

Report No.: 083519-2-a		Receipt date: September 18th de 2019 Test end date: October 2nd of 2019 Report emission date: November 5th of 2019
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Client:	INDUSTRIAS JUNO, S.A.	
Contact person:	Luis Gil	
Address:	B.º Saconi, 10	
Town:	48950 ERANDIO (Bizkaia)	

Volatile organic compound (VOC) content

Directive 2004/42/EC of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, defines VOCs as: "any organic compound having an initial boiling point of less than or equal to 250 °C at a standard pressure of 101,3 kPa".

Based on this definition, "[p-tolyloxy)methyl]oxirane (cas 2210-79-9)" should not be considered as VOC but as COSV because its boiling point is 260°C according to ECHA. Considering this definition, the corrected results are:

REFERENCE ⁽¹⁾	STANDARD	TITLE	Total COV (g/l) ⁽²⁾	Total COSVs (g/l) ⁽²⁾
Dynapok agua suelos 2/C	UNE-EN ISO 11890-2:2013	Paints and varnishes - Determination of volatile organic compound (VOC) content - Part 2: Gas-chromatographic method	2.5	25.9

⁽²⁾ A detailed analysis of the sample is outlined on the following page.

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COV Quantitative analysis (TR <nC14)		
	Test 1 (g/l)	Test 2 (g/l)
2-Butanona (MEK)	<0.1	<0.1
Ethyl Acetate	<0.1	<0.1
Isobutanol	<0.1	<0.1
n-Butanol	<0.1	<0.1
1-Methoxy-2-propanol	<0.1	<0.1
2-Pentanone	<0.1	<0.1
n-Propyl acetate	<0.1	<0.1
4-Metil-2-pentanona (MIBK)	<0.1	<0.1
Toluene	0.1	0.1
Ethylene glycol	2.4	2.4
n-Butyl acetate	<0.1	<0.1
Ethylbenzene	<0.1	<0.1
m,p-Xylenes	<0.1	<0.1
1-Methoxy-2-propylacetate	<0.1	<0.1
o-Xylene	<0.1	<0.1
Ethanol, 2-butoxy-	<0.1	<0.1
2-Propanol, 1-butoxy-	<0.1	<0.1
2-Methyl-2,4-pentandiol	<0.1	<0.1
1-Hexanol, 2-ethyl-	<0.1	<0.1
Diethylene glycol diethyl ether	<0.1	<0.1
2-Butoxyethyl acetate	<0.1	<0.1
Diethylene glycol monobutyl ether	<0.1	<0.1
Other VOCs Semi-Quantitative Analysis (TR < nC14)		
OXIRANE, [(2-METHYLPHENOXY)METHYL]-*	20.4	19.7
Total COV (TR < nC14)		
	Test 1 (g/l)	Test 2 (g/l)
Total COVs (Method 2):	22.9	22.2
COSV Semi-Quantitative Analysis (n-C14 < TR < nC25)		
	Test 1 (g/l)	Test 2 (g/l)
2,4,7,9-Tetramethyl-5-decyn-4,7-diol	1.4	1.6
1,3-BIS(4-METHYLPHENOXY)-2-PROPANOL	1.6	2.1
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-	3.0	2.0
Total COSV (Method 2):	6.0	5.7

* Corresponding to [(p-tolyloxy)methyl]oxirane (cas 2210-79-9). As defined in Directive 2004/42/EC, is considered as COVs instead of as VOC.