

TEST REPORT

REPORT NUMBER :

TURA120021593

APPLICANT NAME

Lisans Kir.Of.Ger.San.ve Tic. A.Ş.

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FAX NO :0216 415 09 92

Attention :Okan Sivas (osivas@lisans.as.com; okansivasgmail.com)

ADDRESS

SAMPLE DESCRIPTION :

One sample of Artdeco waterbased glass dye

BUYER :

TÜKİD

DATE IN :

28 February, 2012

DATE OUT :

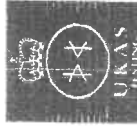
09 March, 2012

PHOTO OF PRODUCT TESTED :



Part No	Tested Part
1	YELLOW DYE
2	RED DYE
3	BLUE DYE
4	GREEN DYE
5	WHITE DYE
6	BLACK DYE
7	WHITE PLASTIC COVER
8	TRANSPARENT OUTER PLASTIC
9	TRANSPARENT COVER
10	MULTICOLOUR PAPER

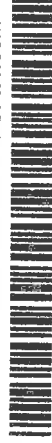
Zeynep Akın
Assistant Chemical Laboratory Manager

Neslihan Sözer
Chemical Laboratory Manager


2111

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RESULTS

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09 March, 2012

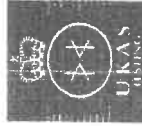
Code	Test Method	Result	Requirements
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RESULTS :

Analysis Parameter	Reference Analysis Method	PASS	FAIL	Norm Limit	Standard for Norm Limit	Tested Part
Azo Dyes	64 LFBG B 82.02.2	P	-	30 ppm Sb: 60 ppm As: 25 ppm Ba: 1000 ppm Cd: 75 ppm Cr: 60 ppm Pb: 90 ppm Hg: 60 ppm Se: 500 ppm	2004/21/EC	Part 1-10
Toxic Element Analysis	BS EN 71-3:1995	P	-		EN 71-3	Part 1-10
Phthalate	EN 14372 by GC MS	P	-	DBP/DEHP/BBP : 1000 ppm DINP/DNOP/ DIDP 1000 ppm	(27893) Notification On Market Supervision And Controls Regarding Hazardous Chemical Contents Of Some End- User Products	Part 1-10

P = MEETS BUYER'S REQUIREMENT / F = DOES NOT MEET BUYER'S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED

The test results relate only to the items tested. The report shall not be reproduced except in full, without the written approval of the laboratory. 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 UKAS accreditation requirements. Unless otherwise 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 UKAS accreditation. Tests marked (*) in this test report are not included in the UKAS accreditation schedule for this laboratory.



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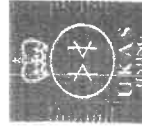
e-mail : labtest.turkey@intertek.com

