

TEST REPORT

REPORT NUMBER : TURT180122960
APPLICANT NAME : Client: KARIKI D. SOLE PARTNERSHIP LTD - COMPANY
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DESCRIPTION : One sample of Fuchsia liquid item (PLASTIZOL FLUORESENT)
DATE IN : 29 Jan ,2021 (09:00:00)
DATE OUT : 29 Jan ,2024

NOTE : Test methods and test limits were given by the applicant.

TEST	SAMPLE
Detection of Amines Derived From Azocolourants and Azodyes	1
Determination of Alkylphenolethoxylates (APEO) for Textile	P
Determination of Free and Hydrolised Formaldehyde Test (Water extraction method)	P
Determination of Phthalate Content	P
Determination of Polychlorophenols	P
Determination of Total Heavy Metal	P
Dispersed Dyes (Carcinogenic and Allergenic Dyes)	P
Organotin Compounds	P
pH Determination of Aqueous Extract	NA

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE / LS = LACK OF SAMPLE / NC = NO COMMENT / I = INCONCLUSIVE / # = SEE RESULT / NF = NEEDS FURTHER TESTING / A = ABSENT / M = MARGINAL ACCEPT / SD = SEE DETAILS ENCLOSED / FS: FURTHER STEPS

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180122960

Test Method	Results	Requirements
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Detection of Amines Derived From Azocolourants and Azodyes

BS EN 14362-1:2012 for Textile Material

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

1-Fuchsia liquid item (without extraction)

<20 ppm

<u>FORBIDDEN AMINE</u>	<u>CAS NO</u>	<u>RESULTS</u>
		1
4-AMINOBIIPHENYL	92-67-1	N
BENZIDINE	92-87-5	N
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2	N
2-NAPHTHYLAMINE	91-59-8	N
*O-AMINOAZOTOLUENE	97-56-3	N
*2-AMINO-4-NITROTOLUENE	99-55-8	N
P-CHLOROANILINE	106-47-8	N
2,4-DIAMINOANISOLE	615-05-4	N
4,4'-DIAMINOBIIPHENYLMETHANE	101-77-9	N
3,3'-DICHLOBENZIDINE	91-94-1	N
3,3'-DIMETHOXYBENZIDINE	119-90-4	N
3,3'-DIMETHYLBENZIDINE	119-93-7	N
3,3'-DIMETHYL-4,4' DIAMINOBIIPHENYLMETHANE	838-88-0	N
P-CRESIDINE	120-71-8	N
4,4'-METHYLENE-BIS-(2 CHLOROANILINE)	101-14-4	N
4,4'-OXYDIANILINE	101-80-4	N
4,4'-THIODIANILINE	139-65-1	N
O-TOLUIDINE	95-53-4	N
2,4-TOLUENEDIAMINE	95-80-7	N
2,4,5-TRIMETHYLANILINE	137-17-7	N
O-ANISIDINE	90-04-0	N
**P-AMINOAZOBENZENE	60-09-3	N
2,4 XYLIDINE	95-68-1	N
2,6 XYLIDINE	87-62-7	N

Note:

- 1)The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluenediamine.
- 2)Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenyldiamine . The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.
- 3)According to EN 14362-1:2012, separate test is suggested to ascertain the compliance for result of mixed test in the range between 5 ppm and 30 ppm.
- 4)Azocolourants Content Requirement In Annex XVII Item 43 Of The REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC
- 5) According to the official method EN 14362-1:2012, if 4-Aminodiphenyl or 2-Naphthylamine or 2,4-Diaminoanisole is found exceeding requirement, the use of forbidden Azo colourants cannot be ascertained without additional information e.g. The chemical structure of the colourant used.

ppm : part per million (mg/kg) Detection Limit: 5 ppm < = Less Than N: Not Detected NC : No Comment

Estimated Total Uncertainty=(±9%)

Test Method	Results	Requirements
Determination of Alkylphenoethoxylates (APEO) for Textile		
BS EN ISO 18254-1:2016		
Determination of APEO by Liquid Chromotography-Mass Spectrometry (LC-MS-MS) Analysis		
<u>Alkylphenols</u>		
Nonylphenol (NP)	Not Detected	100 ppm
Octylphenol (OP)	Not Detected	100 ppm
<u>Alkylphenol Ethoxylates</u>		
Nonylphenoethoxylates (NPEO)	Not Detected	100 ppm
Octylphenoethoxylates (OPEO)	Not Detected	100 ppm
ppm = mg/kg		
Detection Limit = 1 ppm		

Estimated Total Uncertainty=(±5%)

Determination of Free and Hydrolised Formaldehyde Test (Water extraction method)

BS EN ISO 14184 - 1 :2011 Free and Hydrolized Formaldehyde by UV-VIS Analysis

	18 ppm	<75 ppm
ppm (part per million)	=mg / kg	
Detection Limit	=5 ppm	
<	=Less Than	
Estimated Total Uncertainty=(±6%)		
Note :Sample was received unsealed		

Test Method	Results	Requirements
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Determination of Phthalate Content

ISO 14389 : 2014 Method by Gas Chromatography - Mass Spectrometry (GC-MS) Analysis

