

FLORASOLVS® MACADAMIA-16

INCI Name: PEG-16 Macadamia Glycerides

Product Code: F016

CAS #: 220459-99-4

EINECS: polymer

Brand: Florasolvs®

Florasolvs® Macadamia-16 is a hydrophilic liquid emollient derived from ethoxylated macadamia oil glycerides. It functions as an emollient, refatter, conditioner, solubilizer and secondary emulsifier (HLB 13.0). Key benefits are its high clarity in water, high moisture function, room temperature oil dispersibility, excellent clarity in gels, and water-soluble macadamia emolliency.

As an emollient, Florasolvs® Macadamia-16 leaves skin feeling smooth and soft and also conditions hair. It is ideally suited for clear aqueous products, allowing for many color addition options. It is also well suited for an array of clear gel formulations: shower gels, hair grooms and gels, after sun gels, glitter gels and bronzers. It forms clear dispersions in oils, creating water washable massage oils and beauty oils.

Florasolvs® Macadamia-16 is an excellent way to achieve macadamia oil emolliency in water-based formulas. Good skin moisturization is also achieved because the fatty acid profile for macadamia is similar to that of skin sebum. This makes it particularly suitable to counteract the drying effect of alcohols in water/alcohol systems. In aqueous solution it is of near neutral pH.

Suggested use levels for Florasolvs® Macadamia-16 are 1 – 5% in clear gels, 0.1 – 3% in hair sprays, 0.2 – 5% in shampoos, 1 – 5% in skin care, 1 – 5% in sun care (pre- and after-care), and 0.5 – 10% in toners/fresheners. Its multifunctional benefits have resulted in its incorporation in a broad range of rinse-off and leave-on products for skin and hair.

Florasolvs® Macadamia-16 is available as a quasi drug ingredient, meeting the Japan Pharmacopeia requirements for the category under which it falls. JCIC number: 504340. Its shelf life is 24 months when stored in closed containers below 40°C in well ventilated areas.

Features & Benefits:

- Biodegradable
- Co-emulsifying Agent
- Emollient
- Fragrance Solubilizer

- Moisturizing Agent
- Plant Derived / Vegetal Based
- Solubilizing Agent
- Superfatting Agent

Appearance (25°C)	Straw-colored liquid
Color (Gardner)	3 maximum
Odor	Typical (slightly fatty)
Hydroxyl Value (mg KOH/g)	90 - 130
Saponification Value (mg KOH/g)	45 - 60
Acid Value (mg KOH/g)	2.0 maximum
Specific Gravity (25°C/25°C)	1
Microbiology	100 CFU/g maximum
Flash Point (°C)	290
Insoluble In	Cyclomethicone Dimethicone Glycerin Lanolin Oil Mineral Oil Simmondsia Chinensis (Jojoba) Seed Oil
Soluble In	Acetone Alcohol [Ethanol] Ethyl Acetate Isopropyl Alcohol Oleyl Alcohol Polysorbate 20 Polysorbate 80 Ricinus Communis (Castor) Seed Oil Water
Toxicology Profile	Ingestion: Harm unlikely, apart from a laxative effect. Ocular / Eye Irritation: Eye contact may cause irritation. Skin Irritation: Irritation unlikely unless exposure is excessive and/or prolonged.
Packaging	Drum - 200kgs Square - 20kgs

Regional Approvals:

- Australia
- China
- EU

- Japan
 - Korea
 - New Zealand
 - Taiwan
 - US
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Applications:

- After Sun Skin Care
- Facial Cleansers
- Facial Skin Care
- Hand & Body Care
- Massage Products
- Self-Tanners
- Shampoos
- Shower Gels/Body Washes

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