



Sodium Hyaluronate

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	White to cream powder; fine granules; also available as viscous solution or gel
Physical Form	Powder
Molecular Weight (g/mol)	403.31
pH (if aqueous solution)	5.5 ~ 7.5
pH	5.5-7.5
Chemical Properties	
Water Solubility	5 mg/mL
Hazardous Reactions	None under normal use; stable
Thermal Properties	
Melting Point	>209°C (dec.)
Boiling Point	1275°C
Decomposition temperature	Decomposes before melting/boiling
Thermal stability	Stable under normal conditions

2. Processing Methods



Cosmetic cream

Dissolve Sodium Hyaluronate in the cold water phase with gentle stirring to prevent clumping and preserve its molecular integrity. Mix slowly to prevent clumping, allowing full hydration before emulsification. Add after emulsification if using heat-sensitive, high-molecular-weight grades.

Key Ingredients	Indicative Dosage (% w/w)
Water (aqua)	70-80%
Sodium hyaluronate	0.1%
Hydrogenated polydecene	20%
Steareth-2	3%
Steareth-21	1%
Cetearyl alcohol	1.5%
Propylene glycol, diazolidinyl urea, parabens	0.2%

Lip balm

Since Sodium Hyaluronate is water-soluble and lip balms are typically anhydrous, it can be incorporated by creating a stable water-in-oil (W/O) emulsion. Use specialized emulsifiers to ensure stability and maintain the balm's smooth texture and efficacy.

Key Ingredients	Indicative Dosage (% w/w)
Beeswax	20.00%
Shea Butter	15.00%
Hydrogenated Polyisobutene	15.00%
Caprylic/Capric Triglyceride	10.00%
Jojoba Oil	10.00%
Castor Oil	8.00%
Glycerin	5.00%
Sodium Hyaluronate	0.50%
Tocopherol (Vitamin E)	1.00%
Flavor/Fragrance (optional)	0.50%
Microcrystalline Wax	5.00%



Hair shampoo

When adding Sodium Hyaluronate to a hair shampoo formulation, dissolve it first in deionized water at room temperature to prevent clumping.

Key Ingredients	Indicative Dosage (% w/w)
Sodium Laureth Sulfate (SLES)	15%
Cocamidopropyl Betaine	5%
Sodium Chloride	1%
Glycerin	3%
Sodium Hyaluronate	0.5%
Hydroxypropyl Guar Hydroxypropyltrimonium Chloride	0.5%
Phenoxyethanol	0.8%
Water	70-80%
Citric Acid, Sodium Hydroxide, Fragrance	

Lipstick

Use encapsulated or oil-dispersible Sodium Hyaluronate to enhance compatibility with the anhydrous lipstick base. Incorporate it during the final blending stage to ensure even distribution without affecting the product's texture.

Key Ingredients	Indicative Dosage (% w/w)
Castor Oil	40%
Candelilla Wax	20%
Beeswax	8%
Carnauba Wax	4%
Isopropyl Myristate	5%
Hydrogenated Polyisobutene	10%
Encapsulated Sodium Hyaluronate (1%)	2%
Vitamin E Acetate (Tocopheryl Acetate)	0.5%
Pigments, Flavor / Fragrance	

3. Products

Products	Authorized dosage %
Sunscreen Lotions, Creams	0.1-2%
Skin Care Creams, Lotions	0.1-2%



Products	Authorized dosage %
Lip stick/balm	0.01-0.4%

4. Grade Comparison Summary

Parameter	Cosmetic Grade
Purity (Assay, dry basis)	≥ 90%
Appearance	White to off-white powder
Solubility in Water	Fully soluble
Regulatory Compliance	INCI listed, FDA-compliant
Typical Applications	Creams, lotions, serums, masks

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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