

Vegetatum® Equiline

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® Equiline is more opaque in appearance and viscous in consistency when compared to **Vegetatum® Equiline SF**. This plant based emollient, high in EFAs, is an ideal choice for formulations that reduce skin roughness, irritation and aid in skin smoothing and softening. The exceptional thermostability, viscous consistency, gel-like structure, and less greasy feel of **Vegetatum® Equiline** allows for it's use in a wide array of formulations. Upon application **Vegetatum® Equiline** forms a light barrier on the skin surface that minimizes the loss of moisture and diminish the appearance of fine lines.

Functionality:

Vegetatum® Equiline 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. **Vegetatum® Equiline** creates a barrier when applied to the skin; thus it is an excellent moisturizing ingredient in creams, lotions, scrubs, sunscreen, and cosmetics.

Applications:

Vegetatum® Equiline performs particularly well in skin care, hair care and sunscreen formulations, which includes baby creams, emollient creams, cold creams, conditioning creams, protective creams, sunscreen and self-tanning lotions, lip balms, lipsticks, eye-shadows and bar soaps.

INCI Name: Canola Oil (and) Glycine Soja (Soybean) Germ Extract (and) Zea Mays (Corn) Starch (and) Silica

Specifications:

Appearance:	Off-white, opaque gel
Odour:	Very light
Bacteriological Data:	Total bacteria count (aerobic): <100 cfu/g (At the time of packaging)
Solubility:	Soluble in vegetable oils, glycerol triisostearate, isostearate, oleic acid, isostearate, oleic acid, isostearic acid, coco-capryl/caprinate and mixed glycerides. Insoluble in water, absolute ethanol and 1,2-propanediol, dimethicone. 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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