



TEST REPORT

Technical Report: (6720)167-0261

June 16, 2020

Date Received: June 15, 2020

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MATRIX MULTITECH PRIVATE LIMITED

ATT:

VILL - DHULAGORI , P.O. – DHULAGORI, P.S.-SANKRAIL
N.H. 6, HOWRAH, WEST BENGAL -711302

Sample Description: PURPLE ZIPPER NO-5
(Sample received in good condition)

Color:	/	Style No.:	/
Order No.:	/	Batch No.:	/
Age Grade:	/	Product End Use:	/
Vendor:	MATRIX MULTITECH PRIVATE LIMITED	Retest No.:	/
Manufacturer:	/	Supplier Reference:	/
Pretesting for (Client name):	/	Country of Origin:	/
Test Period:	June 15, 2020 to June 16, 2020	Country of Destination:	/

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
AZO DYES CONTENT TEST	PASS	

NOTE: The test has been conducted as per vendor's request.

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (INDIA) PVT. LTD.

SIGNATORIES

CHHATISH KUMAR NATH
(Dy. Manager – Analytical)

RAHUL SRIVASTAVA
(Manager – Analytical)

PLEASE CONTACT:

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C/N: (6720)167-0261 RS/RS

"Pls. refer the website www.nabl-india.org to view our Scope of accredited Test"

Bureau Veritas Consumer
Products Services (India) Pvt. Ltd.,
C-19, Sec – 7 Noida (U.P.) 201301
PH: 4368283/205

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Photo of the Submitted Sample



TEST RESULT

Azo Dyes Content Test

Test Method I : EN 14362-1:2017

Test Method II : ISO 17234-1:2015

Test Method III : EN 14362-3:2017 (For textile)/ ISO 17234-2:2015 (For leather)

Quantification analysis by GC-MS and confirmation by LC-DAD.

Tested Item(s) : **A** PURPLE ZIPPER NO-5 TAPE

Limit:	30 mg/kg				
Tested Item(s)	Test Method	Result			Conclusion
		Detected Analyte(s)	Conc.	Unit	
A	I	ND	ND	mg/kg	PASS

Note:

ND = Not detected

“>” = More than

Conc. = Concentration

mg/kg = milligram per kilogram

Detection Limit (mg/kg): Each 5

Remark:

- The list of amines in azo dyestuff is summarized in table of Appendix.

Remark:

- 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.
- Azo colorants that are able to form p-aminoazobenzene, generate aniline and 1,4-phenylenediamine under the condition of this method. Aniline and 1,4-phenylenediamine are not detected under the condition of this method.
- The presence of these colorants cannot be confirmed by the method stated as above. The result of p-aminoazobenzene shown is analysed and confirmed by EN 14362-3/ ISO 17234-2.

APPENDIX

List of Amines in Azo Dye stuff:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	4-Aminodiphenyl	92-67-1	13	4,4'-Methylenedi-o-toluidine (3,3'-Dimethyl-4,4'-diaminodiphenylmethane)	838-88-0
2	Benzidine	92-87-5	14	p-Cresidine	120-71-8
3	4-Chloro-o-toluidine	95-69-2	15	4,4'-Methylene-bis-(2-chloraniline)	101-14-4
4	2-Naphthylamine	91-59-8	16	4,4'-Oxydianiline	101-80-4
5	o-Aminoazotoluene	97-56-3	17	4,4'-Thiodianiline	139-65-1
6	5-nitro-o-toluidine (2-Amino-4-nitrotoluene)	99-55-8	18	o-Toluidine	95-53-4
7	4-Chloroaniline (p-Chloroaniline)	106-47-8	19	4-Methyl-m-phenylenediamine (2,4-Toluenediamine)	95-80-7
8	4-Methoxy-m-phenylenediamine (2,4-Diaminoanisole)	615-05-4	20	2,4,5-Trimethylaniline	137-17-7
9	4,4'-Methylenedianiline (4,4'-Diaminodiphenylmethane)	101-77-9	21	o-Anisidine	90-04-0
10	3,3'-Dichlorobenzidine	91-94-1	22	4-Aminoazobenzene (p-Aminoazobenzene)	60-09-3
11	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	23	2,4-Xylidine	95-68-1
12	3,3'-Dimethylbenzidine (4,4'-Bi-o-toluidine)	119-93-7	24	2,6-Xylidine	87-62-7

END