

## BRACHI TESTING SERVICES

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srl unipersonale

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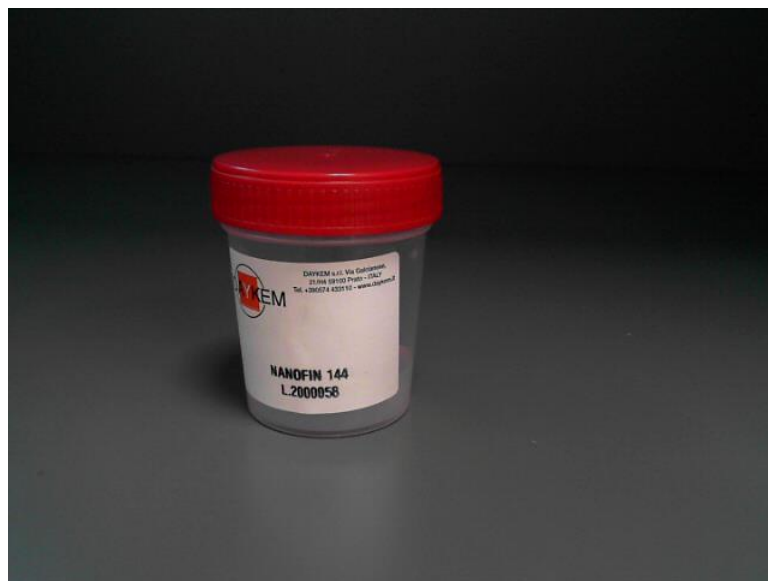
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<b>RAPPORTO DI PROVA N°:</b> Test Report N°:	004906/20
<b>DITTA PRESENTATRICE:</b> Company:	DAYKEM SRL - VIA GALCIANESE, 21/H-4 - PRATO (PO)
<b>CAMPIONE:</b> Sample:	Liquid named STYLE NANOFIN144 L.2000058.
<b>CAMPIONAMENTO:</b> Sampling:	Made by the customer
<b>DATA RICEVIMENTO:</b> Date of Receipt:	February 26, 2020
<b>DATA ESECUZIONE PROVE:</b> Test execution date:	From the date of receipt to the date of issue
<b>OGGETTO:</b> Subject:	Various Analysis

### RISULTATI DI LABORATORIO

#### TEST RESULTS

### ZDHC MRSL Conformance Level 1 version 1.1



Remarks: The sample is conforms to the ZDHC MRSL version 1.1

I risultati enunciati si riferiscono unicamente ai campioni ricevuti e non alla partita che gli stessi rappresentano.

I campioni analizzati si conservano per tre mesi.

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The analysed samples will be kept for three months.

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**IL DIRETTORE**  
**P.I. Primo Brachi**



INTER  
2014  
094  
WOOLLABS  
AIR-FLOW  
MICROPROJECTION  
for WOOL TOPS only



## ZDHC MRSL Conformance Level 1

Certification Expiry date: 18/06/2021

Application or use of the chemical formulations: 1.4.5.3-Softening agents

Concentration of the key base ingredient: CAS N. 106214-84-0  $\geq 10\%$  -  $<12,5\%$   
CAS N. 68439-46-3  $\geq 3\%$  -  $<5\%$   
CAS N. 69011-36-5  $\geq 3\%$  -  $<5\%$   
CAS N. 160875-66-1  $\geq 1\%$  -  $<3\%$

### CHAPTER 1: MRSL for Textiles and Coated textiles processing

CAS No.	Substance	Group B: Chemical Supplier Commercial Formulation Limit	Conforms / NOT conform
<b>Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers</b>			
104-40-5 11066-49-2 25154-52-3 84852-15-3	Nonylphenol (NP), mixed isomers	250 ppm	Conform
140-66-9 1806-26-4 27193-28-8	Octylphenol (OP), mixed isomers	250 ppm	Conform
9002-93-1 9036-19-5 68987-90-6	Octylphenol ethoxylates (OPEO)	500 ppm	Conform
9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	Nonylphenol ethoxylates (NPEO)	500 ppm	Conform
<b>Glycols</b>			
111-96-6	Bis(2-methoxyethyl)-ether	50 ppm	Conform
110-80-5	2-ethoxyethanol	50 ppm	Conform
111-15-9	2-ethoxyethyl acetate	50 ppm	Conform
110-71-4	Ethylene glycol dimethyl ether	50 ppm	Conform
109-86-4	2-methoxyethanol	50 ppm	Conform
110-49-6	2-methoxyethylacetate	50 ppm	Conform
70657-70-4	2-methoxypropylacetate	50 ppm	Conform
112-49-2	Triethylene glycol dimethyl ether	50 ppm	Conform

