

## 1: Identification of substance / mixture

### 1. Product Identifier

Mixture

Product Name **Lithium Loading Buffer**  
Product Code 80-2038-10  
CAS Number  
Other Names  
IUPAC  
MFCN Number  
EC/EINECS  
REACH Number

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

Research and Development

### 3. Details of the supplier of the safety data sheet

Biochrom Ltd  
1020, Cambourne Business Park  
Cambourne  
Cambridge  
CB23 6DW  
United Kingdom

Telephone: +44 (0)1223 423723  
Fax: +44 (0)1223 420164  
Email: enquiries@biochrom.co.uk



### 4. Emergency telephone number

+44 (0)1223 427890 -

## 2. Hazards Identification

### 1. Classification of the substance or mixture

H319 Eye Irrit. 2 R36, R36/37, R36/38, R36/37/38

No Resource File

### 2. Label elements

Signal Word **Warning**



### Hazard Statements

H319 Causes serious eye irritation.

### Precautionary Phrases

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

### 3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

## 3. Composition / Information on Ingredients

### 1. Substances

No Resource File

### 2. Mixtures

Concentration	Product Name	CAS Number	EC/EINECS
94.3%	Water[]	7732-18-5	231-791-2
2.0%	Thiodiglycol[]	111-48-8	203-874-3
1.8%	Hydrochloric acid[]	7647-01-0	231-791-2

1.0%	Citric acid[]	77-92-9	201-069-1
0.8%	Lithium hydroxide[]	1310-66-3	215-183-4
0.1%	Phenol[]	108-95-2	203-632-7

## 4. First Aid Measures

### 1. Description of first aid measures

<i>Skin Contact</i>	Wash immediately with plenty of soap and water.
<i>Eye Contact</i>	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313: If eye irritation persists: Get medical advice/attention.
<i>Ingestion</i>	Do not induce vomiting. Wash out mouth with water. Consult a doctor.
<i>Inhalation</i>	Supply fresh air; consult a doctor in case of complaints.

### 2. Most important symptoms and effects

There may be irritation and redness.

### 3. Indication of any immediate medical attention

No additional measures required

## 5. Firefighting measures

### 1. Extinguishing Media

<i>Suitable</i>	Suitable extinguishing media for surrounding fire should be used.
<i>Unsuitable</i>	N/A

### 2. Special Hazards arising from the substance or mixture

N/A

### 3. Advice for Fire Fighters

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

## 6. Accidental Release Measures

### 1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

### 2. Environmental Precautions

Do not discharge into drains or rivers.  
Do not allow to enter sewers / surface or ground water.

### 3. Methods & Materials

Mix with sand or vermiculite.  
Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 4. Preventing the occurrence of secondary hazards.

None

## 7. Handling and Storage

### 1. Personal Precautions

<i>Safe Handling</i>	Ensure there is sufficient ventilation of the area. P264: Wash hands thoroughly after handling.
<i>Protection against explosions and fires</i>	No special requirements

## 2. Conditions for safe storage, including any incompatibilities

<i>Managing Storage Risks</i>	Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight.
<i>Storage Controls</i>	No special requirements
<i>Maintaining Integrity</i>	No special requirements
<i>Other advice</i>	No further information available.

## 3. Specific End Uses

The substance is supplied for Research and Development purposes by professionals only.

## 8. Exposure Controls/Personal Protection

### 1. Control Parameters

No Data Available

### 2. Exposure Controls

<i>General protective and hygiene measures</i>	P280: Wear protective gloves/protective clothing/eye protection/face protection.
<i>Engineering measures</i>	Ensure there is sufficient ventilation of the area.
<i>Eye / Face Protection</i>	Safety Glasses.
<i>Hand protection</i>	Nitrile gloves.
<i>Respiratory protection</i>	Respiratory protection not required.
<i>Skin protection</i>	Protective clothing.
<i>Other personal protection advice</i>	No data.

## 9. Physical and Chemical Properties

### 1. Physical and Chemical Properties

Appearance	Clear liquid
Odour	Slightly phenolic
Odour threshold	No Data Available
PH	2.20
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	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
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	Water soluble
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

### 2. Other Information

No additional information available

## 10. Stability and Reactivity

### 1. Reactivity

No unusual reactivity

### 2. Stability

Stable at room temperature.

### 3. Possibility of Hazardous Reactions

No hazardous reactions known.

### 4. Conditions to Avoid

Direct Sunlight.

### 5. Incompatible Materials

Strong oxidizing agents.

### 6. Hazardous Decomposition Products

In combustion emits toxic fumes.

## 11. Toxicology information

### 1. Information

<i>Acute Toxicity</i>	No information available
<i>Skin corrosion/irritation</i>	No information available
<i>Serious eye Damage/irritation</i>	No information available
<i>Respiratory or skin sensitisation</i>	No information available
<i>Germ Cell mutagenicity</i>	No information available
<i>Carcinogenicity</i>	No information available
<i>Reproductive toxicity</i>	No information available
<i>STOT-single exposure</i>	No information available
<i>STOT-repeated exposure</i>	No information available
<i>Aspiration hazard</i>	No information available

### 2. Additional

The toxicological properties have not been fully investigated

## 12. Ecological Information

### 1. Toxicity

No information available

### 2. Persistence and degradability

No information available

### 3. Bio-Accumulative Potential

No information available

### 4. Mobility and Soil

No information available

## 5. Results of PBT & vPvB assessment

No information available

## 6. Other adverse effects

No information available

## 13. Disposal Considerations

### 1. Waste Treatment Methods

*Disposal Operations* Consult state, local or national regulations for proper disposal.

*Disposal of Packaging* Disposal must be made according to official regulations.

## 14. Transport Information

### Air (ICAO)

1. **UN Number:**
2. **Shipping Name:** Non Hazardous
3. **Transport hazard class(es):** : Sub Class :
  
4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

### Road (ADR)

1. **UN Number:**
2. **Shipping Name:** None Hazardous
3. **Transport hazard class(es):** : Sub Class :
  
4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

### Sea (IMDG)

1. **UN Number:**
2. **Shipping Name:** Non Hazardous
3. **Transport hazard class(es):** : Sub Class :
  
4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

## 15. Safety, health, environmental and national regulations

## 1. Safety, health, environmental and national regulations:

Product is not subject to any additional regulations or provisions.

## 2. Safety Assessment

No Chemical Safety Assessment

## 16. Other Information

### 1. Other Information:

This safety data sheet complies to the requirements of Regulation (EC) No. 1907/2006  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals

### 2. Associated risk phrases according to european directive 67/548/EEC

R36	Irritating to eyes.
R36/37	Irritating to eyes and respiratory system.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.



### 3. Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text