



428 Oakmead Parkway
Sunnyvale, CA 94085
Main: (800) 251-8905
URL: www.clearlightbiotechnologies.com
Email: laborers@clearlightbiotech.com

SAFETY DATA SHEET

Version 1

Section 1: Identification of Product and Company

1.1 Product Identifiers

Product Name: **CLARITY Low Lipid Embedding Solution**
Manufacturer: ClearLight Biotechnologies

1.2 Relevant identified uses of substance and uses advised against

Identified uses: Laboratory reagent, For Research Use Only.

1.3 Details of the supplier of the safety data sheet

Company: ClearLight Biotechnologies, Inc.
428 Oakmead Parkway
Sunnyvale, CA 94085
Telephone: (800) 251-8905
Email address: contact@clearlightbiotech.com

1.4 Emergency telephone number

Emergency phone: (800) 251-8905

Section 2: Hazards identification

2.1 Classification of substance

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 3), H316
Eye irritation (Category 2B), H320
Skin sensitization (Category 1), H317
Germ cell mutagenicity (Category 1B), H340
Carcinogenicity (Category 1B), H350
Reproductive toxicity (Category 2), H361
Specific target organ toxicity, repeated exposure (Category 2), H373
Target Organs - Liver, Kidney, Blood.

2.2 GHS Label elements, including precautionary statements



Pictogram

Signal Word: Danger

Hazard Statement(s):

H316: Causes mild skin irritation.
H320: Causes eye irritation.
H317: May cause an allergic skin reaction.
H340: May cause genetic defects.
H350: May cause cancer.
H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to organs (Liver, Kidney, Blood) through prolonged or repeated exposure.

Prevention Statement(s):

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe vapors/spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves and clothing.
P281: Use Personal protective equipment as required.

Response Statement(s):

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P314: Get medical advice/attention if you feel unwell.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P363: Wash contaminated clothing before reuse.

Storage Statement(s):

P405: Store locked up.

Disposal Statement(s):



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P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

Section 3: Composition/information on ingredients

3.1 Substance

4	Component	CAS Number	Concentration
	40% Acrylamide	79-06-1	0-40% ¹
	2% Bis-acrylamide	110-26-9	0-40% ²
	10X PBS		0-40% ³

^{1, 2, 3} - Exact concentrations withheld as trade secrets

Section 4: First Aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Section 5: Firefighting measures



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- 5.1 Extinguishing media**
Suitable extinguishing media
Use firefighting measures that suit the environment.
 - 5.2 Special hazards arising from the substance or mixture**
Carbon oxides
 - 5.3 Advice for firefighters**
Wear self-contained breathing apparatus for firefighting if necessary.
 - 5.4 Further Information**
No data available.
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Section 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.
 - 6.2 Environmental precautions**
Dilute with plenty of water. Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
 - 6.3 Methods and materials for containment and cleaning up**
Soak up liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Keep in suitable, closed containers for disposal.
 - 6.4 Reference to other sections**
For disposal see section 13.
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Section 7: Handling and storage

- 7.1 Precautions for safe handling**
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist and ensure good ventilation at the workplace. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves. Take off contaminated clothing and wash before reuse. Collect spillage.
- 7.2 Conditions for safe storage, including any incompatibilities**



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Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Aside from the uses mentioned in section 1.2, no other specific uses are specified.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

Component CAS-No.

Acrylamide 79-06-1 TWA 0.03 mg/m³ USA. ACGIH Threshold Limit Values (TLV) Remarks Central Nervous System Impairment Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption.
TWA 0.03 mg/m³ USA. NIOSH Recommended Exposure Limits Potential Occupational Carcinogen See Appendix A Potential for dermal absorption TWA 0.3 mg/m³ USA.
Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

8.2 Exposure controls

Personal protective equipment

Skin protection

Handle with gloves and dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands after use or handling.

Recommended glove material: Nitrile rubber

Advisory recommendation only.

Eye protection

Safety goggles or glasses.

Body Protection

Lightweight protective clothing.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Clear liquid



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Odor:	No data available
Odor Threshold:	No data available
pH as supplied:	Not applicable
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Water solubility:	No data available
Partition coefficient:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2 Other safety information

No data available.

Section 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.



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10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Hazardous decomposition products: Carbon monoxide.

Other decomposition products: No data available.

In the event of fire: see section 5.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product Information

Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 5,000 mg/kg.

Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 5,000 mg/kg.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: 79-06-1 Acrylamide 2A

NTP: 79-06-1 Acrylamide R

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available



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Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not Conducted.

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.



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Section 14: Transport information

DOT (US)

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

Section 15: Regulatory information

SARA 302 Components

79-06-1 Acrylamide

SARA 313 Components

79-06-1 Acrylamide

SARA 311/312 Hazards

Acute / Chronic Health Hazard due to Carcinogenicity

California Prop. 65 Components

CAS 79-06-1 is listed as a Cancer and Reproductive hazard on the Prop 65 lists.

Section 16: Other information

Further Information:

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Date of Preparation/Last Revision: October 7, 2020