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Organotin Compounds			
Multiple	Dibutyltin (DBT)	20 ppm	Conform
Multiple	Mono-, di- and tri-methyltin derivatives	5 ppm	Conform
Multiple	Mono-, di- and tri-butyltin derivatives	5 ppm	Conform
Multiple	Mono-, di- and tri-phenyltin derivatives	5 ppm	Conform
Multiple	Mono-, di- and tri-octyltin derivatives	5 ppm	Conform

### \*DETERMINATION OF ALKYLPHENOLS AND ALKYLPHENOL POLYETHOXYLATES IN TEXTILE DYEING AND FINISHING AUXILIARIES – LC/MS METHOD

Process:

Results:

#### APEOs

Test Method: GB/T 23972:2009, ISO 18218-1:2015

Extraction with methanol for 60 min at 70°C in ultrasonic bath, filtration and liquid chromatography determination with mass detector (LC/MS/MS)

Compounds	CAS	mg/kg
Nonylphenol polyethoxylates (NPEO 3-18)	68412-54-4,	N.D.
	9016-45-9,	
	127087-87-0,	
	37205-87-1,	
Octylphenol polyethoxylates (OPEO 3-16)	26027-38-3	N.D.
	9002-93-1,	
	68987-90-6,	
	9036-19-5	

Note: N.D = not determinable (< LOD)

Detection Limit (LOD): 15 mg/kg

Limit of Quantification (LOQ): 150 mg/kg

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### APs

Test Method: GB/T 23972:2009

Extraction with methanol in ultrasonic bath, filtration and liquid chromatography determination with mass detector (LC/MS/MS).

Compounds	CAS	mg/kg
Nonylphenols (NP)	84852-15-3, 25154-52-3, 104-40-5, 11066-49-2	N.D.
Octylphenols (OP)	140-66-9, 1806-26-4, 27193-28-8	N.D.

#### Note:

N.D = not detectable (< LOD)

Detection Limit (LOD): 10 mg/kg

Limit of Quantification (LOQ): 100 mg/kg

### \*DETERMINATION OF GLYCOLS

Process :

Test method : Internal Method  
extraction and LC/MS analysis

#### Results:

ANALYTE	CAS	RESULTS (mg/kg)
Bis(2-methoxyethyl)ether/bis(2-metossietil etere)	111-96-6	N.D
2-ethoxyethanol/2-etossietanolo	110-80-5	N.D
2-ethoxyethyl acetate/2-etossietil acetato	111-15-9	N.D
Ethyleneglycoldimethyl ether/etilene glicol dimetil etere	110-71-4	N.D
2-methoxy ethanol/2-metossietanolo	109-86-4	N.D
2-methoxyethyl acetate/2-metossietilacetato	110-49-6	N.D
2-methoxypropyl acetate/2-metossipropil acetato	70657-70-4	N.D
Triethyleneglycol dimethyl ether/trietilene glicol dimetil etere	112-49-2	N.D

#### Note:

N.D = not detectable (< LOD)

Detection Limit (LOD): 1,0 mg/kg

Limit of Quantification (LOQ): 10 mg/kg

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## \*ORGANOTIN COMPOUNDS DETERMINATION

Method: Internal Method

Process: Extraction with methanol/ethanol (80/20) for 1h in ultrasonic bath with tropolone solution, derivatization with sodium tetraethyl borate, liquid-liquid extraction with iso-octane and gaschromatographic determination with mass detector (GC-MS).

Results :  
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ANALYTE	CAS	RESULTS	(mg/kg)
MBT (MonoButylTin)	1118-64-3		N.D.
MOT (MonoOctylTin)	3091-25-6		N.D.
DBT (DiButylTin)	683-18-1		N.D.
DOT (DiOctylTin)	3542-36-7		N.D.
TBT (TriButylTin)	1461-22-9		N.D.
TPhT (TriPhenylTin)	639-58-7		N.D.
TCyT (TriCyclohexylTin)	3091-32-5		N.D.
TTBT (TetraButylTin)	1461-25-2		N.D.

Note:  
N.D = not detectable (< LOD)  
Detection Limit (LOD): 0,1 mg/kg  
Limit of Quantification (LOQ): 1,0 mg/kg

Prato, 18 marzo 2020

P.I. Primo Brachi  
Direttore



END OF TEST REPORT

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