



ELVISC – STA™ (Stearic Acid)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	White powder; flakes; beads; granules
Physical Form	Powder
Odor	Mild odor
Molecular Weight (g/mol)	284.5
Density or Specific Gravity	0.86 at 68 °F
Viscosity	9.87 mPa.sec (cP) at 70 °C
Refractive Index	1.4299 at 80 °C
Thermal Properties	
Melting Point	156.7 °F
Boiling Point	721 °F at 760 mmHg
Flash Point	385 °F
Autoignition Temperature	743 °F

2. Processing Methods



Cosmetic cream

Add stearic acid to the oil phase and heat to ensure it fully melts. This prevents graininess and allows it to function effectively as a thickener and co-emulsifier.

Key Ingredients	Indicative Dosage (% w/w)
Water (Purified)	75.82%
Glycerin	5.00%
Stearic Acid	9.50%
Cetyl Alcohol	0.53%
Dimethicone	1.00%
Methylparaben	0.02%
Propylparaben	0.01%
Triethanolamine	0.50%
EDTA	0.10%
Potassium Hydroxide	0.32%
Fragrance	0.20%

Hair shampoo

In shampoo formulations, add stearic acid to the oil or surfactant phase and heat to ensure full melting. It helps to thicken the formula.

Key Ingredients	Indicative Dosage (% w/w)
Primary Surfactants	8-12%
Secondary Surfactants	2-5%
Stearic acid	0.5-5%
Water	60-80%
Conditioning Agents, Humectants, Preservatives, pH Adjusters etc.	



Cosmetic Ointment

Melt stearic acid with the oil phase to ensure complete integration and smooth texture. It acts as a thickener and stabilizer, so balance with emulsifiers to prevent phase separation in the ointment.

Key Ingredients	Indicative Dosage (% w/w)
10-12%	
Salicylic acid	4-6%
White vaseline	62%
Stearic acid	10%
Castor oil	4%
Camphor	1%
Sodium dodecyl benzene sulfonate	0.9%
Ethylparaben	0.1%

Makeup foundation lotion

When adding stearic acid in foundation lotion formulation, pre-melt it with the oil phase to ensure full dissolution. Blend thoroughly before emulsification to prevent graininess and ensure a smooth texture.

Key Ingredients	Indicative Dosage (% w/w)
Stearic acid	2%
Cetyl alcohol	4%
Paraffin liquid	20%
Dimethicone	5%
Polysorbate 80	3.65%
Propylparaben	0.02%
Propylene glycol	5%
Xanthan gum	0.3%
Methylparaben	0.18%
Distilled water	60-70%
Other additives	

3. Dosing by Application

Products	Authorized dosage
Skin Cleansing Preparations (Cold Creams, Lotions, Liquids)	1-5%



Products	Authorized dosage
Hair Shampoos, Hair Straighteners	5-10%
Baby Lotions, Oils, Powders, and Creams	0.1-5%
Eyeliner, Mascara, Eye shadow, Eyebrow Pencil	1-10%
Perfumes, Cologne	1-5%
Shaving Creams (Aerosols, Brushless, Lather), Shaving Soap (Cakes, Sticks)	4-10%

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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