

HALLBRITE® BHB

INCI Name: Butyloctyl Salicylate
Product Code: 2231
CAS #: 190085-41-7
ELINCS: 431-090-3
Patents: 5,783,173, 5,788,954, 5,849,273, 6,350,894
Brand: HallBrite®

HallBrite® BHB (Butyloctyl Salicylate) — the synthetically produced ester of Salicylic Acid and a defined branched C12 alcohol, 2-Butyloctanol — is a novel, patented 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. HallBrite® BHB significantly increases the *in vivo* SPF performance of sun protection products through the reduction of electron transfer and photoprotection mechanisms.

HallBrite® BHB combines lower potential irritation compared to similar materials, excellent spreadability, added substantivity in the presence of water, and a pleasant, moisturizing skin feel. It is compatible with most lipophilic cosmetic additives, and solubilizes many commonly used active ingredients including Oxybenzone and Avobenzone. Its low freeze point (< -25°C) gives HallBrite® BHB the ability to maintain these actives in solution at low temperature. It is an excellent carrier for micronized Titanium Dioxide, Zinc Oxide and cosmetic colorants (inorganic pigments). Recommended use level: 2-10%.

Features & Benefits:

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

Appearance	Clear colorless to pale hued liquid
Odor	Faint, characteristic
Color (APHA = PtCo)	20

Freezing Point (°C)	< -25
Saponification Value (mg KOH/g)	181
Specific Gravity (25°C/25°C)	0.974
Acid Value (mg KOH/g)	0.3
Refractive Index (25°C)	1.492
Dielectric Constant (25°C)	5.35
Viscosity (cP, 25°C)	16
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%
Toxicology Profile	28-Day Oral Toxicity: No functional, microscopic or macroscopic pathology at any dose. NOEC = 150mg/kg/day Acute Dermal Toxicity: Non-toxic. LD50 > 2 g/kg Acute Oral Toxicity: Non-toxic. LD50 > 5 g/kg Ames Test: No evidence of mutagenic activity. Chromosome Abberation Test: No evidence of clastogenic activity. Guinea Pig Maximization Test: No dermal response indicative of sensitization at 100% challenge. Primary Eye Irritation: Not a primary eye irritant. Primary Skin Irritation: Not a primary skin irritant. Potential for moderate irritation when applied at 100% under occlusive wrap conditions. PII - 2.12.
Packaging	Drum - 435lbs Pail - 40lbs

Regional Approvals:

- Canada
- China
- EU
- US

Applications:

- Beach Wear Sun Care
- Daily Wear Sun Care
- Eye Area Color Cosmetics
- Facial Color Cosmetics
- Facial Skin Care
- Hand & Body Care
- Lip Care
- Tanning Oils

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