

MATERIAL SAFETY DATA SHEET

1. Product and company identification

Product name: CELLINK
Chemical family: Natural polysaccharides and sugar.
General use: As bioink in 3D Bioprinting, cell encapsulation and delivery, tissue engineering and regenerative medicine, biomedical devices, drug delivery. For research and development use only. Not for drug, household, or other uses.
Manufacturer: CELLINK AB
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2. Hazards identification

Potential health effects: No significant health effects expected.

3. Composition/information on ingredients

CAS No.	Chemical name	EC No.	EC Class
9004-34-6	Cellulose	None	Not classified as hazardous
9005-38-3	Sodium alginate	None	Not classified as hazardous
69-65-8	D-mannitol	None	Not classified as hazardous
7732-18-5	Water	None	Not classified as hazardous

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4. First aid measures

Eyes:	Irrigate with clean water. Get medical attention if irritation occurs and persists.
Skin:	Wash with soap and water. Get medical attention if irritation occurs and persists.
Ingestion:	Drink 1 to 2 glasses of water. If any discomfort persists, obtain medical attention.
Inhalation:	Remove to fresh air. If any breathing difficulty or discomfort occurs and persist, obtain medical attention.
Note to Medical Doctor:	This product has low oral and inhalation toxicity. It is not skin sensitizer and is non-irritating to the skin and eyes.

5. Fire fighting measurements

Extinguishing Media:	Water, foam, dry chemical, CO ₂ .
Fire/Explosion Hazards:	None.
Fire Fighting Procedures:	None.
Flammable Limits:	No data available.

6. Accidental release measurements

In case material is released or spilled:	Sweep or vacuum. Note that slip hazard can develop if material spilled on the floor.
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7. Handling and storage

To protect the quality of the product:	Store in tight container in a cool place. Never freeze.
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8. Exposure controls/personal protection

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves. Use chemical splash goggles and face shield. Use latex or equivalent gloves.

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9. Physical and chemical properties

Odor:	Odorless.
Appearance:	White viscous liquid.
Autoignition temperature:	No data available.
Boiling point:	Around 100°C.
Melting point:	N/A.
Flash point:	N/A.
Evaporation rate:	N/A.
Percent volatile:	N/A.
pH:	5-8.
Solubility in water:	Water dispersion and solution.
Vapor density:	N/A.
Vapor pressure:	N/A.

10: Stability and reactivity

Conditions to avoid:	Freezing.
Stability:	Stable.
Polymerization:	Will not occur.
Hazardous decomposition products:	None.

11: Toxicological information

Eye effect:	None.
Skin effect:	None.
Dermal LD50:	No data available.
Oral LD50:	No data available.
Inhalation LD50:	No data available.
Sensitization:	No sensitization.
Acute effect from overexposure:	No data available.
Chronic effect from overexposure:	No data available for the formulation.
Carcinogenicity:	
NTP:	Not listed.
IARC:	Not listed.
OSHA:	Not listed.
Other:	ACGHI: Not listed.

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12. Ecological information

Environmental data:

Cellulose and Sodium Alginate are biodegradable (outside the body) and are not expected to have any environmental effects.

Ecotoxicological information:

No data available.

13: Disposal consideration

Disposal method:

Handle as non-hazard material. If mixed with cells, handle as biohazard material. Always dispose of waste in accordance with all applicable Federal, State and local regulations. Rinse empty containers thoroughly before recycling.

14: Transport information

International maritime dangerous goods (IMDG):

Not regulated.

European agreement concerning the international carriage of dangerous goods by road (ADR):

Not regulated.

U.S. Department of transportation (DOT):

Marine pollutant:

None.

Additional information:

Not listed in title 49 of CFR as a hazardous material.

Other information:

N/A.

15: Regulatory information

International regulations:

EC: Harmful; R42/43, May cause sensitization by inhalation and skin contact. S36, Wear suitable protective clothing.

US Federal regulations:

Material(s) listed are exempt from the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory when supplied for research and development purposes or used under the Supervision of a technically qualified individual as defined by 40 CFR720.3.

The health risks have not been fully determined.

State regulations:

Based upon available information, material(s) listed are not known to be regulated by any state or listed on any "Right To Know" Hazardous Substance List.

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16: Other information

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