

CERTIFICATE OF ANALYSIS & SAFETY DATA SHEET

PRODUCT: Hyaluronic acid brute

INCI: Sodium hyaluronate

COUNTRY OF ORIGIN: France

USAGE: Cosmetic use only

Physical & chemical data / Specification

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White or almost white, very hygroscopic Powder or fibrous aggregate	Complies
Odor	Odorless	Complies
Solubility	Sparingly soluble or soluble in water, practically insoluble in acetone and in Anhydrous ethanol	Complies
Identification A.	Infrared absorption spectrophotometry	Complies
Identification B.	It gives reaction (a) of sodium	Complies
Sodium hyaluronate	≥ 95 %	98,5 %
Appearance of solution	$A_{600nm} \leq 0.01$	Complies
Nucleic Acids	$A_{600nm} \leq 0.5$	Complies
pH	5.0 – 8.5	6.6
Molecular Weight	Measured value	10,000 Da
Intrinsic	Measured value	0.47dL/g
Protein	≤ 0.1 %	0.02 %
Loss on drying	≤ 10.0 %	6.2 %
Chlorides	≤ 0.5 %	Complies
Iron	≤ 80 ppm	<80 ppm
TAMC	≤ 100 CFU/g	Complies
Staphylococcus aureus	Negative/g	Negative
Pseudomonas aeruginosa	Negative/g	Negative

COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Sodium hyaluronate	9067-32-7	618-620-0	≥ 95 %

HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification:	Not classified as dangerous goods.
GHS Label elements, including precautionary statements:	Signal: Not applicable
Hazard statement(s)	Not applicable.
Precautionary statement(s)	Not applicable.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eyes: Use tightly sealed goggles.

Skin: If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

Respiratory: In case of insufficient ventilation, wear respiratory equipment. Mask type N95 or P1

FIRST AID MEASURES

Eye contact: Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact: Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

Inhalation: If inhaled, removed to fresh air. Get medical attention if symptoms appear.

Ingestion: Rinse mouth with water

PHYSICAL AND CHEMICAL PROPERTIES

Solubility	Soluble in water
Flash point	Not available
pH	5.0 – 8.5
Melting/freezing Point	Not available
Flammability (solid, gas)	Not available

HANDLING AND STORAGE

Precautions for safe handling: No direct lighting. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Conditions for safe storage, including any incompatibilities: Provide local exhaust or general room ventilation to minimize dust and/or vapor concentrations. Keep container closed when not in use. Recommended storage temperature is 2 – 10 °C

FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide, alcohol-resistant foam, dry powder or water spray

Special protective equipment and precautions for fire-fighters: Wear proper protective equipment. Exercise caution when fighting any chemical fire.

Special hazards arising from the substance or its combustible products: Hazardous decomposition products may be formed at extreme heat or if burned.

Resulting gases: Not known

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Avoid dust formation. Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and materials for containment and cleaning up: Absorbed with sand or non-combustible absorbent. Keep in suitable, closed containers for disposal.

STABILITY AND REACTIVITY

Reactivity: This material presents no significant reactivity hazard.

Chemical stability: It is stable under normal storage and operating conditions such as room temperature or airtight containers and is easily degraded into small molecules under high temperature, acidic or alkaline environments.

Possibility of hazardous reactions: No data available

Conditions to avoid: Avoid exposure to sunlight, avoid contact with open flames and high heat; do not store in the same place as toxic, harmful, odorous, volatile, and corrosive items.

Incompatible materials: Avoid mixing with substances that are prone to decomposition and denaturation, such as strong oxidizing agents, strong reducing agents, cationic surfactants, strong acids, and strong alkalis.

Hazardous decomposition products: Other decomposition products - no data available.

TOXICOLOGICAL INFORMATION

Acute toxicity: No acute toxicity

Other information on acute toxicity: No skin irritation or corrosion

Carcinogenicity: Not carcinogenic

Skin contact: No skin irritation or corrosion

Eye contact: No eye irritation

Inhalation: May be uncomfortable if inhaled

Ingestion: The product is highly hygroscopic and may cause respiratory discomfort

ECOLOGICAL INFORMATION

Ecotoxicity: No ecological toxicity, degradable in nature

Persistence and degradability: Can be degraded and decomposed by microorganisms.

Bio - accumulative potential: Not available.

Mobility in soil: Not available.

Other adverse effects: Not available.

TRANSPORT INFORMATION

NOT DANGEROUS

CANADIAN CLASSIFICATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.