

Email: laborders@clearlightbiotech.com

# SAFETY DATA SHEET

Version 1

# Section 1: Identification of Product and Company

1.1	Product Identifiers					
	Product Name:	CLARITY High Lipid Embedding Solution				
	Manufacturer:	ClearLight Biotechnologies				
1.2	· · · · · · · · · · · · · · · · · · ·					
	Identified uses:	Laboratory reagent, For Research Use Only.				
1.3	Details of the suppl	ier of the safety data sheet				
1.3	<b>Details of the supp</b> Company:	<b>ier of the safety data sheet</b> ClearLight Biotechnologies, Inc.				
1.3		•				
1.3	Company:	ClearLight Biotechnologies, Inc. 428 Oakmead Parkway Sunnyvale, CA 94085				
1.3	Company: Telephone:	ClearLight Biotechnologies, Inc. 428 Oakmead Parkway Sunnyvale, CA 94085 (800) 251-8905				
1.3	Company:	ClearLight Biotechnologies, Inc. 428 Oakmead Parkway Sunnyvale, CA 94085				

**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) Acute toxicity, Oral (Category 5), H303 Acute toxicity, Dermal (Category 5), H313 Skin irritation (Category 3), H316 Eye irritation (Category 2B), H320 Skin sensitization (Category 1B), 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):

H303: May be harmful if swallowed.

H313: May be harmful in contact with skin.

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.

P312: Call a Poison Center or doctor/physician if you feel unwell.

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):

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

CAS Number	Concentration
79-06-1	0-40% <sup>1</sup>
110-26-9	0-40% <sup>2</sup>
	0-40% <sup>3</sup>
	79-06-1

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

- 5.1 Extinguishing mediaSuitable extinguishing mediaUse 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.

### 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.

### 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

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.



# 9.1 Information on basic physical and chemical properties

Appearance:	Clear liquid				
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:					
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.

- **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	Category 5. ATE = 2,500 – 3,500 mg/kg.
Dermal LD50	Category 5. ATE = 28,000 – 29,000 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



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.



### 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:**

©2020 ClearLight Biotechnologies, Inc. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. It is the responsibility of the user to determine the application of this data to the necessary safety precautions. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. ClearLight Biotechnologies, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See www.clearlighbiotechnologies.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header of this document may temporarily not visually match the product purchased in cases of brand transition. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact us at contact@clearlightbiotech.com.



Date of Preparation/Last Revision: October 7, 2020