

LBSO-RD-SDS-HS-001

# SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### **Identification**

Product Name X-CLARITY™ Hydrogel Solution

Product Number C13103

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

**Manufacturer** Logos Biosystems, Inc.

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For research use only. Not intended for human or animal diagnostic or therapeutic use.

### 2. HAZARDS IDENTIFICATION

### [GHS classification]

# Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Eye Irrit. 2A H319 Causes serious eye irritation.

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

#### Label elements

Labelling according Regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H302 + H332 - Harmful if swallowed or inhaled.

H315 – Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 – Causes serious eye irritation.

H340 - May cause genetic defects.

H350 - May cause cancer.

H361 – Suspected of damaging fertility or the unborn child.

H372 – Causes damage to organs through prolonged or repeated exposure if swallowed.

H402 - Harmful to aquatic life.

#### Precautionary statements

P201 – Obtain special instructions before use. (H340) (H350) (H361)

P202 – Do not handle until all safety precautions have been read and understood. (H340) (H350) (H361)

P260 – Do not breathe dust/fume/gas/mist/vapors/spray. (H372) (H3317, H332 – P261: omitted b/c of P260)

P264 – Wash skin thoroughly after handling. (H302) (H315) (H319) (H372)

P270 – Do not eat, drink, or smoke when using this product. (H302) (H372)

P271 – Use only outdoors or in a well-ventilated area. (H332)

P272 - Contaminated work clothing should not be allowed out of the workplace. (H317)

P273 – Avoid release to the environment. (H402)

P280 – Wear protective gloves, eyewear, and clothing. (H315) (H319) (H340) (H350) (H361)

P301 + P312 + P330 – IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. (H302)

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. (H315)

P304 + P312 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician immediately if you feel unwell. (H332)

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. (H319)

P308 + P313 – IF exposed or concerned: Get medical advice/attention. (H340) (H350) (H361)

(H372 – P314: omitted b/c of P308 + P313 and other more specific precautionary statements)

P332 + P313 – If skin irritation or rash occurs: Get medical advice/attention. (H315)

P337 + P313 – If eye irritation persists: Get medical advice/attention. (H319)

P362 + P364 – Take off contaminated clothing and wash before reuse. (H315)

P405 – Store locked up. (H340) (H350) (H361)

P501 – Dispose of contents/container to an approved waste disposal plant. (H302) (H340) (H350) (H361) (H372) (H402)

#### Other hazards

None

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### **Mixtures**

Synonyms	Formula	CAS No.	Weight %
Acrylamide	C₃H₅NO	79-06-1	3.5-5.5%
Sodium chloride	NaCl	7647-14-5	0.5-1%
Potassium chloride	KCI	7447-40-7	0.01-0.02%
Sodium hydrogen phosphate	NA <sub>2</sub> HPO <sub>4</sub>	7558-79-4	0.01-0.02%
Potassium dihydrogen phosphate	KH₂PO₄	7778-77-0	0.02-0.04%

### 4. FIRST AID MEASURES

### **Description of first aid measures**

In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Immediate medical attention is required
After inhalation	Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Centre immediately
After swallowing	Induce vomiting and call for medical help.
Indication of any immediate medical attention and special treatment needed	No further relevant information available

# 5. FIRE-FIGHTING MEASURES

#### **Extinguishing media**

### Suitable extinguishing media

Use CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

# Special hazards arising from the substances or mixture

Carbon oxides, nitrogen oxide

### **Advice of fire-fighters**

### **Protective equipment**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### **Further information**

No further relevant information available

# **6. ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Use personal protective equipment

#### **Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

### Methods and materials for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

# Reference to other sections

No further relevant information available

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Always wear recommended Personal Protective Equipment (mask, glove).

### Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition, direct sunlight, and high temperature.

### Specific end use(s)

No further relevant information available

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

Components with workplace control parameters

#### **Exposure controls**

### **Appropriate engineering controls**

Avoid contact eyes, skin. Wash hands immediately after handling

### Personal protective equipment

Respiratory protection	Hood	
Hand protection	Protective gloves	
Eye protection	Safety glasses	
Skin and Body protection	Handle with Protective gloves and wear lab clothing	
Control of Environmental exposure	Hood	

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	Form: liquid
Odour	Odourless
Odour Threshold	No data available

рН	[7.6]
Melting point/freezing point	No data available
Initial boiling point and boiling range	100℃
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
Vapour pressure	No data available
Vapour density	No data available
Specific Gravity/Relative density	No data available
Solubility	Fully miscible
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Dynamic viscosity	No data available

### 10. STABILITY AND REACTIVITY

### **Stability**

**Stability** Stable under recommended storage conditions

# Possibility of hazardous reactions

No further relevant information available

### **Conditions to avoid**

No further relevant information available

### **Incompatible materials**

No further relevant information available

# **Hazardous decomposition products**

Carbon monoxide

# 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

Neuro toxic

#### Skin corrosion/irritation

Irritant to skin and mucous membranes

# Serious eye damage/eye irritation

Irritant to eye

### Respiratory or skin sensitization

2

### **Germ cell mutagenicity**

1B

#### Carcinogenicity

1R

#### Reproductive toxicity

No further relevant information available

#### Specific target organ toxicity - single exposure

No further relevant information available

### Specific target organ toxicity - repeated exposure

Peripheral nervous system

#### **Aspiration hazard**

No further relevant information available

#### Potential health effects

No further relevant information available

#### **Additional Information**

No further relevant information available

#### 12. ECOLOGICAL INFORMATION

#### **Toxicity**

No further relevant information available

### Persistence and degradability

No further relevant information available

### **Bioaccumulative potential**

No further relevant information available

#### Mobility in soil

No further relevant information available

# Results of PBT and vPvB assessment

No data available

### Other adverse effects

No further relevant information available

# 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

# **Product**

Hand over to hazardous waste disposer

#### Contaminated packaging

#### 14. TRANSPORT INFORMATION

#### **IMDG**

UN number: 3426 Class: 6.1 Packing group: III, EMS Number: F-A, S-A

Proper shipping name: ACRYLAMIDE, LIQUID

Marine pollutant: No

**IATA** 

UN number: 3426 Class: 6.1 Packing group: III Proper shipping name: Acrylamide, Liquid

#### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture Water hazard class: class 3, Substances of very high concern: acrylamide (79-06-1)

#### **Chemical safety assessment**

A chemical safety assessment has not been carried out

#### 16. OTHER INFORMATION

#### **Further information**

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End of Safety Data Sheet