



# KEOFIN FFN

Water repellent finishing agent free from  
fluorine derivatives

# Characteristics

► Appearance	White emulsion
► Chemical Composition	Acrylic copolymer
► Dry %	32 – 36
► PH	3,5 – 5,5
► Ionic charge	non ionic / slightly cationic
► Solubility in water	dispersible
► Shelf life	6 months

# APPLICATION TEST RESULTS

- ▶ Spray test on fabric as is and after dry or wet cleaning
- ▶ Description of washing :
  - Washing at home carried out in washing machine with :  
Liquid Dixan  
Delicate cycle at 30 C
  - Dry cleaning carried out in professional laundry

# RESULTS : Spray test – laboratory trials

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KEOFIN FFN 100 g/l

Cotton spray test		
As is	100	
	Domes	Dry
1 <sup>st</sup> wash	100	100
2 <sup>nd</sup> wash	100	100
3 <sup>rd</sup> wash	100	100
4 <sup>th</sup> wash	100	100
5 <sup>th</sup> wash	100	100

Polyamide spray test		
As is	100	
	Domes	Dry
1 <sup>st</sup> wash	100	100
2 <sup>nd</sup> wash	100	100
3 <sup>rd</sup> wash	100	90
4 <sup>th</sup> wash	100	90
5 <sup>th</sup> wash	100	90

Polyester spray test		
As is	100	
	Domes	Dry
1 <sup>st</sup> wash	100	100
2 <sup>nd</sup> wash	100	100
3 <sup>rd</sup> wash	100	100
4 <sup>th</sup> wash	100	100
5 <sup>th</sup> wash	95	95

KEOFIN FFN 80 g/l

Cotton spray test		
As is	100	
	Domes	Dry
1 <sup>st</sup> wash	100	100
2 <sup>nd</sup> wash	100	100
3 <sup>rd</sup> wash	90	90
4 <sup>th</sup> wash	90	80
5 <sup>th</sup> wash	90	80

Polyamide spray test		
As is	100	
	Domes	Dry
1 <sup>st</sup> wash	100	100
2 <sup>nd</sup> wash	100	90
3 <sup>rd</sup> wash	100	90
4 <sup>th</sup> wash	100	90
5 <sup>th</sup> wash	100	80

Polyester spray test		
As is	100	
	Domes	Dry
1 <sup>st</sup> wash	100	100
2 <sup>nd</sup> wash	100	100
3 <sup>rd</sup> wash	100	90
4 <sup>th</sup> wash	100	90
5 <sup>th</sup> wash	95	90

# RESULTS : Spray test - Laboratory Trials

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100 g/l KEOFIN FFN  
CASHMERE / SILK

Immediate spray test	100	100
1 domestic wash (*)	100	100
3 <sup>rd</sup> domestic wash	100	95
5 <sup>th</sup> domestic wash	100	90
1 <sup>st</sup> dry clean (**)	-	-
3 <sup>rd</sup> dry clean	100	95
5 <sup>th</sup> dry clean	80	60

100 g/l KEOFIN FFN SU  
WOOL

	Lana clorata	Non Clorata
Immediate spray test	100	100
1 domestic wash (*)	100	100
3 <sup>rd</sup> domestic wash	100	100
5 <sup>th</sup> domestic wash	100	100
1 <sup>st</sup> dry clean (**)	-	-
3 <sup>rd</sup> dry clean	100	100
5 <sup>th</sup> dry clean	80	95

# LABELLING

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:            Warning

# COMPOSITION

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

Contains:

Identification

**x = Conc. %**

**Classification 1272/2008 (CLP)**

**Alkyl ethyl acrylate, copolymer**

CAS 103925-04-8  $25 \leq x < 35$

EC

INDEX

Reg. no. *Esente Art 2 (polimero)*

**Polyoxyethylene lauryl ether**

CAS 9002-92-0  $1 \leq x < 2$

EC 500-002-6

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**Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335**

**Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315**

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## Field of Application

The treatment with KEOFIN FFN gives the fabric excellent water-repellent properties even if it doesn't contain fluorine derivatives.

KEOFIN FFN, if correctly applied, is permanent on fabric and resists domestic washing at 40 C and dry cleaning at 30 C.

KEOFIN FFN is free from formaldehyde and APEO.

## Instructions for use

KEOFIN FFN is generally applied by pad batch.

Suggested dosage:

50 – 100 g/l                      KEOFIN FFN

pH between 4 and 5

Pick up : 50 – 70%

If the product absorption needs to be increased, the use of a wetting agent is recommended.

