



ELPROTECT – EHG™ (Ethylhexylglycerin (EHG))

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Clear colorless liquid
Physical Form	Liquid
Odor	Characteristic
Molecular Weight (g/mol)	204.31
Density or Specific Gravity	0.962 g/ML
Refractive Index	1.4490 to 1.4530
Viscosity	60-75 cps (at 25 °C)
pH	6.5 - 7.15 (10% aqueous solution)
Thermal Properties	
Boiling Point	325°C _a
Flash Point	152 °C

2. Processing Methods



Cosmetic moisturizing cream

When adding Ethylhexylglycerin in creams, incorporate it in the cool-down phase to preserve its efficacy. Mix gently but thoroughly to ensure even distribution without affecting emulsion stability. Avoid heating it directly to maintain its antimicrobial properties.

Key Ingredients	Indicative Dosage (% w/w)
Distilled Water	38%
Glycerin	2%
Cetyl Alcohol	4.25%
Ethylhexyl Palmitate	23%
Grapeseed Oil	8.5%
Cetearyl Alcohol (and) Ceteareth-20	3.55%
Caprylic/Capric Triglycerides	10%
Sweet Almond Oil	3.5%
Glyceryl Stearate (and) PEG-100 Stearate	6.1%
Ethylhexylglycerin	1%

Hair shampoo

Add Ethylhexylglycerin at 0.3-1.0% during the cool-down phase and combine with a solubilizer or preservative like phenoxyethanol for enhanced efficacy. Ensure thorough mixing for uniform distribution without destabilizing the formulation. Avoid high heat exposure to preserve its functional properties.

Key Ingredients	Indicative Dosage (% w/w)
Water (Aqua)	72.8%
Sodium Laureth Sulfate	12%
Cocamidopropyl Betaine	6%
Glycerin	3%
Ethylhexylglycerin	1%
Phenoxyethanol	0.8%
Fragrance	0.4%
Preservative	0.5%



Cleansers

In cleanser production, add Ethylhexylglycerin during the cool-down phase to preserve its efficacy as a preservative booster and skin-conditioning agent. Mix gently to ensure uniform distribution without affecting clarity or texture.

Key Ingredients	Indicative Dosage (% w/w)
Primary Surfactants	10-20%
Secondary Surfactants	2-6%
Humectant (e.g., glycerin)	1-4%
Ethylhexylglycerin	0.3-1%
Preservatives	0.5-1%
Water	60-70%
Fragrance, color, actives	

Makeup foundation

In makeup foundation formulation add Ethylhexylglycerin during the cool-down phase to maintain its function as a preservative booster and skin-conditioning agent.

Key Ingredients	Indicative Dosage (% w/w)
Water (Aqua)	50%
Cyclopentasiloxane	10%
Dimethicone	5%
Glycerin	3%
Hyaluronic Acid	2%
Butylene Glycol	2%
Sodium Chloride	0.5%
Titanium Dioxide	5%
Iron Oxides	5%
Phenoxyethanol	0.8%
Ethylhexylglycerin	0.2%
Fragrance	

3. Dosing by Application

Products	Authorized dosage
Cosmetic moisturizing cream	0.3-1%



Products	Authorized dosage
Hair shampoo/Conditioners	0.3-1%
Lip stick	0.3-1%

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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