



ELUVSAFE - HMS™ (Homosalate (HMS))

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Viscous or light yellow to slightly tan liquid or oil
Physical Form	Liquid
Odor	Mild menthol
Molecular Weight (g/mol)	262.34
Density or Specific Gravity	1.045 at 77 °F
Viscosity	85.1 mPa.s at 20 °C
Refractive Index	n ₂₀ - 1.516 to 1.518
Chemical Properties	
Water Solubility	<0.1 g/100 mL at 26 °C
Thermal Properties	
Boiling Point	322 to 329 °F at 760 mmHg
Flash Point	Greater than 200 °F
Autoignition Temperature	402 °C at 1.004 - 1.023 hPa

2. Processing Methods



Cosmetic sunscreen cream

When adding Homosalate in sunscreen formulations, incorporate it into the oil phase and heat to ensure complete dissolution. Ensure compatibility with other UV filters and stabilizers to maintain efficacy and photostability. Mix thoroughly and cool gradually to achieve a uniform and stable emulsion.

Key Ingredients	Indicative Dosage (% w/w)
Homosalate	10%
Avobenzone	3%
Octocrylene	2.7%
Octyl Salicylate	5%
Polysilicone-15	0.99%
Potassium Cetyl Phosphate	2%
Cetearyl Alcohol	2.5%
Tocopherol (Vitamin E)	0.2%
Phenoxyethanol & Ethylhexylglycerin	1%
Dicaprylyl Carbonate	3%
Hydrogenated Coco-glycerides	1%
C12-15 Alkyl Benzoate	3%
Xanthan Gum	0.2%
Disodium EDTA	0.1%
Alpha-Arbutin	2%

Lip balm

Add during the oil heating phase, ensuring compatibility with waxes and flavor oils to prevent crystallization or separation.

Key Ingredients	Indicative Dosage (% w/w)
Pure hydrocortisone powder	0.2-3%
Pure beeswax	20-28%
Petroleum jelly	40-50%
Homosalate	3-5%



Makeup foundation

In foundation production, incorporate Homosalate into the oil phase, heating gently to fully dissolve it. Ensure thorough mixing for even UV protection and to maintain formulation stability.

Key Ingredients	Indicative Dosage (% w/w)
Water (Aqua)	50-60%
Homosalate	4.25%
Octisalate	4.75%
Zinc Oxide	6.75%
Dimethicone	10%
Glycerin	5%
Titanium Dioxide	3%
Cetearyl Alcohol	2%
Phenoxyethanol	0.8%
Carbomer	0.5%
Triethanolamine	0.3%
Fragrance, Pigments	

Sunscreen Lotion

In sunscreen lotion formulation, add Homosalate to the oil phase and heat it to ensure full solubilization. Mix thoroughly before emulsification to ensure uniform UV protection and maintain formulation stability.

Key Ingredients	Indicative Dosage (% w/w)
Water	60-70%
Homosalate	5-15%
Octyl methoxycinnamate	7.5%
Oxybenzone	3-6%
Octyl salicylate	5%
Emulsifiers, emollients, preservatives, fragrance	

3. Dosing by Application

Products	Authorized dosage %
Sunscreen Lotions, Creams, Sprays	5-15%
Skin Care Creams, Lotions	Upto 7.5%



Products	Authorized dosage %
Lip stick	3-5%
Hair Care Products - UV Protection Hair Mask, Conditioners	Upto 10%

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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