



ELUVSAFE - OMC™ (Octyl Methoxy Cinnamate (OMC))

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Clear colorless to yellow liquid
Physical Form	Liquid
Odor	Odorless
Molecular Weight (g/mol)	290.4
Density or Specific Gravity	1.009
Refractive Index	1.543-1.547
Density	1.009 g/cm ³
Chemical Properties	
Water Solubility	<0.1 g/100 mL at 27 °C
Incompatibilities	Strong oxidizing agents.
Thermal Properties	
Melting Point	<25°C
Boiling Point	198-200°C
Flash Point	193°C
Solvent	
Water	<0.1%, insoluble
Ethanol	Up to 75-80%
Acetone	Soluble
Methanol	Soluble
Paraffin Oil	Soluble
Isopropyl	Soluble

2. Processing Methods



Cosmetic sunscreen spray

Dissolve Ethylhexyl Methoxycinnamate in the oil phase to ensure complete solubilization. Use compatible emulsifiers or solubilizers to maintain clarity and stability in spray formulations.

Key Ingredients	Indicative Dosage (% w/w)
Cetearyl alcohol, PEG-40 castor oil	3.15%
Decyl oleate	15%
Ethylhexyl methoxycinnamate	3%
Butyl methoxydibenzoylmethane	0.5%
Phenylbenzimidazole sulfonic acid	2.78%
Xanthan gum	0.15%
Aqua	60-70%
Preservatives, colorant, parfum and pH regulator etc.	

Lipstick

In lipstick production, melt Ethylhexyl Methoxycinnamate into the oil or wax phase to ensure uniform solubilization. Mix thoroughly to evenly distribute the UV filter, ensuring consistent sun protection and product stability.

Key Ingredients	Indicative Dosage (% w/w)
C-12-15 alkyl benzoate	25-50%
Polyethylene	10-25%
Ethylhexyl methoxycinnamate	5-7.5%
Octyldodecanol	1-5%
Antioxidants	0.1-0.5%
Octocrylene	1-5%
Other UV filters	



Foundation cream

Add Ethylhexyl Methoxycinnamate (Octinoxate) to the oil phase of foundation creams and heat to ensure full dissolution. It offers UVB protection, so combine with other filters for broad-spectrum efficacy and ensure emulsion stability at the chosen concentration.

Key Ingredients	Indicative Dosage (% w/w)
Cyclopentasiloxane	15%
Ethylhexyl Methoxycinnamate	7.5%
Titanium Dioxide	10%
Iron Oxides	5%
Glycerin	4%
Dimethicone	3%
Cetearyl Alcohol	3%
Glyceryl Stearate	2%
Preservative (e.g., Phenoxyethanol)	1%
Fragrance	0.5%
Aqua	50-60%
Other additives	

Lip balm

Incorporate Ethylhexyl Methoxycinnamate into the oil phase of lip balm formulations, heating gently for complete dissolution. Blend well with waxes and butters to ensure even distribution and product stability. Avoid overheating to preserve UV filter efficacy.

Key Ingredients	Indicative Dosage (% w/w)
Petrolatum	40%
Beeswax	20%
Ethylhexyl Methoxycinnamate	7.5%
Shea Butter	10%
Caprylic/Capric Triglyceride	5%
Vitamin E (Tocopherol Acetate)	2%
Flavor (e.g., Vanilla)	1%
Lanolin	7%
Microcrystalline Wax	4%



3. Dosing by Application

Products	Authorized dosage %
Sunscreen Lotions, Creams	Upto 7.5%
Skin Care Creams, Lotions	Upto 7.5%
Lip stick/balm	Upto 7.5%

4. Grade Comparison Summary

Parameter	Cosmetic Grade
Purity (Assay)	≥ 98.0%
Appearance	Colorless to slightly yellow liquid
Photostability	Moderate
Regulatory Compliance	INCI
Typical Applications	Sunscreens, foundations, SPF creams, lip balms

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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