

TinSorb™ BHB UV Filter

INCI: Butyloctyl Salicylate



Introduction

TinSorb™ BHB is a novel, multifunctional ingredient and dispersing agent ideal for sun care, skin care, and color cosmetics. It is effective as a sunscreen actives solvent, inorganic pigment wetter, emollient, moisturizer, and carrier. A low viscosity liquid of high polarity with elegant slip and feel, it is useful as a solvent and emollient in topical preparations for skin and hair. TinSorb™ BHB significantly increases the in vivo SPF performance of sun protection products through the reduction of electron transfer and photoprotection mechanisms.

Chemical Name

2-hydroxybenzoic acid 2-butyloctyl ester

INCI Name

Butyloctyl Salicylate

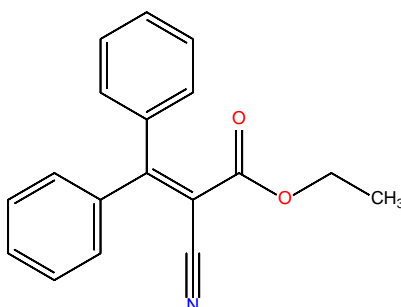
CAS Number

190085-41-7

EINECS Number

431-090-3

Chemical Structure



Chemical Formula

C₁₉H₃₀O₃

Molecular Weight

306.44

Physical Properties

Appearance	Colorless clear liquid
Color (APHA)	20
Freezing Point (°C)	Max.-25
Saponification Value (mg KOH/g)	181
Specific gravity (25°C)	0.974

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Acid Value (mg KOH/g)	0.3
Refractive Index (25°C)	1.4920
Dielectric Constant (25°C)	5.35
Viscosity (cP, 25°C)	16

Solubility

Insoluble In:	
Glycerin	
Water	
Soluble In:	
Caprylic/Capric Triglyceride	
Cyclomethicone and Dimethicone	
Isopropyl Alcohol	
Isopropyl Myristate	
Mineral Oil	
Octyl Methoxycinnamate	
Solvency Of:	
4-Methylbenzylidene Camphor (Enzacamene)	10%
Ethylhexyl Triazone	<1.8%
Benzophenone-3 (Oxybenzone)	16%

Benefits & Applications

Emollient
Moisturizing Agent
Pigment Binding Agent
Pigment Wetter & Dispersant
Sunscreen Solvent

The lower end of the range is best for solvent polarity optimization in sunscreens, while the upper end is best for make-up formulations that require exceptional pigment wetting.

Sun care products typically contain 5% or less of this ingredient in order to be globally compliant.

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Note that, at 5% use in a sun care formulation, TinSorb™ BHB is responsible for no more than 2 SPF units.

Recommended use levels range from 2% to 10%.

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

TinSorb™ BHB is supplied in 25kg drum.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

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