

1. PRODUCT INFORMATION

Product Name:	Sodium Hyaluronate
INCI Name:	Sodium Hyaluronate
CAS No.:	9067-32-7
Grade:	Cosmetic Grade
Molecular Weight:	50–100 kDa
Shelf Life:	24 months

2. PRODUCT DESCRIPTION

Sodium Hyaluronate is a water-binding polysaccharide raw material with high water-retention capacity and good biocompatibility.

This 50–100 kDa molecular-weight grade is suitable for cosmetic formulations designed to support skin hydration and a smooth skin feel.

3. TYPICAL TECHNICAL PROPERTIES

Appearance	White Powder
Glucuronic Acid	≥45.0%
Assay	≥99.0%
Molecular Weight	50–100 kDa
Loss on Drying	≤5.0%
Heavy Metals	≤5.0 ppm
Arsenic (As)	≤1.0 ppm
Lead (Pb)	≤1.0 ppm
Cadmium (Cd)	≤1.0 ppm
Mercury (Hg)	≤1.0 ppm
Total Plate Count	≤1,000 cfu/g
Yeast & Mould	≤100 cfu/g
E. coli	Negative
Salmonella	Negative

4. PHYSICAL & CHEMICAL PROPERTIES

Solubility:	Soluble in water; insoluble in oil and ethanol
Viscosity:	High viscosity when dissolved in water
Boiling Point:	Decomposes before boiling
pH	6.0-7.5 (aqueous solution)
Volatility:	Negligible

Formulation pH: The recommended stable pH range for finished cosmetic formulations is **5.5–7.5**. Outside this range, particularly below pH 5.0 or above pH 8.0, molecular-chain degradation may gradually occur during shelf life.

5. FUNCTIONS & APPLICATIONS

Humectant: Supports moisture retention and helps reduce water loss.

Skin Conditioning: Supports a soft and smooth skin feel.

Film Forming: Forms a moisturising film on the skin surface.

Applications: Serums/essences, toners, facial masks, creams, lotions and eye-care cosmetic formulations.

Recommended Use Level: 0.05–0.3% w/w in finished cosmetic formulations.

Suggested Starting Level: 0.1% w/w.

6. STORAGE & HANDLING

Store in a sealed, cool and dry place away from strong light and heat.

Avoid moisture absorption. Seal tightly after sampling or use.

No special handling requirements are specified for normal use.

7. PROCESSING & INCORPORATION GUIDELINES

Temperature:

Recommended addition temperature: 40–60°C. Maximum processing temperature: ≤80°C. Prolonged heating above 80°C may cause molecular-weight degradation and viscosity reduction.

Hydration:

Pre-dispersion is preferred. Disperse the powder evenly into cold water or the aqueous phase with moderate stirring (300–500 rpm) to minimise lump formation.

Allow approximately 2–4 hours hydration at room temperature with gentle mixing.

8. SAFETY PROFILE

The supplier describes Sodium Hyaluronate as non-toxic and non-irritating to human skin at normal application levels. Refer to the Safety Data Sheet (SDS) for detailed safety, handling and transport information.

9. FORMULATION LIMITATIONS & COMPATIBILITY

Electrolytes: High concentrations of salts may reduce viscosity; low electrolyte concentrations are generally acceptable.

Cationic Ingredients: Strong cationic surfactants and cationic polymers may form complexes or precipitates when directly combined at high concentrations.

Surfactants: Compatible with most non-ionic and mild anionic surfactants. High levels of strong anionic surfactants may affect viscosity.

Acids & Alkalis: Avoid strong acids, strong alkalis and extreme pH conditions.

Other Polymers: Compatible with most neutral and anionic polymers, including Xanthan Gum and Carbomer.

High Shear: Extended high-shear homogenisation may reduce molecular weight and viscosity.

10. COMPOSITION STATEMENT

This material is 100% Sodium Hyaluronate powder.

No carriers, fillers, preservatives, solvents or other additives are incorporated.

11. REGULATORY STATUS

Sodium Hyaluronate is supplied as a cosmetic-grade raw material intended for use in cosmetic and personal care formulations. The formulator is responsible for assessing suitability and compliance of the finished product for its intended market.

DOCUMENT CONTROL

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