1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Rapid Hydrolysis Buffer
Product number	:	04-EZ-RHB
Brand	:	Integrated Micro-Chromatography Systems, LLC
REACH No.	:	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	For research use only, not for human or veterinary use

1.3 Details of the supplier of the safety data sheet

Company	:	Integrated Micro-Chromatography Systems, LLC 541 Main Street, Suite 117 Columbia, S.C. 29201 29201
Telephone	:	(803) 576-5786
Website	:	www.imcstips.com

1.4 Emergency telephone number

Emergency Phone #	:	(951) 233-0890

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute Toxicity: Skin, Category 5

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word	Warning
Hazard statement(s)	
H313	May be harmful in contact with skin
Response phrase(s)	
P312	Call a POISON CENTER or doctor/physician if you feel unwell

2.3 GHS storage and disposal phrases

Refer to section 7 for storage and section 13 for disposal information

2.4 Route(s) of Entry

Inhalation? Yes
Skin? Yes
Eyes? Yes
Ingestion? Yes
Other: Injection

2.4 Potential health effects (acute and chronic)

Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation, ingestion or skin absorption.
May cause eye, skin or respiratory system irritation.

2.5 Target organs

No data available.

2.6 Signs and symptoms of exposure

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

2.7 Medical conditions generally aggravated by exposure

No data available.

2.8 Hazards not otherwise classified (HNOC) or not covered by GHS

none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component	CAS # / EC #	Concentration
Water	-	> 90%
Potassium phosphate	7778-77-0	< 10%

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

In case of inhalation

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

In case of skin contact

Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Seek medical attention if symptoms occur. Wash clothing before reuse.

In case of eye contact

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.

In case of ingestion

Wash out mouth with water provided person in conscious. Never give anything by mouth to an unconscious person. Seek medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Use water spray to cool fire-exposed containers.

Unsuitable extinguishing media

A solid water stream may be inefficient.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

5.4 Further information

No data available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, protective equipment and emergency procedures

Avoid breathing vapors and provide adequate ventilation.
As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental precautions

Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and materials for containment and cleaning up

Transfer to a chemical waste container for disposal in accordance with local regulation.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapors/spray.
Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: 2-32°C
Store in accordance with the information listed on the product label.

7.3 Hazard label information

Avoid contact with skin and eyes.

Do not reuse this container.

Use with adequate ventilation.

Wash thoroughly after handling.

7.4 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Personal protective equipment

Eye/face protection

Safety glasses.

Skin protection

Handle with chemical-resistant 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.

Body protection

Lab coat.

Respiratory protection

NIOSH approved respirator, as conditions warrant.

8.3 Control of environmental exposure

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.4 Work/hygienic/maintenance practices

Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) appearance	form: liquid
b) odor	no data available
c) odor threshold	no data available
d) melting point/freezing point	no data available
e) initial boiling point and boiling range	no data available
f) flash point	no data available
g) evaporation rate	no data available
h) flammability	no data available
i) upper/lower flammability or explosive limits	no data available
j) vapor pressure	no data available
k) vapor density	no data available
l) relative density	no data available
m) water solubility	no data available
n) partition coefficient: n-octanol/water	no data available
o) auto-ignition temperature	no data available
p) decomposition temperature	no data available
q) viscosity	no data available
r) explosive properties	no data available
s) oxidizing properties	no data available

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition or byproducts

phosphorus oxides

potassium oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied.

Acute toxicity

No data available.

Carcinogenicity

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

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

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

Reproductive toxicity

No data available.

Specific target organ toxicity – single exposure

No data available.

Specific target organ toxicity – repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 General information

Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 Toxicity

No data available.

12.3 Persistence and degradability

No data available.

12.4 Bioaccumulative potential

No data available.

12.5 Mobility in soil

No data available.

12.6 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.7 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

14.1 General transport classification

LAND TRANSPORT – DOT (US)

Not dangerous goods.

LAND TRASNPORT – RID/ADR (Europe)
Not dangerous goods.

AIR TRANSPORT – ICAO/IATA
Not dangerous goods.

14.2 Additional information
Transport in accordance with local, state, and federal regulations.

15. REGULATORY INFORMATION

REACH No.	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

European Community Hazard Symbol codes

No data available.

European Community Risk and Safety phrases

S24/25 – Avoid contact with skin and eyes.
S37/39 – Wear suitable gloves and eye/face protection.

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

SARA 304 Requirements
SARA 304: No chemicals in this material are subject to reporting requirements of SARA Title III, Section 304.

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.

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

Pennsylvania Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

New Jersey Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

California Prop. 65 Components
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information
Copyright 2014 Integrated Micro-Chromatography Systems, LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our 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 and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.imcstips.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation information
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Product Safety – www.imcstips.com
(803) 576-5786

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