



Antioxidants

Product Information

dermofeel® PA-12

Product features



Chelator for Cosmetic Formulations

natural origin

biodegradable replacement for EDTA

colour stable powder material

dermofeel® PA-12

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® products cover many cosmetic functions

dermofeel® PA-12 is an effective natural chelator

dermofeel® PA-12

This natural chelating agent is effectively inactivating metal ions by forming by forming a complex between the chelator and the metal. Metals can enter a cosmetic formulation from the production equipment, as impurities from ingredients (e.g. extracts, pigments) and from process water. In a cosmetic formulation metals promote oxidation reactions, may cause discoloration and impair the foaming properties of surfactants.

dermofeel® PA-12 helps increasing the shelf life of cosmetic products and maintaining foaming properties

dermofeel® PA-12 is used in combination with typical antioxidants (tocopherol, ascorbyl palmitate) in all types of formulations that are susceptible for oxidation reactions to protect valuable ingredients like unsaturated oils or fragrance components. In rinse-off products **dermofeel® PA-12** is used to maintain the foaming properties in the presence of hard water or to prevent precipitation of insoluble salts of fatty acids in soaps.

dermofeel® PA-12 is environmental friendly

Less biodegradable chelators like EDTA are mobilizing toxic heavy metals from sediments in sewer systems or waterways. These metals can then re-enter the food chain and subsequently pose a risk for humans and their natural food source. As a natural ingredient **dermofeel® PA-12** is readily biodegradable. The environmental risk of mobilization of heavy metals is therefore minimized.

Application

dermofeel® PA-12 can be added to the water phase during every step in the production phase. Aqueous solutions of **dermofeel® PA-12** have a strong alkaline pH. It has to be noted that depending on the dosage the addition of **dermofeel® PA-12** can increase the pH of a formulation. This effect needs to be compensated when alkaline sensitive materials are applied in the water phase in the same step of the manufacturing process.

dermofeel® PA-12

Characteristics of dermofeel® PA-12	
Appearance	White powder
INCI	Sodium Phytate
Recommended dosage	0,05 - 0,2 %
Regulatory status	Registered in EU, US, Japan

Toxicology

dermofeel® PA-12 is not sensitizing and does not contain genetically modified material, dioxine, phthalates, BSE-related material or CMR-material. Sodium Phytate is made from Phytin, the main phosphate storage in plants. The corresponding Phytic acid is listed as food additive E391. **dermofeel® PA-12** is readily biodegradable, the aquatic toxicity is EC50 (48 h) > 100 mg/l (Daphnia magna).

Packing units

dermofeel® PA-12 is available in 5 and 20 kg cardboard drums.

Handling and storage

In closed original containers **dermofeel® PA-12** can be stored for 3 years in a dry place at ambient temperature. It does not need to be preserved. Due to its alkaline behaviour pure Sodium Phytate is a corrosive material. Suitable protection measures have to be ensured. The product is hygroscopic.

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