

MACKERNIUM[®] SFES

INCI Name: Sunflowerseedamidopropyl Ethyldimonium Ethosulfate
with PEG-9



CAS No.: Not on TSCA
EINECS: Not Listed

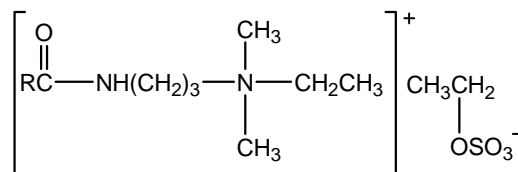
Product Description

Mackernium SFES is an effective, anionic compatible quaternary conditioner. It is based on a pure grade of sunflower oil and sold in an anhydrous, inert solvent. It is approximately 80% active and can be used in a variety of personal care products to add lubricity and antistatic properties. Clear, conditioning shampoos and body cleansers can be formulated with **Mackernium SFES**.

Specifications

| | |
|---------------------------------|--------------|
| Appearance @ 25 Deg C | Clear Liquid |
| Color Gardner | 5 Max |
| pH (10% Aqueous) | 6.0 – 7.5 |
| Free Amine | 1.0 Max |
| Moisture (Karl Fisher), % | 1.0 Max |
| Cationic Activity, % (MW = 520) | 70.0 – 75.0 |

Chemical Structure



Where RCO- represents the fatty acids derived from sunflower seed oil.

Typical Properties

| | |
|---------------------------|--------|
| Specific Gravity @ 25°C | 1.03 |
| Diluent | PEG-9 |
| Total Plate Count (CFU/g) | Absent |
| Gram Negative Bacteria | Absent |

Regulatory

Mackernium SFES

| | |
|-----------------------|---------------------|
| TSCA: Exempt | Japan: Not Listed |
| EU: Not Listed | Korea: Not Listed |
| Australia: Not Listed | New Zea: Not Listed |
| Canada: Not Listed | Philipp: Not Listed |
| China: Not Listed | Swiss: Unknown |

Mackernium SFES is not listed on EPA's TSCA open inventory and is thus to be used only for exempt application such as cosmetics in the U.S.

Principal Uses

| | |
|-----------------------|-----------|
| Hair Conditioners | 1% - 3% |
| Hand Cleansers | 0.5% - 1% |
| Body Washes | 1% - 2% |
| Conditioning Shampoos | 1% - 3% |
| Bar Soap | 1% - 3% |

Storage and Handling

Mackernium SFES should be stored in sealed containers below 30°C in a dry place out of direct sunlight. If material is exposed to cold, gently heat to 35°C and mix before use. Handle between 25°C – 35°C. Product can be heated higher if necessary; do not exceed 90°C.

Shelf Life

Shelf life 24 months from date of manufacture.

Packaging

Available in bulk, and 2200 pound totes.

WARNING

The information contained in this document is given in good faith and based on our current knowledge. It is only an indication and is in no way binding, notably as regards infringement of or prejudice to third parties through the use of our products.

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