

HYALURONIC ACID

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: Hyaluronic Acid
 INCI Name: Hyaluronic Acid
 Chemical Name: Hyaluronic acid sodium salt sodium hyaluronate
 CAS / EINECS Number: 9067-32-7 / 9067-32-7
 Origin: Biotechnologically produced; main sources for fermentation are glucose, soy peptone and yeast extract

2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point:	not available
Specific Gravity, H ₂ O= 1:	Density: 30 - 200 kg/m ³
Vapor Pressure, mmHg:	not applicable
Vapor Density, Air= 1:	not available
Evaporation Rate:	not available
Viscosity:	not applicable
Solubility in Water:	easily soluble in cold water
RVOC:	not applicable
Appearance & Odor:	white powder, odorless

3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions
 Incompatibility: none known
 Hazardous Decomposition: Products of combustion: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂), and metallic oxides
 Hazardous Polymerisation: will not occur

4. HANDLING & STORAGE

Store in closed containers at a cool place protected from humidity. Keep away from oxidizing agents, excessive heat, and frost. Store and use in well ventilated areas. Do not store or use near heat, spark, or flamer; also store out of sun. Do not puncture, drag, or slide this container. Drum is not pressure vessel; never use pressure to empty.

5. ACCIDENTAL RELEASE MEASURES

Spill Clean-up Procedures: Remove sources of ignition, contain spill to smallest area possible. Stop leak if possible. Pick up small spills with absorbent materials such as paper towels. "Oil dry", sand or dirt. Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: If vapors or mists are generated, wear a NIOSH approved organic vapor/mist respirator.
 Protective Clothing: Safety glasses, goggles, or face shield recommended to protect eyes from mists, dusts or splashing. PVC coated gloves recommended to prevent skin contact.
 Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

7. HAZARDS IDENTIFICATION

Inhalation: Inhalation of mists or dusts of the products may be slightly irritating to respiratory system

Eye Contact: May cause irritation. Irrigate eye with water for at least 15 to 20 minutes. Seek medical attention if symptoms persist.
 Skin Contact: Not expected to be a primary skin irritant.
 Prolonged or excessive skin contact with this product may cause mild skin irritation.

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. If irritation persists get medical attention.
 Skin: Wash exposed areas of the body with soap and water.
 Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. seek medical attention if symptoms persist.
 Ingestion: Rinse out mouth and drink lots of water. If unusual symptoms are observed, seek medical advice

9. FIRE FIGHTING MEASURES

Flammability: May be combustible at high temperature. Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.
 Extinguishing Media: Dry chemical, foam, carbon dioxide, water spray. Water stream may splash burning liquid and spread fire.
 Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

10. TOXICOLOGICAL INFORMATION

Oral LD 50: No data available
 Carcinogenic & Mutagenic Effects: No data available.
 Effects on Humans: May cause skin & eye irritation, but no information regarding irritation was found.

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

12. TRANSPORT INFORMATION

DOT Proper Shipping Name: Not classified.
 ADR/ RIC Code/ Class: Not classified
 Maritime Transport IMDG Code/ Class : Not classified
 Air Transport IATA Code/ Class : Not classified

13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

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