

## 1: Identification of substance / mixture

### 1. Product Identifier

Mixture

Product Name **Lithium Buffer 4**  
Product Code 80-2097-18  
CAS Number  
Other Names 5056336800079  
IUPAC  
MFCD Number  
EC/EINECS  
REACH Number Index-No

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

Research and Development, In Vitro Diagnostic

### 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 EC/EINECS: 231-791-2		94.6%
Lithium chloride		
CAS Number: 7447-41-8 EC/EINECS: 231-212-3		4.1%
Citric acid		
CAS Number: 77-92-9 EC/EINECS: 201-069-1		1.0%
Thiodiglycol		

CAS Number: 111-48-8 EC/EINECS: 203-874-3	0.2%
Phenol	
CAS Number: 108-95-2 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* 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

- Suitable* Suitable extinguishing media for surrounding fire should be used.
- Unsuitable* NA

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

NA

### 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

Absorb into dry earth or sand.  
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

- Safe Handling* Ensure there is sufficient ventilation of the area.
- Protection against explosions and fires* 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 and In Vitro Diagnostic purposes by professionals only. To be used on 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	Liquid
Odour	Slightly phenolic
Odour threshold	No Data Available
PH	3.50
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	1.023g/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	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

Oxidising agents.

### 6. Hazardous Decomposition Products

In combustion emits toxic fumes.

## 11. Toxicology information

### 1. Information

<i>Acute Toxicity</i>	no data
<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

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## 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

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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

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