

## 1: Identification of substance / mixture

### 1. Product Identifier

Mixture

Product Name **Lithium Loading Buffer NC**  
Product Code 80-6003-07  
CAS Number  
Other Names 5056336800567  
IUPAC  
MFCD Number  
EC/EINECS  
REACH Number Index-No

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

Laboratory Use Only

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

Biochrom Ltd  
Unit 7, Enterprise Zone, 3970 Cambridge Research Park  
Waterbeach  
Cambridge  
CB25 9PE  
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

Non Hazardous

### 2. Label elements

Non Hazardous

### Hazard Statements

Non Hazardous

### Precautionary Phrases

Non Hazardous

### 3. Other Hazards

Non Hazardous

## 3. Composition / Information on Ingredients

### 2. Mixtures

| Product Name                                  | Hazards | Concentration |
|---|---------|---------------|
| Water   |         |               |
| CAS Number: 7732-18-5<br>EC/EINECS: 231-791-2 |         | 94.3%         |
| Thiodiglycol                                  |         |               |
| CAS Number: 111-48-8<br>EC/EINECS: 203-874-3  |         | 2.0%          |
| Hydrochloric acid                             |         |               |
| CAS Number: 7647-01-0<br>EC/EINECS: 231-595-7 |         | 1.8%          |
| Citric acid                                   |         |               |

|   |  |      |
|---|--|------|
| CAS Number: 77-92-9<br>EC/EINECS: 201-069-1   |  | 1.0% |
| Lithium hydroxide                             |  |      |
| CAS Number: 1310-66-3<br>EC/EINECS: 215-183-4 |  | 0.8% |
| Phenol  |  |      |
| CAS Number: 108-95-2<br>EC/EINECS: 203-632-7  |  | 0.1% |

## 4. First Aid Measures

### 1. Description of first aid measures

- Skin Contact* Wash immediately with plenty of soap and water.
- Eye Contact* Rinse opened eye for several minutes under running water.
- Ingestion* Do not induce vomiting.  
Wash out mouth with water.  
Consult a doctor.
- Inhalation* Move to fresh air in case of accidental inhalation of vapours.

### 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

- Suitable* Suitable extinguishing media for surrounding fire should be used.
- Unsuitable* 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. |
| <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.<br>Keep container tightly closed.<br>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

For laboratory use only. To be used with Biochrom Amino Acid Analyzers.

## 8. Exposure Controls/Personal Protection

### 1. Control Parameters

No Data Available

### 2. Exposure Controls

|  |  |
|--|--|
| <i>General protective and hygiene measures</i> | The standard precautionary measures should be adhered to when handling |
| <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                             | 1.004g/mL         |
| 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      | Not oxidising     |

## 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

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### 3. Bio-Accumulative Potential

No information available

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### 4. Mobility and Soil

No information available

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### 5. Results of PBT & vPvB assessment

No information available

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### 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)

Not classified as hazardous for transport

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### Road (ADR)

Not classified as hazardous for transport

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### Sea (IMDG)

Not classified as hazardous for transport

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

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

Product is not subject to any additional regulations or provisions.

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### 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. 1272/2008

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### 3. Disclaimer

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