

## RBC Lysis buffer

Revision date: 2017/11/01

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product number: RBC Lysis buffer

Recommended use: Laboratory Chemicals

Supplier: RBC Bioscience Corp.

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Not a hazardous substance or mixture

#### GHS Label element

Not a hazardous substance or mixture

#### Potential Health Effects:

Aggravated Medical Condition: None known.

Symptoms of Overexposure: No information available.

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Carcinogenicity

#### IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### ACGIH

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Ammonium chloride	12125-02-9	0.1~1

## 4. FIRST AID MEASURES

**General advice:**

Show this material safety data sheet to the doctor in attendance..

**If inhaled:**

Move to fresh air. If symptoms persist, call a physician.

**In case of skin contact:**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

**In case of eye contact:**

Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:**

If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:**

No information available.

**Note to Physician:**

No information available.

## 5. FIRE FIGHTING MEASURE

**Suitable Extinguishing media:**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific hazards during firefighting:**

Exposure to decomposition products may be a hazard to health.

**Hazardous combustion products:**

No hazardous combustion products are known.

**Specific extinguishing methods:**

In the event of fire and/or explosion don't breathe fumes.

**Special protective equipment for fire-fighters:**

Wear self-contained breathing apparatus for firefighting if necessary

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so.

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

Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

**Advice on safe handling:**

Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

**Conditions for safe storage**

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

## Materials to avoid

Do not store near acids.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Hand protection remarks:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact)

#### E Eye protection:

Safety glasses.

#### Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals.

#### Hygiene measures:

Keep away from food and drink. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid

Color: No data available.

Odor: characteristic.

Odor Threshold: No data available.

pH: 7.2.

Melting point/range: No data available.

Boiling point/range: No data available.

Flash point: No data available.

Evaporation rate: No data available.

Burning rate: No data available.

Upper explosion limit: No data available.

Lower explosion limit: No data available.

Vapor pressure: No data available.

Relative vapor density: No data available.

Relative density: No data available.

Density: 1.0 g/cm<sup>3</sup>.

Solubility: No data available.

Water solubility: No data available.

Solubility in other solvents: No data available.

Partition coefficient n-octanol/water: No data available.

Auto ignition temperature: No data available.

Thermal decomposition: No data available.

Viscosity: No data available.

Viscosity, dynamic: No data available.

Viscosity, kinematic: No data available.

Explosive properties: No data available.

Oxidizing properties: No data available.

## 10. STABILITY AND REACTIVITY

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: No decomposition if stored and applied as directed.

Possibility of hazardous reactions: Stable under recommended storage conditions.

Conditions to avoid: Heat, Flames and sparks.

Incompatible materials: No data available

Hazardous decomposition products: No decomposition if stored and applied as directed.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Product:

Acute oral toxicity: No data available

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

Ingredients

#### Ammonium chloride

Acute oral toxicity: LD50 Oral(Rat): 1650 mg/kg

### Skin corrosion/irritation

Product:

May cause skin irritation and/or dermatitis.

### Serious eye damage/eye irritation

Product:

Remarks: the product causes irritation of eyes, skin and mucous membranes.

### Respiratory or skin sensitization

No data available

### Germ Cell mutagenicity

No data available

### Carcinogenicity

No data available

### Reproductive toxicity

No data available

### STOT-single exposure

No data available

### STOT-repeated exposure

No data available

### Aspiration toxicity

No data available

## Further information

No data available

## 12. Ecological Information

### Eco toxicity

#### Product

Toxicity to fish: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

#### Ingredients

##### **Ammonium chloride**

Toxicity to fish: LC50 (Cyprinus carpio): 209 mg/l, Exposure time: 96h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia): 161 mg/l. Exposure time: 48 h

### Persistence and degradability

No data available

### Bio accumulative potential

#### Product

Bio accumulation: No data available

Partition coefficient n-octanol/water: No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Waste from residues:

Send to a licensed wastes management company. Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging:

Dispose of as unused product. Don't re-use empty containers.

## 14. TRANSPORT INFORMATION

### UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No data available

## **Domestic regulation**

### **49 CFR**

Not regulated as a dangerous good

## **Special precaution for user:**

Remarks: Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

### **OSHA Hazards:**

Harmful by ingestion. Toxic by skin absorption.

### **EPCRA-Emergency Planning and Community Right-to-Know**

### **SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards:** No SARA Hazard

### **SARA 302:**

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

### **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.

### **US State Regulations**

#### **California Prop 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive defects.

## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.