and relevant clauses

4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.

In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.

EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "n.d." (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

pH Value

(ISO 3071:2020; 0.1mol/L KCL extraction)

| | Unit | 2 | 3 |
|----------|------|-----|-----|
| pH Value | - | 6.5 | 7.0 |

Note:

- 1) pH value of extraction medium: 5.9
- 2) Temperature of the extraction solution: 20.6°C



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Sample Photo



End of Report



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