

RADIGARD[™]



PRODUCT DESCRIPTION

Inspired by the power of nature, Green Line's Radigard™ product line utilizes the unique chemistry of the rosemary herb to help protect your cosmetic formulations from oxidation.

CERTIFIED

A notable member of the mint family, rosemary (sometimes also known as anthos, the Greek word meaning "flower") and its derivatives have long enjoyed immense popularity within many industries. The plant's powerful phytochemistry has made it an excellent ingredient in formulations, and there is speculation that it may have medicinal properties as well. Studies throughout the years have shown the presence and activity of antioxidant compounds in the rosemary leaf, which has significant applications when incorporated into cosmetic and personal care products.

Green Line's[™] Radigards[™] feature a unique botanical antioxidant from a specially refined extract of Rosmarinus officinalis (rosemary) leaves. This extract provides reliable oxidation protection for a wide range of oils, and can serve as an alternative to soy based tocopherol in cosmetic formulations.

Trade Name	Oil Carrier	INCI Name
Radigard™ SN-R	Sunflower oil	Helianthus Annuus (Sunflower) Seed Oil, Rosmarinus Officinalis (Rosemary) Leaf Extract
Radigard™ SF-R	Safflower oil	Carthamus Tinctorius (Safflower) Seed Oil, Rosmarinus Officinalis (Rosemary) Leaf Extract
Organic Radigard™ CO-R	Organic canola oil	Canola Oil, Rosmarinus Officinalis (Rosemary) Leaf Extract
Radigard™ CT-R	Caprylic/capric triglyceride	Caprylic/Capric Triglyceride, Rosmarinus Officinalis (Rosemary) Leaf Extract

PRODUCT FUNCTION

Radigard[™] provides the oil phase of your formulation with multiple layers of protection from oxidation through a carnosic acid oxidation cascade - carnosic acid is able to be sacrificially oxidized three times (first to carnosol, then rosmanol, and finally to gladosol), thus offering heightened stability to cosmetic formulations and extension of their shelf lives.



RADIGARD[™] MULTIFUCTIONAL NATURAL ANTIOXIDANT

KEY BENEFITS-

- 100% Naturally Derived
- Preservative Free
- Low Use Level
- Low Odor
- Oil Dispersible
- Multi-functional
- Efficient & Convenient
- Easy to Incorporate
- Eco-Friendly Ingredient List
- Ideal for All Product Categories
- Alternative to Soy Based Materials





PRODUCT PERFORMANCE



SHELF LIFE— 12 months PACKAGING— 5 kg pail, 18 kg pail, and 180 kg drum

GENERAL GUIDELINES—

RECOMMENDATION		
Use Level	0.1 - 0.5% (minimum of 0.5% of oil phase)	
Temperature Range	Add at < 60 °C	
Procedure Add RADIGARD™ to oil phase and incorporate by mixing.		



Please Note: The product information on this technical data sheet is provided as guidance, and is subject to change. It is not intended to be a product specification.