

# Material Safety Data Sheet

## PK Storage buffer

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product number: PK Storage buffer

Recommended use: Laboratory Chemicals

Supplier: RBC Bioscience Corp.

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New Taipei City 23145, Taiwan (R.O.C.)

Emergency/Phone Number: +886-2-8912-1200

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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.

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 (%)
glycerol	56-81-5	40~55

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## 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 dust formation. Avoid breathing dust/fume/gas/mist/vapors/spray.

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

Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

**Advice on safe handling:**

For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters/Permissible concentration	Basis
Glycerol	56-81-5	TWA(mist, respirable fraction)	5mg/m <sup>3</sup>	OSHA Z-1
		TWA (mist, total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total)	10 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable fraction)	5mg/m <sup>3</sup>	OSHA P0
		TWA	10 mg/m <sup>3</sup>	ACGIH

### 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)

#### 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. When using do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Color: colorless.

Odor: characteristic.

Odor Threshold: No data available.

pH: 6-8.

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: 1.1 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: not determined

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: No data available.

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:

Acute oral toxicity: LD50 Oral (Rat): 12,000 mg/kg

Acute dermal toxicity: LD50 Dermal (Rabbit): 10,000mg/kg

### Skin corrosion/irritation

#### Product:

May cause skin irritation susceptible persons.

#### Ingredients:

Glycerol:

Species: Rabbit      Exposure time: 24h      Result: Mild skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks: May irritate eyes.

#### Ingredients:

Glycerol:

Species: Rabbit      Exposure time: 24h      Result: Mild eye irritation

### 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:

Glycerol:

Toxicity to fish: LC0 (Leuciscus idus (Golden orfe)): >250mg/l

Exposure time: 48h

**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**

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal 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:** No OSHA Hazards

**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 Hazards

**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.