

SolaStay® S1

INCI Name: Ethylhexyl Methoxycrylene

Product Code: H044

CAS #: 947753-66-4

Patents: 7,588,702; 7,597,825; 7,713,519; 7,754,191; 7,959,834; 8,070,989; 8,075,808; 8,133,477; 8,257,687; 8,263,050; 8,263,051; 8,268,294; 8,278,332; 8,329,148; 8,431,112.

Patents Pending.

Brand: SolaStay®

SolaStay® S₁ is a viscous yellow liquid designed for use in skin care and sun care products. It is a highly efficient singlet state quencher for Butyl Methoxydibenzoylmethane (Avobenzone) and Ethylhexyl Methoxycinnamate (Octinoxate). Indeed, it outperforms Octocrylene as an Avobenzone photostabilizer, photostabilizes Octinoxate and Avobenzone when formulated together, is an outstanding solvent for crystalline UV filters, is easily emulsified, and is suitable for use in lotion, cream, spray, stick, and gel formulations. At a recommended use level in sunscreens equal to the weight percentage of Avobenzone in the formulation (typically 2 – 3%), the result is new heights in broad spectrum UVA and UVB photoprotection.

SolaStay® S₁ has also been documented to substantially photostabilize Cholecalciferol, Resveratrol, Retinol, Retinyl Palmitate, and Ubiquinone, which may be incorporated in skin care products for their anti-aging and other benefits. The recommended used level for SolaStay® S₁ to photostabilize these products is 3 – 5%.

Features & Benefits:

- Anti-aging Ingredient Photostabilizer
- Sunscreen Active Photostabilizer
- Sunscreen Solvent

Appearance (25°C)	Clear yellowish viscous liquid
Color (Gardner)	9
Odor	Mild characteristic
Dielectric Constant (25°C)	12.9
Specific Gravity (25°C/25°C)	1.075

Viscosity (cP, 25°C)	13000
Viscosity (cP, 80°C)	58
Acid Value (mg KOH/g)	0.7
Soluble In	Alcohol [Ethanol] Cosmetic Esters
Solvency Of	4-Methylbenzylidene Camphor (Enzacamene) 10% Ethylhexyl Triazone 25% Benzophenone-3 (Oxybenzone) 30%
Toxicology Profile	Ames Test: No detectable genotoxic activity in absence or presence of S9 enzyme activation. Ocular / Eye Irritation: Practically no ocular irritation potential in vivo at 20% (HET-CAM). Phototoxicity: Did not induce a response indicative of a photoxic reaction. Repeat Insult Patch Test (Human): Did not indicate a potential for dermal irritation or allergic contact sensitization.
Packaging	Drum - 420lbs Pail - 40lbs

Regional Approvals:

- Canada
- EU
- US

Applications:

- After Sun Skin Care
- Beach Wear Sun Care
- Daily Wear Sun Care
- Facial Color Cosmetics
- Facial Skin Care

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