



EINAR® PLANT-BASED PERSONAL CARE INGREDIENTS

A PEG-free natural non-ionic emulsifier for color cosmetics and low viscous products

Einar® 4103 is a multifunctional non-ionic w/o emulsifier widely used in color cosmetics and personal care formulations, as it enables smooth, uniform textures in creams, lotions and makeups. It enhances pigment wetting and dispersion, resulting in uniform color payoff and improved texture, making it a versatile choice for foundations, BB creams, lip products, sunscreens, and rich emulsions.

PRODUCT NAME

Einar® 4103

INCI

Polyglyceryl-3 Polyricinoleate

FUNCTIONS

Emulsifier
Pigment wetting
Pigment dispersion
Emollient

USAGE RANGE

1 – 6%

APPLICATIONS

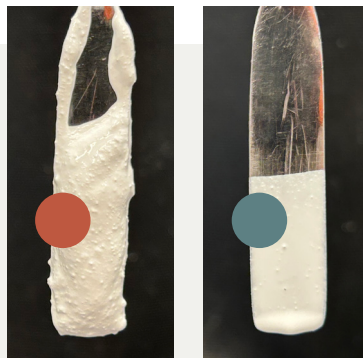
Foundation
BB creams
Cleansing oil
Lip care
Sun care
Color cosmetics
Makeup remover
Face care
Body care
Baby care

KEY FEATURES

- ✓ HLB: 4
- ✓ Non-ionic
- ✓ Non-palm
- ✓ 100% naturally derived (NOI: 1)
- ✓ Melting point: < 15°C
- ✓ Liquid at room temperature
- ✓ Kosher/Halal certified
- ✓ COSMOS approved
- ✓ Good eye and skin-compatibility
- ✓ Non-GMO*

KEY BENEFITS

- ✓ Rich, nourishing and velvety skin feel
- ✓ Offers stability for low viscous products
- ✓ Uniform color payoff and enhanced spreading
- ✓ Prevents agglomeration of hydrophilic ingredients in hydrophobic environment such as cleansing oils
- ✓ Suitable for hot and cold emulsification process
- ✓ Stable over a broad pH range (3-11)
- ✓ Compatible with various surfactants, polyols, natural and synthetic gums
- ✓ Suitable for all-natural and vegan products



EFFECTIVE WETTING OF EINAR® 4103 OF 50% TITANIUM DIOXIDE IN CAPRYLIC/CAPRIC TRIGLYCERIDE

- Without Einar® 4103
- With 1% Einar® 4103

Einar® products are crafted from food-grade vegetable oils sourced from sunflower, rapeseed, coconut, castor, and RSPO-certified palm and made with a deep focus on responsible resource consumption, our commitment to sustainability shines. Our products are produced without (use of) ethoxylates, preservatives and GMO ingredients. With innovation, knowledge, and ethical practices, we deliver reliable, high-quality solutions for personal care formulators. Committed to the UN Global Compact's principles, we stand as a responsible partner, providing support and solutions for your future endeavours.

* In accordance with Regulation (EC) 1829/2003

Learn more about our additives for personal care at www.palsgaard.com

Palsgaard®