

Safety Data Sheet

LifeSupport™

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LifeSupport™
Product number: D16110022047, D16110022048, D16110022049, D16110022050
Brand: CELLINK*
General use: For use as a support bath for freeform reversible embedding of suspended hydrogels (FRESH) 3D bioprinting. Not for human use; for research only.

Company Address:

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2. HAZARDS IDENTIFICATION

Potential Health Effects: Not a hazardous substance or mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS#	EC No.	EC Class
Gelatin Methacrylate	9000-70-8	232-554-6	Not classified as hazardous
Gum Arabic	9000-01-5	232-519-5	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Resp. Sens. 1 H334 STOT SE 3 H335

4. FIRST AID MEASURES

In case of eye contact: Flush eyes with water as a precaution.

In case of skin contact: Wash with soap and plenty of water.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

If inhaled: If breathed in, move person into fresh air. If any breathing difficulty or discomfort occurs and persist, obtain medical attention.

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Notes 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 MEASURES

Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Fire/explosion hazards: No data available.

Firefighting procedures: Wear self-contained breathing apparatus for firefighting if necessary.

Flammable limits: No data available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Avoid dust formation. Avoid inhaling vapors, mist, or gas.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Provide appropriate exhaust ventilation where dust is formed. Take normal measures for preventive fire protection.

Conditions for safe storage: Keep container closed tightly in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: N/A.

Personal protective equipment

Eyes and face: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Respiratory: Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protective clothing: Choose body protection in relation to the type, concentration, and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Gloves: Handle with gloves. Inspect gloves prior to use. Use proper glove removal technique (without touching gloves' outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow powder.

Upper/lower flammability: N/A.

Odor: N/A.

Vapor pressure: N/A.

Odor threshold:	N/A.
Vapor density:	N/A.
pH:	N/A.
Relative density:	N/A.
Melting point:	N/A.
Solubility in water:	N/A.
Boiling point:	N/A.
Flash point:	N/A.
Evaporation rate:	N/A.
Flammability:	N/A.
Partition coefficient:	N/A.
Autoignition temp:	N/A.
Decomposition temp:	N/A.
Viscosity:	N/A.

10. STABILITY AND REACTIVITY

Conditions to avoid:	No data available.
Reactivity:	No data available.
Stability:	Stable in recommended storage conditions.
Possibility of hazardous reactions:	No data available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	No data available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: No data available.

Oral LD50: No data available.

Inhalation: No data available.

Dermal: No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity:

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available.

Specific target organ toxicity – single exposure: No data available.

Specific target organ toxicity – repeated exposure: No data available.

Aspiration hazard: No data available.

Additional information: RTECS: LX8580000.

12. ECOLOGICAL INFORMATION

Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment is not required or was not conducted.

Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product: Offer surplus and nonrecyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT): Not dangerous goods.

International Maritime Dangerous Goods (IMDG): Not dangerous goods.

ADR – European agreement concerning the international carriage of dangerous goods by road

Additional information: Not regulated.

Other information: N/A

15. REGULATORY INFORMATION

SARA 302 components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (*de minimis*) reporting levels established by SARA Title III, Section 313.

SARA 311/312 hazards: No SARA Hazards.

Massachusetts Right to Know components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know components: Gelatin.

New Jersey Right to Know components: Gelatin.

California Prop. 65 components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS rating

Health hazard: 0.

Chronic health hazard: 0.

Flammability: 0.

Physical hazard: 0.

NFPA rating

Health hazard: 0.

Fire hazard: 0.

Reactivity hazard: 0.