



ELHUME - SBO70™ (Sorbitol)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	White crystalline powder; granules
Physical Form	Powder
Odor	Odorless
Molecular Weight (g/mol)	182.17
Density or Specific Gravity	1.49 at 59 °F
Refractive Index	1.3330 at 20 °C
pH (if aqueous solution)	7
Density	1.49 at 59 °F
Chemical Properties	
pKa	13.6 at 17.5 °C
Thermal Properties	
Melting Point	230 °F
Boiling Point	295 °C at 3.5 mm Hg
Flash Point	542 °F

2. Processing Methods



Cosmetic cream

Add Sorbitol to the water phase and to ensure complete dissolution. It acts as a humectant, so mix well to enhance moisture retention and maintain a smooth cream texture.

Key Ingredients	Indicative Dosage (% w/w)
Water (Purified)	75.00%
Glycerin	7.50%
Sorbitol	2.50%
Cetostearyl Alcohol	2.00%
Stearic Acid	1.75%
Lanolin	2.00%
Glyceryl Monostearate	3.00%
Triethanolamine	0.80%
Propylene Glycol	5.00%
Methyl Paraben	0.18%
Propyl Paraben	0.02%

Hair shampoo

Add Sorbitol to the heated water phase to ensure full dissolution. It functions as a humectant and conditioning agent, helping to retain moisture and improve shampoo feel.

Key Ingredients	Indicative Dosage (% w/w)
Deionized Water	70%
Sorbitol	10%
Sodium Laureth Sulfate	10%
Cocamidopropyl Betaine	5%
Glycerin	3%
Citric Acid, Preservative, Fragrance	



Facial Cleansers

Add Sorbitol to facial cleanser formulations during the water phase to boost hydration and improve skin feel.

Key Ingredients	Indicative Dosage (% w/w)
Deionized Water	50%
Glycerin	15%
Propylene Glycol	15%
Polysorbate 20	15%
PEG-150 (Polyethylene Glycol 6000)	2%
Sucrose Cocoate	0.7%
Sorbitol	0.7%
Sodium Stearoyl Lactylate	0.5%
Sodium Citrate	0.5%

Lip balm

In lip balm formulations, incorporate Sorbitol during the mixing phase to act as a humectant and improve moisture retention.

Key Ingredients	Indicative Dosage (% w/w)
Beeswax	25%
Shea Butter	20%
Coconut Oil	15%
Sweet Almond Oil	10%
Sorbitol	10%
Vitamin E	1%
Tocopherol (Vitamin E)	0.5%
Deionized Water	30-40%
Fragrance, Preservative	

3. Dosing by Application

Products	Authorized dosage %
Skin Creams, Gels, Lotions	5-10%
Hair products	1-5%



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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