TEST REPORT

REPORT NUMBER : **TURA150017061**

APPLICANT NAME : **Anadolu Kimya San. ve Tic. Ltd. Şti.**

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Attention : **Gürkan Kaya (gurkan.kaya@anadolukimya.com)**

SAMPLE DESCRIPTION : One sample of FR 410 Fluorescent Yellow (Batch No : 2014.11106-K03) Dye

DATE IN : **30 January ,2015 (15:43)**

DATE OUT : **9 February ,2015**

TEST	SAMPLE 1
APEO Test	P
Detection of Amines Derived From Azocolourants and Azodyes	P
Determination of Free and Hydrolised Formaldehyde Test (Water extraction method)	P

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

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and TÜRKAK accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainty considered. When uncertainty is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of TÜRKAK accreditation. Tests marked ¤ in this test report are not included in the TÜRKAK accreditation schedule for this laboratory.

Aşkın GÜNERİ
COORDINATOR

Neslihan Sözer
Chemical Laboratory Manager

Intertek Test Hizmetleri A.S.
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150017061

Test Method	Results	Requirements
APEO Test		
INTERTEK IHTM AL.2.037		
Alkylphenols		
Nonylphenol (NP)	Not Detected	100 ppm
Octylphenol (OP)	Not Detected	
Alkylphenol Ethoxylates		
Nonylphenolethoxylates (NPEO)	Not Detected	100 ppm
Octylphenolethoxylates (OPEO)	Not Detected	

ppm = mg/kg
reporting limit = 2 ppm

Requirement = 100 ppm total according to 2003/53/EC

Estimated Total Uncertainity=(Plastic:±4% ; Textile:±3%)

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Test Method	Results	Requirements

Detection of Amines Derived From Azocolourants and Azodyes

Test Method : BS EN 14362 - 1 : 2012 for Textile Material

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

1)Fluorescent Yellow dye (without extraction) <20 ppm

		RESULTS
FORBIDDEN AMINE	**CAS NO**	**1**
4-AMINOBIPHENYL	92-67-1	N
BENZIDINE	92-87-5	N
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2	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'-DIAMINOBIPHENYLMETHANE	101-77-9	N
3,3'-DICHLOROBENZIDINE	91-94-1	N
3,3'-DIMETHOXYBENZIDINE	119-90-4	N
3,3'-DIMETHYLBENZIDINE	119-93-7	N
3,3'-DIMETHYL-4,4' DIAMINOBIPHENYLMETHANE	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-TOLUENDIAMINE	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- toluylenediamine.
2)Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenylendiamine . 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

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

Estimated Total Uncertainity=(±9%)

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Test Method	Results	Requirements
Determination of Free and Hydrolised Formaldehyde Test (Water extraction method) BS EN ISO 14184 - 1 :2011 Free and Hydrolized Formaldehyde by UV-VIS Analysis	<5 ppm	<16 ppm

ppm (part per million) =mg / kg
Detection Limit =5 ppm
< =Less Than
Estimated Total Uncertainity=(±6%)

END OF TEST REPORT

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