

EINAR® PLANT-BASED PERSONAL CARE INGREDIENTS

A PEG-free natural non-ionic emulsifier for natural lipid system

Einar® 4645 is a lipophilic non-ionic emulsifier with ability to form water-in-oil emulsions with luxurious texture and long-lasting hydration. It creates a soft, smooth and nourishing finish without leaving a heavy or greasy residue. It reduces interfacial tension between pigments and oils, improving wetting and reducing agglomeration. It works very well with hydrophobic pigments.

PRODUCT NAME

Einar® 4645

INCI

Polyglyceryl-3 Oleate

FUNCTIONS

Emulsifier

Emollient

Dispersing agent

Sensory enhancer

USAGE RANGE

1 – 5%

APPLICATIONS

Face care

Color cosmetics

Sun care

Body care

Eye care

Neck care

Baby care

Face cleansers

Shampoo

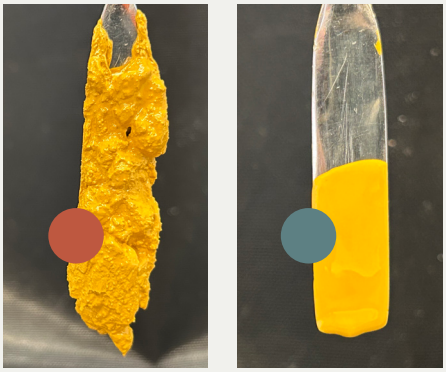
KEY FEATURES

- HLB: 5
- Non-ionic
- Non-palm
- 100% naturally derived (NOI: 1)
- Melting point: <15°C
- Liquid at room temperature
- Kosher/Halal certified
- Good eye and skin-compatibility
- Non-GMO*

KEY BENEFITS

- Rich, cushiony and smooth skin feel
- Effective dispersion of iron oxide pigments
- Improved slip and product spreadability
- Suitable for hot and cold emulsification process
- Stable over a broad pH range (3-11)
- Compatible with various emulsifiers, oils, natural and synthetic gums
- Suitable for all-natural and vegan products

EFFECTIVE WETTING BY EINAR® 4645 IN A DISPERSION CONTAINING 50% YELLOW IRON OXIDE IN ISOPROPYL MYRISTATE



- Without Einar® 4645
- **With 5% Einar® 4645**

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®