

Epoxidized Fatty Acid Methyl Ester (EFAME) TDS

Re-Plastic Global

TECHNICAL DATA SHEET (TDS)

Epoxidized Fatty Acid Methyl Ester (EFAME)

CAS No.: 6084-76-0

1. Product Introduction

Epoxidized Fatty Acid Methyl Ester (EFAME) is a bio-based, environmentally friendly plasticizer widely used in PVC processing. It is derived from natural fatty acids and provides excellent flexibility, low volatility, and good thermal stability.

It is mainly used in the production of flexible PVC products and can partially or fully replace traditional phthalate plasticizers in various applications.

EFAME plasticized PVC products are widely used in:

- Electric cables and wires
 - Soft PVC films and sheets
 - Artificial leather
 - Packaging materials
 - Flooring materials
 - Eco-friendly PVC compounds
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2. Product Specification

Item	Index
Appearance	Light yellow transparent liquid
Epoxy Value	4.5 – 6.5 %
Acid Value	≤ 2.0 mgKOH/g
Iodine Value	≤ 5.0 gI ₂ /100g
Color (Gardner)	≤ 3
Density (20°C), g/cm ³	0.92 – 0.95
Viscosity (25°C), mPa·s	25 – 60
Moisture, %	≤ 0.20
Flash Point, °C	≥ 180

3. Packaging

- 200 kg steel drum: 16 MTS / 20GP (without pallet)
- 1000 kg IBC drum: 20 MTS / 20GP
- Flexitank: 23 MTS / 20GP

4. Storage & Handling

Store the product in a cool, dry, and well-ventilated place.

Avoid direct sunlight, rain exposure, and keep away from heat and strong oxidizing agents.

The product is non-toxic under normal handling conditions and is considered an eco-friendly plasticizer.

5. Manufacturer / Supplier Information

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6. Disclaimer

The information provided in this Technical Data Sheet is based on our current knowledge and experience. It is intended to describe the product for general guidance only and does not constitute a guarantee of specific properties.