

# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name Reaction Buffer Product No Component 420201

Recommended use of the chemical and restrictions on use

Recommended use This product is for research and development only

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address New England BioLabs

240 County Road Ipswich, MA 01938

USA

Company Phone Number 978-927-5054

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Emergency telephone number

Emergency telephone 978-927-5054

800-632-5227 (toll free)

9:00am - 5:00pm Monday-Friday EST

## 2. HAZARDS IDENTIFICATION

#### Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

## **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Colorless Physical state Liquid Odor Mild

Hazards not otherwise classified (HNOC)

Other information

Note: No data available

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health.

### 4. FIRST AID MEASURES

#### First aid measures

#### General advice

Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove from exposure, lie down. Do not breathe dust/fume/gas/mist/vapors/spray.

#### **Eve contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

#### Skin contact

Wash skin with soap and water.

#### Inhalation

Remove to fresh air.

### Ingestion

Clean mouth with water and drink afterwards plenty of water.

### Most important symptoms and effects, both acute and delayed

No information available.

#### Indication of any immediate medical attention and special treatment needed

#### Note to physicians

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

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

### Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

No information available.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment [PPE]

Use personal protection recommended in Section 8.

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#### **Environmental precautions**

See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

#### Methods for containment

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### Storage temperature

Refer to www.neb.com for specific information.

#### **Storage Conditions**

Keep/store only in original container.

#### Incompatible materials

None known based on information supplied.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

## **Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

Showers. Eyewash stations.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

### Skin and body protection

Wear suitable protective clothing and gloves.

#### Respiratory protection

Use in well ventilated areas.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical stateLiquidAppearanceColorlessOdorMild

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Property Remarks • Method

**pH** 7.9

Melting point / freezing point No information available

Boiling point / boiling range 100 °C / 212 °F Flash point 100 °C / 212 °F

Evaporation rateNo information availableFlammability (solid, gas)No information availableFlammability Limit in AirNo information available

Upper flammability limit Lower flammability limit

Vapor pressure
Vapor density
Relative density
No information available
No information available
Relative density
No information available
Specific gravity
No information available
Water solubility
No information available
Solubility in other solvents
No information available
Partition coefficient
No information available

Solubility in other solventsNo information availablePartition coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

Other information

Softening point
Molecular weight
VOC content (%)
Density
No information available

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

### **Chemical stability**

Stable under normal conditions.

#### Possibility of hazardous reactions

Can react briskly with oxidizers - danger of explosion.

#### Conditions to avoid

Incompatible materials. Ignition sources. Heat.

### Incompatible materials

Strong oxidizing agents.

### **Hazardous decomposition products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO2).

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### Inhalation

Avoid breathing vapors or mists. May cause irritation of respiratory tract.

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#### Eye contact

Redness. May cause slight irritation.

#### Skin contact

Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.

#### Ingestion

May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

### Information on toxicological effects

**Symptoms** No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Mild
Serious eye damage/eye irritation Mild
Irritation Mild
Corrosivity Mild

Sensitization

Skin No information available
Respiratory No information available
Germ cell mutagenicity No information available
Carcinogenicity No information available

Reproductive toxicity
Developmental toxicity
Teratogenicity
STOT - single exposure
STOT - repeated exposure
Chronic toxicity
No information available

Target organ effects Kidneys, Eyes, Skin, Respiratory system.

Neurological effectsNo information availableOther adverse effectsNo information availableAspiration hazardNo information available

## Numerical measures of toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 66225 mg/kg

### 12. ECOLOGICAL INFORMATION

## Marine pollutant

No information available

## **Ecotoxicity**

No information available

0.501 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Potassium Acetate	-	6800: 96 h Oncorhynchus	-	7170: 24 h Daphnia magna
127-08-2		mykiss mg/L LC50		mg/L EC50
		semi-static		

#### Persistence and degradability

No information available

#### **Bioaccumulation**

No information available

#### **Mobility**

No information available

Other adverse effects

Ozone Ozone depletion potential (ODP)

No information available No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

#### **Relevant Information**

Keep out of drains, sewers, ditches and waterways.

### **Disposal considerations**

Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

#### Contaminated packaging

Empty containers must be tripled rinsed prior to disposal.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

## 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

## US Federal Regulations

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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## **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### **16. OTHER INFORMATION**

NFPAHealth hazards 0Flammability 1Instability 0Special Hazard -HMISHealth hazards 0Flammability 1Physical hazards 0Personal protection -

Prepared by EH&S Manager 978-927-5054

Prepared by New England BioLabs Issue date No data available

**Revision note** SDS is valid 3 years from revision date. Contact info@neb.com for latest revision.

Disclaimer

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**End of Safety Data Sheet**