

TECHNICAL DATA SHEET

NATURALUXE™ MFF

Biodegradable multi-functional film former

GENERAL INFORMATION

NATURALUXE™ MFF is a biodegradable (non-persistent), 80% natural polyester-based film former for O/W sunscreen emulsions providing very water resistant performance (> 50% SPF retention after 80 min water immersion) as demonstrated by in-vitro SPF and water resistance testing.

NATURALUXE™ MFF is a high performing material. It is 100% active, compatible with ethanol and comes in an easy to handle liquid format. The extremely pleasing sensory combined with low odour and no colour impact to the final formulation completes the value proposition.

INCI NAME

Lauryl/Isooctyl/Octyldodecyl/Dipropylene Glycol Citrate Copolymer

CHEMICAL & PHYSICAL PROPERTIES

Colour / Form	Viscous yellow-orange liquid
Viscosity (cP @ 25°C)	8,000 – 18,000
Acid Value	24 - 29
Gardner Colour	9 - 11
IR Spectrum	PASS

These are typical properties not to be used for specification purposes.

KEY PROPERTIES

- Polyester-based film former optimized for O/W systems
- Approximately 80% natural
- Biodegradable and non-persistent alternative to conventional synthetic, polymeric film formers,
- Alternative to Acrylates/Octylacrylamide Copolymer in ethanol systems
- 100% active matter
- Easy to handle format
- No colour impact to final formulations
- Cold processable
- Pleasant sensory
- Low odour

APPLICATIONS

- Sun protection products
- Emulsions
- Creams and lotions
- Colour cosmetics
- Hair care

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SHELF LIFE

NATURALUXE MFF has a minimum shelf life of 2 (two) years from date of manufacture.

STORAGE RECOMMENDATIONS

Store away from excessive heat. A small amount of solvent may separate from the gel during shipment and storage. This is normal and can be mixed into the system before use.

QUALITY ASSURANCE

Quality and continuous improvement are paramount to our business.

COMPATIBILITY

NATURALUXE MFF was developed for, anhydrous, oil in water emulsion and ethanol systems.

HEALTH & SAFETY

Before using this product, please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

INCORPORATION

NATURALUXE MFF is a medium viscosity liquid. It should be added to the oil phase of the system under moder propeller mixing to ensure proper dispersion. Mix until homogeneous before adding the other ingredients.

LEVEL OF USE

The level of use of the **NATURALUXE MFF** will depend on the formulation. Typical use levels range from 2 – 10%.

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