

## 1. IDENTIFICATION

### 1.1 Product identifiers

Product name: Rapid Hydrolysis Buffer  
 Other name(s): RHB  
 Product number: 04-EZ-RHB

### 1.2 Intended uses

Identified uses: Laboratory chemical for research use only.

### 1.3 Supplier information

Company: Integrated Micro-Chromatography Systems, Inc. (IMCS)  
 110 Centrum Drive  
 Irmo, SC 29063  
 Telephone: +1 (888) 560-2073  
 Website: www.imcstips.com

### 1.4 Emergency telephone number

Emergency Phone: VelocityEHS USA and Canada: +1 (800) 255-3924  
 VelocityEHS International: +1 (813) 248-0585  
 IMCS Technical Support: +1 (888) 560-2073

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

This product is not classified as a hazardous material.

### 2.2 Label Elements

No labeling applicable.

### 2.3 Other Hazards

No data available.

### 2.4 Unknown acute toxicity

No data available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixture Other name(s): RHB

CAS No.	Chemical Name	Component Hazard Classifications	%
7758-11-4	Potassium phosphate, dibasic	-	1-5%
7778-77-0	Potassium phosphate, monobasic	-	0.1-1%
7732-18-5	Water	-	90-99%

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

General information: Consult physician if symptoms occur.  
 After inhalation: Supply fresh air; consult physician if symptoms occur.  
 After skin contact: Wash with soap and plenty of water.  
 After eye contact: Remove contact lenses and rinse opened eye for at least 15 minutes with running water.  
 After swallowing: Rinse mouth with water; consult physician if symptoms occur.

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

None reasonably foreseeable.

**4.3 Indication of any immediate medical attention and special treatment needed**

If exposed or concerned, seek medical advice and attention. Treat symptomatically.

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**5. FIREFIGHTING MEASURES**

**5.1 Suitable extinguishing media**

CO<sub>2</sub>, dry chemical, foam, or water spray.

**5.2 Unsuitable extinguishing media**

No data available.

**5.3 Specialized hazards arising from the substance or mixture:**

Keep product and empty containers away from heat and sources of ignition. Thermal decomposition may lead to irritating gases/vapors.

Hazardous combustion products: potassium oxides, phosphorous oxides

**5.4 Specialized protective equipment or precautions:**

No special measures required. Exercise caution when fighting any chemical fire.

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**6. ACCIDENTAL RELEASE MEASURES**

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

Wear protective clothing. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mists, or sprays.

**6.2 Environmental precautions**

Avoid release into the environment.

**6.3 Methods and materials for containment and clean up**

Absorb with inert liquid-binding materials (sand, vermiculite, universal binders, sawdust). Sweep up and containerize materials for proper disposal.

**6.4 Reference to other sections**

See section 7 for safe handling, section 8 for personal protection equipment, and section 13 for disposal information.

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**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Wash hands and other exposed areas with soap and water after handling. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mists, and sprays. Handle in accordance with good laboratory practices and safety procedures.

**7.2 Conditions for safe storage, including any incompatibilities**

Store tightly closed and upright in a cool, dry place. Recommended storage temperature is 2-25 °C.  
Incompatible materials: Excess heat, strong acids, strong oxidizers.

**7.3 Specific end use(s)**

For research use only.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure guidelines

Contains no substances with occupational exposure limit values.

### 8.2 Engineering controls

Wear personal protective equipment. Ensure safety shower and eyewash station are near work area. Ensure adequate ventilation.

### 8.3 Protective equipment and hygiene

Breathing equipment:	Not required.
Skin protection:	Chemical-resistant gloves, protective clothing.
Eye protection:	Safety glasses or goggles.
Hygiene:	Wash hands and exposed skin thoroughly with soap and water after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	Colorless
Odor:	No data available
Odor threshold:	No data available
pH:	7.2-7.8
Melting point/range:	No data available
Freezing point/range:	No data available
Boiling point/range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	Not applicable
Upper flammability or explosive limits:	No data available
Lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility:	Soluble in water
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** Hazardous reactions will not occur under normal conditions.

**10.2 Chemical stability:** Stable under recommended handling and storage conditions (see section 7).

**10.3 Possibility of hazardous reactions:** None expected under normal use.

**10.4 Conditions to avoid:** Excess heat, incompatible materials.

**10.5 Incompatible materials:** Strong acids, strong oxidizers.

**10.6 Hazardous decomposition products:** Potassium oxides, phosphorous oxides.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Acute toxicity

Not classified.

### 11.2 Primary irritant effect

On the skin: May cause skin irritation.

On the eye: May cause irritation to eyes.

Sensitization: No data available.

Component Toxicity Information	
Potassium phosphate dibasic (7758-11-4)	
LD50 Oral (Rat)	3,200 mg/kg
LD50 Dermal (Rabbit)	>4,640 mg/kg
Potassium phosphate monobasic (7778-77-0)	
LD50 Oral (Rat)	8,000 mg/kg

### 11.3 Additional toxicological information

Toxicological effects have not been thoroughly investigated.

### 11.4 Carcinogenicity

Not applicable.

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Aquatic toxicity: Not established.

Persistence and degradability: Not established.

Bio accumulative potential: Not established.

Mobility in soil: No data available.

### 12.2 Additional ecological information

General notes: Avoid release into the environment.

Other adverse effects: Runoff from fire control or dilution may cause pollution.

## 13. DISPOSAL CONSIDERATIONS

Recommendation: Soak up and discard. Dispose of in accordance with local, state, and federal regulations.

## 14. TRANSPORT INFORMATION

Not regulated for transport.

## 15. REGULATORY INFORMATION

### 15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

SARA (Superfund Amendments and Reauthorization Act of 1986 - USA)

Section 302/304 (40CFR355.30/40CFR355.40): No ingredients listed.

Section 313 (40CFR372.65): No ingredients listed.

TSCA Active Listing: 7758-11-4 potassium phosphate dibasic; 7778-77-0 potassium phosphate monobasic; 7732-18-5 water

**16. OTHER INFORMATION**

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. IMCS, Inc and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

**Date of Last Revision:** 09/14/2022

**Abbreviations and Acronyms**

CAS: Chemical Abstracts Service (division of the American Chemical Society)  
TSCA: Toxic Substance Control Act

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