



## Surfactants

Product Information

# dermofeel® PP

Product features:

- Natural O/W-emulsifier
- PEG-free
- 100% plant material
- From sustainable resources
- Skin friendly
- Ecocert listed

## dermofeel® PP

**dermofeel®  
surfactants are 100 %  
naturally derived and  
PEG-free.**

**dermofeel® PP is a  
versatile, nonionic  
natural O/W emulsifier.**

**An easy application is  
achieved with  
dermofeel® PP**

### The product line

**dermofeel®** products comprise a carefully chosen line of emulsifiers, functional oils and antioxidants for cosmetic and dermatological applications. The well balanced product profiles are tailored to meet as many requirements of modern cosmetic concepts as possible. Functionality and technical performance are the main focus for the development of the **dermofeel®** product line. Wherever possible we choose raw materials from sustainable sources in order to comply with this important trend for an increasing number of consumer products.

### dermofeel® PP

The product consists of a polyglyceryl ester formed by an average of 3 glycerol units and palmitic acid. The origin of both components lies in renewable plant sources. The manufacturing process uses environmentally friendly condensation reactions and does not involve any kind of alkoxylated species. Therefore **dermofeel® PP** is PEG and PPG free and consists of a favourable distribution of different chain lengths in the polyglyceryl part. **dermofeel® PP** is a widely used, versatile O/W emulsifier for application in many product concepts with different textures.

### Application

Ecocert listed **dermofeel® PP** can be employed in various cosmetic products. It is used as a O/W emulsifier for many cosmetic concepts, including many emulsions or self-emulsifying bath oils. Due to its hydrophilic structure it has a good water binding capacity and leaves a pleasant skin feel. The excellent skin and eye compatibility grants applicability in virtually all cosmetic products.

**dermofeel® PP** is a pure ingredient with 100 % active ingredient content of Polyglyceryl-3 Palmitate. It can be employed directly, by melting it in the oil phase. As with many non-ionic emulsifier also with **dermofeel® PP** it may be beneficial to use an anionic co-emulsifier, e.g. **dermofeel® SL**

### dermofeel® PP

- Is an emulsifier from naturally occurring materials
- Is skin and eye friendly
- Is PEG and PPG free

Characteristics of <b>dermofeel® PP</b>	
Appearance	paste
INCI	Polyglyceryl-3 Palmitate
HLB	Approx. 9
Recommended dosage	1-3%
Natural Cosmetics use	Yes (e.g. Ecocert, BDIH, NaTrue)

## dermofeel® PP

### Natural Soothing Bath Oil

52-03-107

Claims: Preservative free  
Refatting  
PEG-free  
No residues in the bathtub



Phase	Ingredient	INCI	Supplier	%
A	dermofeel® PP	Polyglyceryl-3 Palmitate	Dr. Straetmans	10.00
	dermosoft® GMCY	Glyceryl Caprylate	Dr. Straetmans	10.00
	Cupuacu Butter	Theobroma Grandiflorum Seed Butter	Laboratoires Expanscience	5.00
	Sunflower Seed Oil	Helianthus Annuus (Sunflower) Seed Oil		15.00
B	Sunflower Seed Oil	Helianthus Annuus (Sunflower) Seed Oil		57.50
	dermofeel® Toco 70 non-GMO	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	Dr. Straetmans	1.00
	Frag. Aprikose-Mandel Natura Öko 215-530	Parfum, Geraniol, Linalool, Limonen	Düllberg Konzentra	1.50
				100.00

#### Manufacturing Procedure:

1. Melt phase A at approx. 60°C.
2. Add ingredients of phase B one after the other until a clear solution is obtained.

#### Specification Values:

Appearance: Clear yellow liquid.

#### Stability:

More than 3 months stable at 20°C, 40°C, and 4°C.

#### Disclaimer:

The information contained herein is meant to demonstrate how our products can be used. The given data are suggestions without any guarantee aimed to support customers' development. As production conditions at our customers' facilities are beyond our control we refuse to accept any liability involved in the use of our products. Please observe possible third party patent rights.

## dermofeel® PP

Dozens of formulation examples are compiled in our Formulary

Many formulations with our products are available for both, traditional and natural cosmetics concepts. Please contact us to receive your copy of our new Formulary Edition 2009 or Formulary NATURE Edition 2009, respectively.

### Toxicology

**dermofeel® PP** is not irritating, not sensitizing and does not contain genetically modified material, dioxine, phthalates, BSE-related material or CMR-material. Polyglyceryl esters are common ingredients in the food industry and have practically no toxic effects even when administered orally as high as 8 % with the food.

### Packing units

**dermofeel®** is available in 10 kg pails.

### Environmental Information

**dermofeel® PP** is produced in an environmentally and toxicologically unobjectionable process by condensation of plant derived glycerol and subsequent esterification with palmitic acid. The biodegradability of **dermofeel® PP** is very good. **dermofeel® PP** has not been tested on animals.

### Handling and storage

In closed original containers **dermofeel® PP** can be stored for at least 3 years. **dermofeel® PP** does not need to be preserved.

### Literature

- 1 Lower E, The Cosmetic Advantages of Polyglycerols, *Manufacturing Chemist*, 1997, 68 (11), 30-32.
- 2 Ishitobi M, Kunieda H, Effect of chain length distribution on the phase behaviour of polyglycerol fatty acid ester in water, *Colloid Polym Sci*, 2000;278:899-904
- 3 Kato T et al., Surfactant properties of purified polyglycerol monolaurates, *Journal of Surfactants and Detergents*, 2006; 6 (4): 331-337
- 4 Bodansky M et al., Utilization of polyglycerol esters, *Biochem J*. 1938, 32(11): 1938-42
- 5 Babayan VK et al., Nutritional studies of polyglycerol esters, *Journal of the American Oil Chemists' Society*. 1964, 41(6): 434-37

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