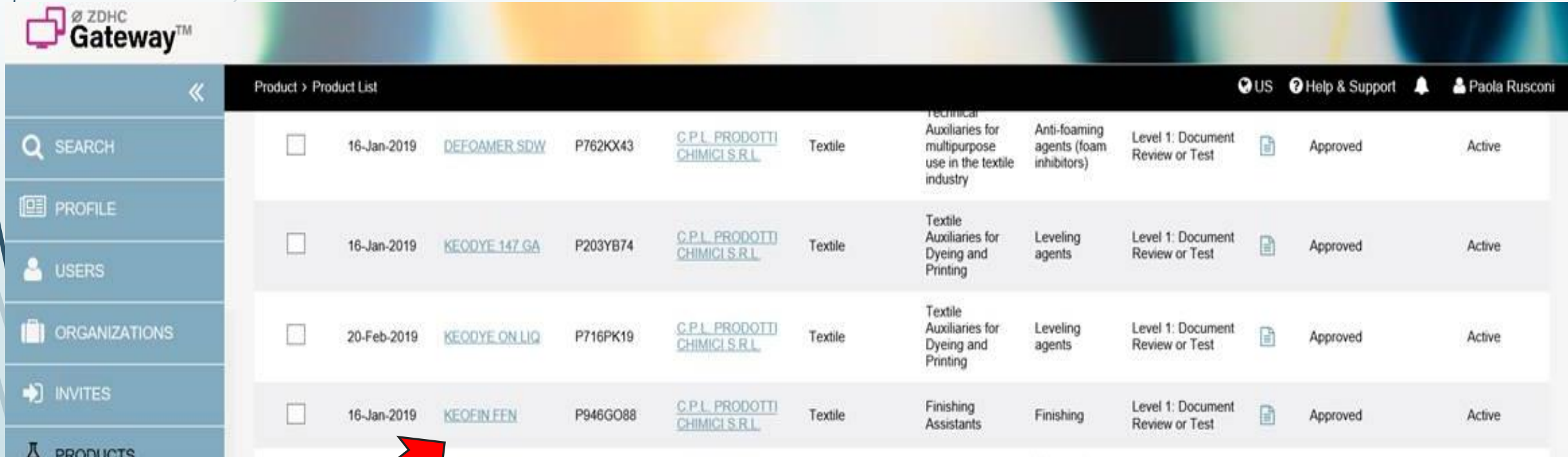
KEOLAN 63H      0.5 – 1.5 g/l

Drying and polymerization at 140 – 150 C for 90-180 seconds.



# KEOFIN FFN is compliant to MRSL ZDHC v1.1


- Included in Gateway at Level 1



The screenshot displays the ZDHC Gateway interface. The left sidebar contains navigation options: SEARCH, PROFILE, USERS, ORGANIZATIONS, INVITES, and PRODUCTS. The main content area shows a 'Product > Product List' table with the following data:


Checkbox	Date	Product Name	SKU	Manufacturer	Category	Description	Sub-category	Compliance Level	Document Icon	Status	Activity
<input type="checkbox"/>	16-Jan-2019	<a href="#">DEFOAMER SDW</a>	P762KX43	<a href="#">C.P.L. PRODOTTI CHIMICI S.R.L.</a>	Textile	Technical Auxiliaries for multipurpose use in the textile industry	Anti-foaming agents (foam inhibitors)	Level 1: Document Review or Test		Approved	Active
<input type="checkbox"/>	16-Jan-2019	<a href="#">KEODYE 147 GA</a>	P203YB74	<a href="#">C.P.L. PRODOTTI CHIMICI S.R.L.</a>	Textile	Textile Auxiliaries for Dyeing and Printing	Leveling agents	Level 1: Document Review or Test		Approved	Active
<input type="checkbox"/>	20-Feb-2019	<a href="#">KEODYE ON LIQ</a>	P716PK19	<a href="#">C.P.L. PRODOTTI CHIMICI S.R.L.</a>	Textile	Textile Auxiliaries for Dyeing and Printing	Leveling agents	Level 1: Document Review or Test		Approved	Active
<input type="checkbox"/>	16-Jan-2019	<a href="#">KEOFIN FFN</a>	P946GO88	<a href="#">C.P.L. PRODOTTI CHIMICI S.R.L.</a>	Textile	Finishing Assistants	Finishing	Level 1: Document Review or Test		Approved	Active

# KEOFIN FFN is formaldehyde-free: TEST report – LOT 800469

<p>C002 - Tessili. Formaldeide libera e idrolizzata. Metodo per estrazione acquosa <i>Textiles. Free and hydrolized formaldehyde. Water extraction method</i></p>	<p>UNI EN ISO 14184-1:2011</p>	<p>Campione ricevuto Sigillato in busta di polietilene <i>Sample received Sealed in polyethylene bag</i> Campione conservato in laboratorio Sigillato in busta di polietilene <i>Sample stored in lab Sealed in polyethylene bag</i> Massa del campione <i>Specimen weight</i> (2.50±0.05) g Intervallo curva di taratura <i>Calibration curve range</i> (0.02-0.6) mg/l Numero delle provette <i>Number of specimens</i> 2 <b>Limite di quantificazione</b> <i>Quantification limit</i> <b>5 mg/kg</b></p>		<p>Formaldeide <i>Formaldehyde</i>      mg/kg      &lt;5</p>
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### Note - Notes

C002  
Si rileva la presenza di formaldeide a < 2 mg/kg.  
*The presence of formaldehyde was detected at < 2 mg/kg.*



# KEOFIN FFN is GOTS CERTIFIED

## ANNEX

**Approved chemical substances and preparations for production and ennobling of organic textile products according with the requirements of Global Organic Textile Standard (GOTS) – 5.0: 2017**

### **Ausiliari tessili – *Textile auxiliaries***

<i>Commercial name</i>	Type/Utilisation [IT]	Type/Utilisation [EN]	Date of approval	Date of MSDS	<i>Comments / restrictions</i>
ADDUS MGM	Imbibente	Wetting agent	6-dic-18	nov-18	
ANTIBASTONANTE FHB	Antibastonante	Antifelting	14-mag-18	mar-18	
ANTIRIDUCENTE MN800	Antiriducente	Antireducing agent	6-dic-18	nov-18	
DEFOAMER SDW	Antischiuma	Antifoaming agent	6-dic-18	gen-18	
KEODYE 147 GA	Ausiliario per la tintura	Dyeing auxiliary	6-dic-18	nov-18	
KEODYE ON LIQ	Disperdente	Dispersing agent	6-dic-18	nov-18	
KEOFIN FFN	Idrorepellente	Water repellent	6-dic-18	nov-18	