

OLEAMULS® WO

INCI Polyglyceryl-6 Pentaoleate
CAS 104934-17-0

SPECIFICATIONS

Appearance	Viscous oily liquid
Color	Amber
Odor	Characteristic
pH	6.0 – 8.0
Dry residue	95 - 97%
Acid number	5 max. (mg KOH/g)
Saponification number	155 – 175
HLB	6 (Experimental)
Dosage level:	3 – 8% (as sole emulsifier)

GENERAL INFORMATION

Oleamuls® WO is an non-ionic water in oil emulsifying system obtained from the esterification of olive oil's fatty acids and represents the better alternative to the common PEG emulsifiers. It forms a lattice of liquid crystals within the emulsion making it look smooth and glossy in appearance with a soft and light feel, unusual in water in oil systems.

Oleamuls WO® is palm-free and environmentally-friendly because, as a liquid, it requires less energy during processing (cold processing). It is easy to use and effective at dispersing pigments and sun filters.

Oleamuls WO® is extremely well tolerated by the skin and thus very interesting for the formulation of baby care products. It decreases the TEWL and has a regenerative and protective effect on the natural skin barrier.

FORMULATION & RECOMMENDATIONS

It generally requires more mechanical energy to prepare a WO emulsion than it does to make an OW emulsion.

The emulsifier's liquid form simplifies the emulsification operation significantly, as it can be carried out at a low temperature (cold processing).

The recommended procedure is as follows

1. Add the emulsifier to the oleaginous phase. If it contains solid ingredients, heat it until it attains clarity.
2. Heat half of the aqueous phase to about 50°C.
3. Add the heated portion of the aqueous phase to the oleaginous phase, pouring it in in a gradual, thin stream, with interruptions, while stirring constantly with the turbo-emulsifier.
4. Subsequently add in the second portion of the aqueous phase, the preservative system, the active ingredients and the fragrance.
5. Continue to apply the combined action of the counter-rotating turbine/turbo-emulsifier for a few minutes.

BENEFITS

- Non-ionic emulsifier, made from plant-derived raw materials, Palm Oil-free.
- Thanks to the liquid-crystal structures it is possible to have stabilization of the emulsion viscosity even in presence of lipid phases with different polarities.
- Effective at dispersing pigments and sun filters.
- The emulsion obtained is smooth and glossy in appearance with a pleasantly light feel and emollient property.

- Easy to use at low temperatures (cold processing), soluble in ethanol, mineral and vegetal oils, fatty acids, fatty alcohols and their derivatives.

APPLICATIONS

Cosmetics

- Moisturizing creams and creams for children
- Sensitive skin and baby care products
- Sun care and after-sun products
- Foundations for make-up

This product is not available in Germany, UK, Italy, USA, India

PACKAGING & SHELF LIFE

Available packaging

20 kg drums / 200 kg drums / 1.000 kg IBC

Shelf life

Under proper storage conditions the shelf life is 36 months.

REGULATORY

ECOCERT/COSMOS
NATRUE
NATURALITY INDEX
(according to ISO16128)

Approved
Allowed
1 (derived natural)



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