



# Product Information

## Antioxidants and Actives:

### **dermofeel® AP**

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Product features:

- Stable vitamin C ester
- Antioxidant additive
- Anti-aging active
- Skin whitening
- 100% naturally derived

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# dermofeel® AP

## The product: dermofeel® AP

This ester of ascorbic acid and palmitic acid provides a stable and oil soluble form of the potent antioxidant and anti-aging active vitamin C. Its lipophilic character enhances the penetration into the skin where the ascorbic acid unfolds its physiologic effect. The antioxidant properties help to protect skin cells and the extracellular matrix. It also stimulates the collagen synthesis, which has a wrinkle reducing effect and it can be applied in skin lightening products because of its melanine-synthesis-inhibiting function.

**dermofeel® AP** elongates the efficacy and stability of the antioxidant system in the formulation. (Source: GDCh, see below).

### Characteristics

- INCI: *Ascorbyl Palmitate*
- Appearance: almost colorless powder
- 100% naturally derived; already ECOCERT/COSMOS approved (please contact us for further information)
- To protect the life of your cosmetic product, combine with **dermofeel® MT 70** non GMO (INCI: Tocopherol; Helianthus Annuus (Sunflower) Seed Oil)
- For synergistic efficacy as an active, combine with **dermofeel® E 74 A** non GMO (INCI: Tocopheryl Acetate; Helianthus Annuus (Sunflower) Seed Oil)
- Lipophilic
- Soluble in oil at higher temperatures
- Melting range: 107-117°C  
Note: Incorporation into emulsions at ~80°C possible, see below



### Dosage

Product Concept	Dosage
As product protection antioxidant	0.1 – 0.2 %
Skincare active	0.1 – 1.0 %

## How to work with dermofeel® AP

### Manufacturing procedure for emulsions, hot-hot process only (Laboratory scale)

1. Mix **dermofeel® AP** with oil phase and heat to ~80°C.
2. Combine the hot oil phase with the hot water phase and homogenize.  
Note: Although **dermofeel® AP** will remain solid in the oil at this temperature, homogenization will fully incorporate the material into the emulsion.
3. Proceed as usual.

### Formulation advice

Known method to solubilize in pure oil at ~100°C	Add emulsifier (e.g. 0.5% Lecithin) to solubilize 0.1% <b>dermofeel® AP</b> in pure sunflower oil. Will not remain clear.
Clear solubilisation in pure oil	No clear solution possible with any known solubilizing agent/emulsifier addition.

### Application Ideas

Perfectly suitable for anti-aging and antioxidant formulations.

*For more formulation ideas visit us at:*

*<https://www.dr-straetmans.de/en/products/>*

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## Trade Information

International Approval*	EU, USA, Australien, Canada, China, Japan, Korea.
Packaging	10 kg
Shelf life <i>(stored in original container)</i>	36 months

*\* Information is based on our best knowledge and reviewed for the most requested regions only. We recommend to check current regulatory requirements in individual target countries. For more information contact our regulatory department or refer to our regulatory status statement.*

## Literature

Gesellschaft deutscher Chemiker – Müller, Dr. R. Vitamin C. *Datenblätter zu Bewertung der Wirksamkeit von Wirkstoffen in kosmetischen Mitteln*, **2006**.

For further information, contact our Evonik Dr. Straetmans sales team:  
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or your local representative.

# Dr. Straetmans Worldwide Network

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<https://www.dr-straetmans.de/en/meta/contact/>



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