www.intertek-labtest-tur.com

Code	Test Method	Result	Requirements
Azo Dyestuff			
64 LFGB 82.02.2:2004	Determination of Certain aromatic Amines derived from azo colorants followed by GC- MS Analysis		
Part 1&2&3&4&5&6&7&8&9&10			
1) Composite sample of Yellow, Red, Blue dye			PASS 30 ppm
2) Composite sample of Green, White, Black dye			PASS 30 ppm
3) Composite sample of White plastic cover, Transparent outer plastic, Transparent cover			PASS 30 ppm
4) Multicolour paper			PASS 30 ppm
INTERPRETATION OF AZO-DYES TEST RESULTS:			
AS PER GERMAN TEST PROCEDURE FOR DETECTION OF CARCINOGENIC AMINES IN DYED MATERIALS PUBLISHED IN THE OFFICIAL COMPILATION OF TEST METHODS TEXTILE ACCORDING TO § 64 LFGB 82.02-2, LEATHER ACCORDING TO § 64 LFGB 82.02-3, PES ACCORDING TO § 64 LFGB 82.02-4, EXTRACTED BY CITRATE BUFFERED SOLUTION pH 6 AT 70 °C AND DETECTED BY GC/MS AND CONTROLLED BY HPLC/DAD AND THIN LAYER CHROMATOGRAPHIC ANALYSIS.			
FORBIDDEN AMINE			
4-AMINOBIPHENYL BENZIDINE			CAS NO 92-67-1
CHLORO-O-4-CHLOR-O-TOLUIDINE			92-87-5
2-NAPHTHYLAMINE			95-69-2
*O-AMINOAZOTOLUENE			91-59-8
*2-AMINO-4-NITROTOLUENE			97-56-3
P-CHLOROANILINE			99-55-8
2,4-DIAMINOANISOLE			106-47-8
4,4'-DIAMINOBIPHENYLMETHANE			615-05-4
3,3'-DICHLOROBENZIDINE			101-77-9
3,3'-DIMETHOXYBENZIDINE			91-94-1
3,3'-DIMETHYLBENZIDINE			119-90-4
3,3'-DIMETHYL-4,4' DIAMINOBIPHENYLMETHANE			119-93-7
P-CRESIDINE			838-88-0
4,4'-METHYLENE-BIS-(2 CHLOROANILINE)			120-71-8
4,4'-OXYDIANILINE			101-14-4
4,4'-THIODIANILINE			101-80-4
O-TOLUIDINE			139-65-1
2,4-TOLUYLENDIAMINE			95-53-4
2,4,5-TRIMETHYLANILINE			95-80-7
O-ANISIDINE			137-17-7
**P-AMINOAZOBENZENE			90-04-0
			60-09-3

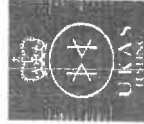
NOTE:* The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4-toluylenediamine. **Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylenediamine. The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.

Remark
 < = Less Than
 ppm(Part per million)= mg/ kg
 Detection Limit = 5 ppm
 Total Uncertainty = ±10%



Code	Test Method	Result	Requirements
Toxic Elements Analysis			
BS EN 71-3:1995 :			
Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-ICP_OES.			
Part 1		RESULT IN ppm	Requirement (ppm)
	Antimony (Sb)	<2 ppm	60
	Arsenic (As)	<2 ppm	25
	Barium (Ba)	<2 ppm	1000
	Cadmium (Cd)	<2 ppm	75
	Chromium (Cr)	<5 ppm	60
	Lead (Pb)	<5 ppm	90
	Mercury (Hg)	<2 ppm	60
	Selenium (Se)	<2 ppm	500
Part 2		PASS/FAIL	
	Antimony (Sb)	PASS	60
	Arsenic (As)	PASS	25
	Barium (Ba)	PASS	1000
	Cadmium (Cd)	PASS	75
	Chromium (Cr)	PASS	60
	Lead (Pb)	PASS	90
	Mercury (Hg)	PASS	60
	Selenium (Se)	PASS	500
Part 3		RESULT IN ppm	Requirement (ppm)
	Antimony (Sb)	<2 ppm	60
	Arsenic (As)	<2 ppm	25
	Barium (Ba)	<2 ppm	1000
	Cadmium (Cd)	<2 ppm	75
	Chromium (Cr)	<5 ppm	60
	Lead (Pb)	<5 ppm	90
	Mercury (Hg)	<2 ppm	60
	Selenium (Se)	<2 ppm	500
Part 4		PASS/FAIL	
	Antimony (Sb)	PASS	60
	Arsenic (As)	PASS	25
	Barium (Ba)	PASS	1000
	Cadmium (Cd)	PASS	75
	Chromium (Cr)	PASS	60
	Lead (Pb)	PASS	90
	Mercury (Hg)	PASS	60
	Selenium (Se)	PASS	500
ppm (Part per million)		=mg / kg	
<		=Less Than	

(Total uncertainty=Results quoted have been corrected for uncertainty -)



Code	Test Method	Result	Requirements
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Toxic Elements Analysis

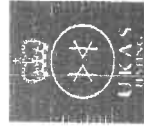
BS EN 71-3:1995 :

Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-ICP_OES.

