

ProductData


MPSI

 Mineral and Pigment
Solutions, Inc.

Wax - Beeswax Derivative

Cera Bellina (106) PEG-3



Koster Keunen, LLC

Waxes of Superior Quality Since 1852

Authorized Distributor:

Description:

Cera Bellina is a hydrophilic derivative of natural beeswax in which the free fatty acids have been converted to polyglycerols esters. Elimination of the free fatty acid functionalities in beeswax improves the oil gelling and oil retention capability. With Cera Bellina, all natural plant and vegetable oils can now be gelled with relatively low wax concentrations. Smooth, soft gels are the result. Products formulated with Cera Bellina and natural and synthetic oils produce re-

markably stable, smooth gels. This property is also beneficial in emulsion products. In decorative cosmetics, Cera Bellina helps to break up pigment agglomerates by forming a gel network thereby maintaining an even distribution of ingredients. Cera Bellina also suppresses the fatty acid, fatty alcohol migration and oil syneresis (sweating) in finished stick formulas.

Note: Specific product application recommendations are available on request.

TYPICAL PROPERTIES:

Chemical Properties:

Acid Value:	< 2	Peroxide Value:	< 5
Ester Value:	80 - 90	Melting Point Range:	63 - 73 °C
Iodine Value:	7 - 11		

Solubility and stability of Cera Bellina are similar to beeswax.

Special Properties and Applications:

Cera Bellina has the unique ability to give stability by forming non-granular gels of liquid oils. Examples are mono, di, and triglycerides, straight chain and branched chain esters and paraffinic hydrocarbons. Stability has also been observed in combination with solid fits and waxes such as Glycerides, Ozokerites, Carnauba and Candelilla. Besides the consistency regulating properties of beeswax, Cera Bellina has the remarkable capability of inhibiting crystallization in the oil phase and therefore enhancing stability by preventing the formation of granules. Cera Bellina also greatly improves stability in dispersions utilizing non-soluble components, such as organic and inorganic pigments, as well as mineral and polymer extenders.

Uses:

Cosmetic emulsions (o/w and w/o type), oil gel products and decorative cosmetics.

Toxicology:

Non-toxic and non-irritating (skin & eyes). Similar to Beeswax.

Regulatory Information:

CTFA/INCI NAME: Polyglycerol-3 Beeswax / Pg-3 Beeswax.

CAS#: 136097-93-3. **JAPANESE NAME:** Polyglycerol-3 Beeswax..

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