

**TEST REPOR****REPORT NUMBER :** TURA120021593**APPLICANT NAME** Lisans Kır.Of.Ger.San.ve Tic. A.Ş.**ADDRESS**Bostancıyolu Cd.Emin Sk. No:32 Yukarıdudullu Ümraniye İstanbul TÜRKİYE  
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Attention :Okan Sivas (osivas@lisans.as.com; okansivasgmail.com)**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

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Chemical Laboratory Manager



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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	2004/21/EC	Part 1-10
Toxic Element Analysis	BS EN 71-3:1995	P	-	Sb: 60 ppm As: 25 ppm Ba: 1000 ppm Cd: 75 ppm Cr: 60 ppm Pb: 90 ppm Hg: 60 ppm Se: 500 ppm	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 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 UKAS accreditation. Tests marked (\*) in this test report are not included in the UKAS accreditation schedule for this laboratory.



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Code	Test Method	Result	Requirements
<b>Azo Dye stuff</b>			
64 LFGB 82.02.2:2004			
Determination of Certain aromatic Amines derived from azo colorants followed by GC- MS Analysis			
<b>Part 1&amp;2&amp;3&amp;4&amp;5&amp;6&amp;7&amp;8&amp;9&amp;10</b>			
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	CAS NO
4-AMINOBIHENYL	92-67-1
BENZIDINE	92-87-5
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2
2-NAPHTHYLAMINE	91-59-8
*O-AMINOAZOTOLUENE	97-56-3
*2-AMINO-4-NITROTOLUENE	99-55-8
P-CHLOROANILINE	106-47-8
2,4-DIAMINOANISOLE	615-05-4
4,4'-DIAMINOBIHENYLMETHANE	101-77-9
3,3'-DICHLOROBENZIDINE	91-94-1
3,3'-DIMETHOXYBENZIDINE	119-90-4
3,3'-DIMETHYLBENZIDINE	119-93-7
3,3'-DIMETHYL-4,4' DIAMINOBIHENYLMETHANE	838-88-0
P-CRESIDINE	120-71-8
4,4'-METHYLENE-BIS-(2 CHLOROANILINE)	101-14-4
4,4'-OXYDIANILINE	101-80-4
4,4'-THIODIANILINE	139-65-1
O-TOLUIDINE	95-53-4
2,4-TOLUYLENDIAMINE	95-80-7
2,4,5-TRIMETHYLANILINE	137-17-7
O-ANISIDINE	90-04-0
**P-AMINOAZOBENZENE	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%



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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 1	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 2	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 3	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 4	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.

			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.

		RESULT IN ppm	PASS/FAIL	Requirement (ppm)
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	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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**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 %)



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) =mg / kg  
 Detection Limit =10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT

(Total Uncertainty=±5 %)





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))
	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 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))
	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 %)



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 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))
	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 %)



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 6	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 %)



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))
	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 %)

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) =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 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) =mg / kg  
 Detection Limit =10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT

(Total Uncertainty=±5 %)



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) =mg / kg  
 Detection Limit =10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT

(Total Uncertainty=±5 %)

## END OF TEST REPORT ##