		RESULT IN ppm	PASS/FAIL	Requirement (ppm)	
Part 5	Antimony (Sb)	<2 ppm	PASS	60	
	Arsenic (As)	<2 ppm	PASS	25	
	Barium (Ba)	<2 ppm	PASS	1000	
	Cadmium (Cd)	<2 ppm	PASS	75	
	Chromium (Cr)	<5 ppm	PASS	60	
	Lead (Pb)	<5 ppm	PASS	90	
	Mercury (Hg)	<2 ppm	PASS	60	
	Selenium (Se)	<2 ppm	PASS	500	
	Part 6	Antimony (Sb)	<2 ppm	PASS	60
		Arsenic (As)	<2 ppm	PASS	25
Barium (Ba)		<2 ppm	PASS	1000	
Cadmium (Cd)		<2 ppm	PASS	75	
Chromium (Cr)		<5 ppm	PASS	60	
Lead (Pb)		<5 ppm	PASS	90	
Mercury (Hg)		<2 ppm	PASS	60	
Selenium (Se)		<2 ppm	PASS	500	
Part 7		Antimony (Sb)	<2 ppm	PASS	60
		Arsenic (As)	<2 ppm	PASS	25
	Barium (Ba)	<2 ppm	PASS	1000	
	Cadmium (Cd)	<2 ppm	PASS	75	
	Chromium (Cr)	<5 ppm	PASS	60	
	Lead (Pb)	<5 ppm	PASS	90	
	Mercury (Hg)	<2 ppm	PASS	60	
	Selenium (Se)	<2 ppm	PASS	500	
	Part 8	Antimony (Sb)	<2 ppm	PASS	60
		Arsenic (As)	<2 ppm	PASS	25
Barium (Ba)		<2 ppm	PASS	1000	
Cadmium (Cd)		<2 ppm	PASS	75	
Chromium (Cr)		<5 ppm	PASS	60	
Lead (Pb)		<5 ppm	PASS	90	
Mercury (Hg)		<2 ppm	PASS	60	
Selenium (Se)		<2 ppm	PASS	500	

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

(Total uncertainty=Results quoted have been corrected for uncertainty -)



Code	Test Method	Result	Requirements
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Toxic Elements Analysis

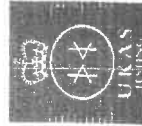
BS EN 71-3:1995 :

Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-ICP_OES.

		<u>RESULT IN ppm</u>	<u>PASS/FAIL</u>	<u>Requirement (ppm)</u>
Part 9	Antimony (Sb)	<2 ppm	PASS	60
	Arsenic (As)	<2 ppm	PASS	25
	Barium (Ba)	<2 ppm	PASS	1000
	Cadmium (Cd)	<2 ppm	PASS	75
	Chromium (Cr)	<5 ppm	PASS	60
	Lead (Pb)	<5 ppm	PASS	90
	Mercury (Hg)	<2 ppm	PASS	60
	Selenium (Se)	<2 ppm	PASS	500
	Part 10	Antimony (Sb)	<2 ppm	PASS
Arsenic (As)		<2 ppm	PASS	25
Barium (Ba)		<2 ppm	PASS	1000
Cadmium (Cd)		<2 ppm	PASS	75
Chromium (Cr)		<5 ppm	PASS	60
Lead (Pb)		<5 ppm	PASS	90
Mercury (Hg)		<2 ppm	PASS	60
Selenium (Se)		<2 ppm	PASS	500

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

(Total uncertainty=Results quoted have been corrected for uncertainty -)



Code	Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis :

Part 1	RESULT (% w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
RESULT (% w/w)	
DI-ISO-NONYL PHTHALATE (DINP)	Not Detected
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK

=The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.

ppm (part per million)

