

Test Report

No. CANEC2121427301

Date: 23 Nov 2021

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GAUKE HEALTHCARE CO LTD

NO. 82, TUANFENG AVENUE, TUANFENG TOWN, TUANFENG, HUANG GANG CITY, HUBEI PROVINCE, 438800, P.R.CHINA.

The following sample(s) was/were submitted and identified on behalf of the clients as : Reflective warning west

SGS Job No. : 10001666 - CQ
Model No. : GKV-001
Date of Sample Received : 16 Nov 2021
Testing Period : 16 Nov 2021 - 23 Nov 2021
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

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

Coral Qiu

Coral Qiu
Approved Signatory

scan to see the report



BF2073EB



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center Chemical Laboratory.

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-214273.001	Yellow fabric
SN2	CAN21-214273.002	Gray fabric

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Azo Dyes

Test Method : With reference to EN ISO14362-1:2017, analysis was conducted with GC-MS/HPLC-DAD.
Determination of 4-aminoazobenzene (CAS No.:60-09-3): with reference to EN ISO14362-3:2017, analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001	
					Method A	Method B
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND



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Test Item(s)	CAS NO.	Limit	Unit	MDL	001	
					Method A	Method B
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'- Dimethyl-4,4'-diaminodiphenylm ethane	838-88-0	30	mg/kg	5	ND	ND
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-methylene-bis- (2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-toluidine	95-53-4	30	mg/kg	5	ND	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
					<i>Method A</i>	<i>Method B</i>
4-methyl-m-phenylenediamine / 2,4-Toluylenediamine, TDA	95-80-7	30	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND
Comment					PASS	PASS

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
					<i>Method A</i>	<i>Method B</i>
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND



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Test Item(s)	CAS NO.	Limit	Unit	MDL	002	
					Method A	Method B
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'- Dimethyl-4,4'-diaminodiphenylm ethane	838-88-0	30	mg/kg	5	ND	ND
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-methylene-bis- (2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND



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Test Item(s)	CAS NO.	Limit	Unit	MDL	002	
					Method A	Method B
o-toluidine	95-53-4	30	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	30	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND
Comment					PASS	PASS

Notes :

1. Direct reduction (Method A) refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.
2. 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.
3. 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.
4. 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 "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the



presence of 4-AAB.



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Sample photo:



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*** End of Report ***

