



BRACHI TESTING SERVICES

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srl unipersonale

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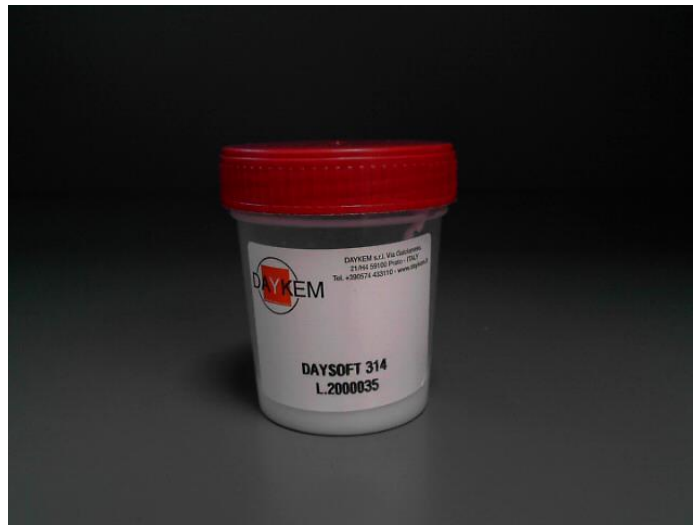
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RAPPORTO DI PROVA N°: Test Report N°:	004907/20
DITTA PRESENTATRICE: Company:	DAYKEM SRL - VIA GALCIANESE, 21/H-4 - PRATO (PO)
CAMPIONE: Sample:	Liquid named STYLE DAYSOFT 314 L.2000035.
CAMPIONAMENTO: Sampling:	Made by the customer
DATA RICEVIMENTO: Date of Receipt:	February 26, 2020
DATA ESECUZIONE PROVE: Test execution date:	From the date of receipt to the date of issue
OGGETTO: 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

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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: 18/03/2021

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

Concentration of the key base ingredient: CAS N.69011-36-5 Alcool C-13 Etossilato
≥ 1% - < 3%

CHAPTER 1: MRSL for Textiles and Coated textiles processing

CAS No.	Substance	Group B: Chemical Supplier Commercial Formulation Limit	Conforms / NOT conform
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers			
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
Glycols			
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
Organotin Compounds			



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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,	
	26027-38-3	
Octylphenol polyethoxylates (OPEO 3-16)	9002-93-1,	N.D.
	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 gascromatographic determination with mass detector (GC-MS).

Results :

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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