=mg / kg

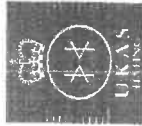
< Detection Limit

=10 ppm

< * Less Than

=EXCEEDED LIMIT

(Total Uncertainty=±5 %)



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Code	Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis

Part 2	RESULT (% w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
RESULT (% w/w)	
DI-ISO-NONYL PHTHALATE (DINP)	Not Detected
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK

=The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.

ppm (part per million)

< Detection Limit

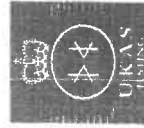
=mg / kg

= 10 ppm

=Less Than

=EXCEEDED LIMIT

(Total Uncertainty=±5 %)



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Code	Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis :

Part 3	RESULT (% w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
DI-ISO-NONYL PHTHALATE (DINP)	RESULT (% w/w)
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK

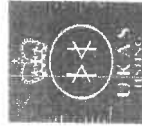
=The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.

ppm (part per million)

Detection Limit

< =mg / kg
 =10 ppm
 =Less Than
 =EXCEEDED LIMIT

(Total Uncertainty=±5 %)



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Code	Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis :

Part 4	RESULT (% w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
Part 4	RESULT (% w/w)
DI-ISO-NONYL PHTHALATE (DINP)	Not Detected
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK

=The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.

ppm (part per million)

=mg / kg

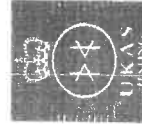
< Detection Limit

=10 ppm

* Less Than

=EXCEEDED LIMIT

(Total Uncertainty=±5 %)



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TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis

Part 5	RESULT (% w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
Part 5	RESULT (% w/w)
DI-ISO-NONYL PHTHALATE (DINP)	Not Detected
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK

=The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.

ppm (part per million)

=mg / kg

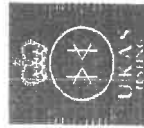
< Detection Limit

=10 ppm

* =Less Than

=EXCEEDED LIMIT

(Total Uncertainty=±5 %)



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RESULTS

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REPORT TURA120021593

09 March, 2012

Code	Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis

Part 7	RESULT (% w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
Part 7	RESULT (% w/w)
DI-ISO-NONYL PHTHALATE (DINP)	Not Detected
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK

= The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.

ppm (part per million)

Detection Limit

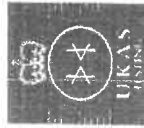
< =mg / kg

* =10 ppm

=Less Than

=EXCEEDED LIMIT

(Total Uncertainty=±5 %)



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Code	Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis

Part 8	RESULT (% w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
RESULT (% w/w)	
DI-ISO-NONYL PHTHALATE (DINP)	Not Detected
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK

=The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.

ppm (part per million)

< Detection Limit

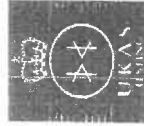
* =Less Than

=EXCEEDED LIMIT

=mg / kg

= 10 ppm

(Total Uncertainty=±5 %)



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Code	Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis :

Part 9	RESULT (% w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
RESULT (% w/w)	
DI-ISO-NONYL PHTHALATE (DINP)	Not Detected
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK

=The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.

ppm (part per million)

Detection Limit

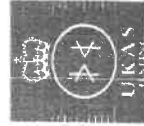
=mg / kg

=10 ppm

=Less Than

=EXCEEDED LIMIT

(Total Uncertainty=±5 %)





RESULTS

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REPORT : TURA120021593

09 March, 2012

Code	Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis

Part 10	RESULT (% w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
RESULT (% w/w)	
DI-ISO-NONYL PHTHALATE (DINP)	Not Detected
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK

=The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005

ppm (part per million)

Detection Limit

<

*

=mg / kg

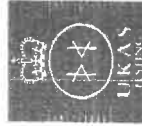
=10 ppm

=Less Than

=EXCEEDED LIMIT

(Total Uncertainty=±5 %)

END OF TEST REPORT



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