

## MSDS

Version 2.0  
Revision Date: 07/29/2025

### Product and Company Identification

Product Name: RNA Storage Buffer  
Cat #: RSB-100, RSB-200  
Product Use: For Research Use Only. Not for use in diagnostic procedures  
Company: Molecular Cloning Laboratories (MCLAB)  
320 Harbor Way  
South San Francisco  
CA 94080  
Telephone: 888-MCLAB-88  
650-871-8771  
Fax: 650-871-8796

### Hazards identification

#### Emergency Overview

##### OSHA Hazards

No known OSHA hazards  
Not a dangerous substance according to GHS.

##### HMIS Classification

Health hazard: 0  
Flammability: 0  
Physical hazards: 0

##### NFPA Rating

Health hazard: 0  
Fire: 0  
Reactivity Hazard: 0

##### Potential Health Effects

Inhalation: May be harmful by inhalation.  
Skin: May cause skin irritation in susceptible persons.  
Eyes: May cause eye irritation with susceptible persons.  
Ingestion: May be harmful if swallowed.

### COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients are hazardous according to OSHA criteria.

### FIRST AID MEASURES

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Rinse with plenty of water.

#### In case of eye contact

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Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## FIREFIGHTING MEASURES

**Conditions of flammability**

Not flammable or combustible.

**Suitable extinguishing media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus and protective suit.

## ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Use personal protective equipment.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material.

## HANDLING AND STORAGE

**Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

Keep in a dry place.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

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Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Hygiene measures

General industrial hygiene practice.

## PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	Liquid
Color	Clear

### Safety data

pH	6.4
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	Soluble
Partition coefficient: n-octanol/water	no data available
Relative vapor density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

## STABILITY AND REACTIVITY

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

No data available

### Materials to avoid

No data available

### Hazardous decomposition products

None under normal use.

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**Other decomposition products**

No data available

**TOXICOLOGICAL INFORMATION**

**Acute toxicity**

None hazardous

**Other information on acute toxicity**

no data available

**Skin corrosion/irritation**

May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation**

May cause eye irritation with susceptible persons.

**Respiratory**

May be harmful by inhalation

**Germ cell mutagenicity**

None

**Carcinogenicity**

None

**Reproductive toxicity**

None

**Teratogenicity**

None

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Synergistic effects	No data available

Additional Information RTECS      Not available

**ECOLOGICAL INFORMATION**

**Toxicity**

No data available

**Persistence and degradability**

Inherently biodegradable

**Bioaccumulative potential**

Does not bioaccumulate

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## DISPOSAL CONSIDERATIONS

### **Product**

Dispose of in accordance with local regulations.

Contaminated packaging

Dispose of as unused product.

## TRANSPORT INFORMATION

### **DOT (US)**

Not dangerous goods

### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods

## REGULATORY INFORMATION

### **OSHA Hazards**

No known OSHA hazards

### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **SARA 311/312 Hazards**

No SARA Hazards

### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

## OTHER INFORMATION

Further information