

Vegetatum[®] Clear RM



Formulators are turning to botanical extracts to replace traditionally used petrolatum products that are quickly becoming less desirable in the cosmetic and personal care industries. The **Vegetatum[®]** line of ingredients provides exactly what formulators want – a natural based alternative to petrolatum. It is important to note that the safety of petrolatum (or petroleum jelly) has been so controversial that it has been listed as a probable human carcinogen on the European Union's Dangerous Substances Directive due to its potential to contain harmful impurities.

Not only does **Vegetatum[®]** provide a safer alternative to petroleum based emollients, it is also an excellent source of Essential Fatty Acids (EFAs). Scientific research continues to indicate the nutritional benefits associated with EFAs are important for healthy looking skin and hair. The entire range of **Vegetatum[®]** products are created from a Canadian sourced, non-transgenically modified canola oil that is rich in EFAs and vitamin E. This novel line of emollients help to soften, smooth and protect the epidermis/hair cuticle through the retention of the body's natural oils and moisture. **Vegetatum[®]** products allow for the replacement of petroleum jelly with a plant based ingredient that is high in EFAs.

Description:

Vegetatum[®] Clear RM is an emollient produced from non-transgenically modified canola oil that is later supplemented with Rosemary extract (anti-oxidant). **Vegetatum[®] Clear RM** is superior to petroleum based emollients, such as petrolatum, as it has exceptional thermostability, a gel-like structure and is also less greasy. **Vegetatum[®] Clear RM** has little to no odour and its clear appearance allows for the widespread use in a number of applications where clear and transparent appearances are desired. The skin smoothing/hydrating properties and EFAs within **Vegetatum[®] Clear RM** are also associated with a decrease in fine lines.

Functionality:

Vegetatum[®] Clear RM helps to soften and smooth the skin in the same way as other emollients. When applied to the skin, **Vegetatum[®] Clear RM** forms a light film that prevents evaporation of moisture from the skin and protects the skin from irritation. The skin smoothing/hydrating properties and EFAs within **Vegetatum[®] Clear RM** is also associated with a decrease in fine lines. **Vegetatum[®] Clear RM** is an ideal ingredient in cosmetic formulations as it can be used as a skin conditioner, emollient, film former, viscosity controlling agent and a viscosity building agent for anhydrous systems.

Applications:

Vegetatum[®] Clear RM coats the epidermis when applied to the skin, thus it is an excellent moisturizing ingredient in creams, lotions, scrubs, sunscreen, and cosmetics. **Vegetatum[®] Clear RM** performs particularly well in skin care, hair care and sunscreen formulations, which include baby creams, emollient creams, cold creams, conditioning creams, protective creams, sunscreen and self-tanning lotions, lip balms, lipsticks, eye-shadows and bar soaps, where little to no fragrance is a formulating requirement.

INCI Name: Canola Oil (and) Silica (and) Zea Mays (Corn) Starch

Specifications:

Appearance:	Clear, transparent, light yellow gel
Odour:	Little to none
Bacteriological Data:	Total bacteria count (aerobic): <100 cfu/g (At the time of packaging)
Solubility:	Soluble in all vegetable oils, glycerol triisostearate, isostearyl isostearate, oleic acid, isostearic acid, coco-caprylate/caprate and mixed glycerides. Insoluble in water, absolute ethanol and 1,2-propanediol, dimethicone and cyclomethicone. Miscible in anhydrous solutions
pH (1:20 water emulsion):	4.6 - 6.6
Gardner Colour (1:10 in mixed glycerides):	Maximum 3
Stability:	Stable at room temperature. Store in original container under 20°C.
Recommended Usage Level:	Skin care creams and lotions: 1% to 10% (wt/wt) Others: 1% to 99% (wt/wt)
Formulating pH:	The recommended pH range is 3 to 8.
Formulating Temperature:	The recommended working temperature range is 25°C to 80°C. The best working temperature is 75°C.

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