

## 1: Identification of substance / mixture

### 1. Product Identifier

Mixture

Product Name **Sodium Loading Buffer**  
Product Code 80-2037-67  
CAS Number  
Other Names 5056336800291  
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  
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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		94.1%
Tri-sodium citrate dihydrate		
CAS Number: 6132-04-3 EC/EINECS: 200-675-3		2.0%
Thiodiglycol		
CAS Number: 111-48-8 EC/EINECS: 203-874-3		2.0%
Hydrochloric acid		

CAS Number: 7647-01-0 EC/EINECS: 231-595-7	1.8%
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

No symptoms.

### 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

- 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 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>	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	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)

Not classified as hazardous for transport

### Road (ADR)

Not classified as hazardous for transport

### 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.

### 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  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals

### 3. Disclaimer

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