eurofins | Expert Services

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Teknos Oy
P.O. BOX 107
FI-00371 Helsinki
FINLAND

Eurofins Expert Services Oy
P.O. Box 47
FI-02151 ESPOO
FINLAND

CustomerSupport@eurofins.fi
www.eurofins.fi/expertservices

VOC/SVOC CONTENT

1 Sample Information

Sample name	FUTURA AQUA 5 Base 1
Batch no.	364991
Production date	23.3.2022
Product type	Waterborne interior topcoats
Sample reception	2.5.2024

2 Results shortly

Parameter	Result	Measurement uncertainty
VOC content [g/L]	61	20 %
SVOC content [g/L]	2.7	20 %

Please see enclosure with detailed results.

Espoo, 31.5.2024

Aaro Tuisku
Expert

Distribution Customer

Eurofins Expert Services Oy
Kivimiehentie 4
02150 Espoo
FINLAND

Eurofins Product Testing Denmark A/S
Smedeskovvej 38
8464 Galten
Denmark

CustomerSupport@eurofins.com
www.eurofins.com

TEST REPORT
VOC/SVOC Content

30 May 2024

1 Sample Information

Sample name	FUTURA AQUA 5 Base 1
Sample no.	392-2024-00217501
Stated production date	23/03/2022
Batch No.	364991
Sample reception	06/05/2024

Janne Rothmann Norup
Analytical Service Manager

2 Applied Test Methods

2.1 Specific Laboratory Sampling and Analyses

Test	Regulation, protocol or standard	Version	Internal SOP	Limit of detection	Uncertainty Um¤
				[mg/kg]	%
VOC/SVOC *	ISO 11890-2	2020	71 M 546002	50	20
Density *	Internal method	-	71 M 543130	-	10

3 Results

3.1 Results Used in Calculation

	Remarks on the test results	Results	Unit
Density *	Tested by the lab	1.22	g/mL

3.2 Total VOC Content

	CAS No.	Results	Unit
Unidentified *	-	11	g/L
Unidentified *	-	0.97	g/L
1,2-Propandiol (Propylene glycol)	57-55-6	43	g/L
Unidentified *	-	0.089	g/L
Unidentified *	-	0.091	g/L
Unidentified *	-	0.071	g/L
Dipropylene glycolmethylether *	20324-32-7	1.6	g/L
Unidentified *	-	1.3	g/L
Unidentified *	-	0.085	g/L
Unidentified *	-	0.071	g/L
Unidentified *	-	0.15	g/L
Unidentified *	-	0.29	g/L
Unidentified *	-	0.10	g/L
Unidentified *	-	0.25	g/L
Unidentified *	-	0.32	g/L
Unidentified *	-	0.55	g/L

	CAS No.	Results	Unit
Unidentified *	-	0.35	g/L
Unidentified *	-	0.31	g/L
VOC content	-	61	g/L

3.3 Total SVOC Content

	CAS No.	Results	Unit
Unidentified *	-	0.10	g/L
Unidentified *	-	0.069	g/L
Isophorone diisocyanate	4098-71-9	0.92	g/L
Unidentified *	-	0.14	g/L
Unidentified *	-	0.22	g/L
Unidentified *	-	0.28	g/L
Unidentified *	-	0.083	g/L
Unidentified *	-	0.15	g/L
Unidentified *	-	0.29	g/L
Unidentified *	-	0.45	g/L
SVOC content	-	2.7	g/L

4 Appendices

4.1 How to Understand the Results

4.1.1 Acronyms Used in the Report

<	Means less than
>	Means bigger than
*	Not a part of our accreditation
¤	Please see section regarding uncertainty in the Appendices
1	Analysed by another Eurofins laboratory

4.2 Description of VOC/SVOC Content Test

4.2.1 Testing of VOC/SVOC (ISO 11890-2)

Volatile Organic Compounds (VOC) include all organic compounds with an initial boiling point less than or equal to 250 °C measured at standard pressure of 101.3 kPa.
Semi-Volatile Organic Compounds (SVOC) include all organic compounds with an inital boiling point greater than 250 °C and less than 370 °C measured at standard pressure of 101.3 kPa.
The determination is performed in conformity with ISO 11890-2 and the commission decision 2014/312/EU of 28 May 2014 establishing the ecological criteria for the award of the EU Ecolabel for indoor and outdoor paints and varnishes, with its most recent amendments and its most recent User Manual.
Analyses are performed with a slightly polar gas chromatographic column (HP-5). Mass spectrometric detection is used for identification and flame ionization detector is used for quantification. Identified compounds are quantified with their authentic response factors, or with their relative response factors using 1,2-diethoxyethane as internal standard. Remaining unknown peaks are quantified in diethyl adipate equivalents.

4.2.2 Testing of Density

The density was calculated using gravimetric and volumetric determination. The result is the average of three determinations.

4.3 Uncertainty of the Test Method

Um(%): The expanded uncertainty Um is equal to 2 x RSD%.

4.4 Version History

Report date	Report number	Modification
30/05/2024	392-2024-00217501_XI_EN	Current version