	CAS NO	RESULT	Requirement
DIBUTYL PHTHALATE (DBP)	84-74-2	Not Detected	1000 ppm
DIETHYL HEXYL PHTHALATE (DEHP)	117-81-7	Not Detected	
BENZYL BUTYL PHTHALATE (BBP)	85-68-7	Not Detected	
DI-ISO-BUTYL PHTHALATE (DIBP)	84-69-5	Not Detected	
BIS(2-METHOXYETHYL) PHTHALATE (BMEP)	117-82-8	Not Detected	
DI-ISO-HEPTYL PHTHALATE (DIHP)	71888-89-6	Not Detected	
DI-ISO-NONYL PHTHALATE (DINP)	28553-12-0	Not Detected	
DI-N-OCTYL PHTHALATE (DNOP)	117-84-0	Not Detected	
DI-ISO-DECYL PHTHALATE (DIDP)	26761-40-0	Not Detected	

ppm (part per million) =mg / kg
< =Less Than

Detection Limit = DIDP, DINP : 100 ppm, Other Phthalates : 10 ppm
* =EXCEEDED LIMIT ND : Not Detected

Estimated Total Uncertainty=(±6%)

Determination of Polychlorophenols

UNI 11057:2003 - Gas Chromatography-Mass Detector (MS)

	Result	Requirement
Pentachlorophenol (PCP)	Not Detected	1 ppm
Tetrachlorophenol (TeCP)		1 ppm
2,3,5,6 Tetrachlorophenol	Not Detected	
2,3,4,6 Tetrachlorophenol	Not Detected	
2,3,4,5 Tetrachlorophenol	Not Detected	

ppm (part per million) =mg / kg
< = Less Than

Detection Limit = PCP, TeCP : 0.05 ppm (lower limit) or 0.5 ppm
ND = Not Detected

Remark : PCP Content Requirement in Annex XVII Item 22 of the Reach Regulation (EC) No : 1907/2006

Estimated Total Uncertainty=(± 8%)

Test Method	Results	Requirements	
Determination of Total Heavy Metal			
BS EN 16711-1:2015 Determination of metals using microwave digestion			
By Inductively Coupled Plasma-Mass Spectrofotometry (ICP-MS)			
	Result	Detection Limit	Requirement
Cadmium (Cd)	Not Detected	0.1 ppm	50 ppm

< = less than ppm: parts per million (mg/kg)

Estimated Total Uncertainty=(±8%)

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Test Method	Results	Requirements
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Dispersed Dyes (Carcinogenic and Allergenic Dyes)

IHTM AL.2.090 & AL.2.178 refer to DIN 54231:2005

By High Performance Liquid Chromatography&Mass Spectroscopy (LC-MS-MS) & HPLC - DAD Analysis

	Result	Requirement
Disperse Blue 1	Not Detected	5 mg/L
Basic Red 9	Not Detected	
Disperse Blue 3	Not Detected	
Disperse Orange 76/59/37	Not Detected	
Basic Violet 1	Not Detected	
Disperse Blue 106	Not Detected	
Disperse Red 1	Not Detected	
Basic Violet 3	Not Detected	
Disperse Blue 124	Not Detected	
Solvent Yellow 1	Not Detected	
Acid Red 26	Not Detected	
Disperse Yellow 3	Not Detected	
Solvent Yellow 2	Not Detected	
Acid Violet 49	Not Detected	
Disperse Orange 3	Not Detected	
Solvent Yellow 3	Not Detected	
Disperse Orange 11	Not Detected	
Disperse Yellow 9	Not Detected	
Disperse Blue 7	Not Detected	
Disperse Yellow 39	Not Detected	
Disperse Blue 26	Not Detected	
Direct Black 38	Not Detected	
Disperse Yellow 49	Not Detected	
Disperse Blue 35	Not Detected	
Direct Red 28	Not Detected	
Disperse Blue 102	Not Detected	
Basic Violet 14	Not Detected	
Direct Blue 6	Not Detected	
Disperse Brown 1	Not Detected	
Disperse Red 17	Not Detected	
Disperse Orange 1	Not Detected	
Disperse Red 11	Not Detected	
Disperse Yellow 1	Not Detected	
Disperse Yellow 23	Not Detected	
Disperse Orange 149	Not Detected	

ppm = part per million (mg/kg)
Detection Limit =3 ppm
< = Less Than

Estimated Total Uncertainty=(±10%)

Test Method	Results	Requirements
Organotin Compounds		
ISO/TS 16179:2012 by Gas Chromotography – Mass Spectrometry (GC-MS) Analysis		
	Results	Requirements
DIBUTYLTIN (DBT)	Not Detected	1 ppm
TRIBUTYLTIN (TBT)	Not Detected	0.1 ppm
TRIPHENYLTIN (TPHT)	Not Detected	1 ppm
DIOCTYLTIN (DOT)	Not Detected	1 ppm
MONOBUTYLTIN (MBT)	Not Detected	1 ppm
ppm (part per million)	=mg / kg	
Detection Limit	=0.02 ppm	
Estimated Total Uncertainty=(±10%)		



END OF TEST REPORT

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