

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name: Rapid Hydrolysis Buffer
Product number: 04-EZ-RHB-020, -050, -100, -250, -500, -1000
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
110 Centrum Drive
Irmo, SC 29063
Telephone: +1 (888) 560-2073
Website: www.imcstips.com

1.4 Emergency telephone number

Emergency Phone: US, Canada, Puerto Rico, and the U.S. Virgin Islands: +1-800-255-3924
International (collect calls accepted): +1-813-248-0585
Australia: 1-300-954-583
Brazil: 0-800-591-6042
China: 400-120-0751
India: 000-800-100-4086
Mexico: 01-800-099-0731
+1 (888) 560-2073 – IMCS Technical Support

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification in accordance with 29 CFR 1910 (OSHA HCS)

Based on the available data, the classification criteria are not met.

2.2 GHS label elements, including precautionary statements

None required.

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

2.5 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

Substances

Component	CAS No.	EC No.	Concentration
Water	7732-18-5	231-791-2	>90%
Potassium Phosphate	7778-77-0 7758-11-4	231-913-4 231-834-5	<10%

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

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

In case of inhalation

Move from contaminated area and seek 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 is 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.

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:	No information available.
Flash point:	No information available.
Method:	No information available.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to the release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

5.3 Hazardous combustion products

Oxides of phosphorous

5.4 Advice for firefighters

Wear self-contained positive pressure-demand breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

5.5 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. Use personal protective equipment. Avoid dust formation of evaporated solution.

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 clean up

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

6.4 Reference to other sections

For disposal see section 13 of this document.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment. Avoid breathing dust/fumes/gases/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 on the product label.

7.3 Hazard label information

Avoid contact with skin and eyes. Do not reuse the container. Use with adequate ventilation. Wash hands thoroughly after handling.

7.4 Specific end use(s)

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure guidelines

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

8.2 Engineering measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

8.3 Personal protective equipment

Eye/Face Protections: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body 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 after handling. Wear a lab coat to prevent contamination of clothing or body.

Respiratory protection: Follow the OSHA respirator regulation found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded, if irritation or other symptoms are experienced, or as conditions warrant.

8.4 Control of environmental exposure

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

8.5 Work/Hygenic/Maintenance practices

Handle in accordance with good industrial hygiene and safety practices. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	form: colorless liquid.
Odor:	No data available.
Odor threshold:	No data available.
Melting point/Freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash point:	No data available.
Evaporation rate:	No data available.
Flammability:	No data available.
Upper/lower flammability limits:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	No data available.
Water solubility:	No data available.
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

10. STABILITY AND REACTIVITY

- Reactive hazard:** None known based on information available.
- Chemical stability:** Stable under recommended storage conditions.
- Conditions to avoid:** Incompatible products (strong oxidizers). Excess heat.
- Incompatible materials:** Strong oxidizing agents, strong acids

Hazardous decomposition products:

- Phosphorous oxides
- Potassium oxides

11. TOXICOLOGICAL INFORMATION

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

11.1 Acute toxicity

No data available.

11.2 Carcinogenicity

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

11.3 Mutagenic Effects

No data available.

Reproductive Effects

No data available.

11.4 Teratogenicity

No data available.

11.5 Specific target organ toxicity – repeated exposure

No data available.

11.6 Aspiration hazard

No data available.

Symptoms/effects, both acute and delayed

No data available.

11.7 Endocrine disruptor information

No data available.

11.8 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 Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

14. TRANSPORT INFORMATION

14.1 General transport classification

Land Transport – DOT (US)

Not regulated.

Land Transport – RID/ADR (Europe)

Not regulated.

Air Transport ICAO/IATA

Not regulated.

14.2 Additional information

Transport in accordance with local, state, and federal regulations.

15. REGULATORY INFORMATION

15.1 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.

15.2 International inventories

Component	TSCA	DSL	NDSL	EINECS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Dihydrogen potassium phosphate	X	X	-	231-913-4	-	X	X	X	X	X
Dipotassium phosphate	X	X	-	231-834-5	-	X	X	X	X	X

Legend:

X - Listed

E - A substance that is the subject of a Section 5(e) consent order under TSCA

F - A substance that is the subject of a Section 5(f) rule under TSCA

N - A polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used

P - A commenced PMN substance

R - A substance that is the subject of a Section 6 risk management rule under TSCA

Legend Continued

- S - A substance that is identified in a proposed or final Significant New Use Rule
- T - A substance that is the subject of a Section 4 test rule under TSCA
- XU - A substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B))
- Y1 - An exempt polymer that has a number-average molecular weight of 1,000 or greater
- Y2 - An exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule

15.3 U.S. federal regulations

TSCA 12(b): Not applicable.
 SARA 313 : Not applicable.

SARA 311/312 Hazardous Categorization

Acute health hazard: No.
 Chronic health hazard: No.
 Fire hazard: No.
 Sudden release of pressure hazard : No.
 Reactive hazard: No.

CWA (Clean Water Act): Not applicable.

Clean Air Act : Not applicable.

OSHA:
 (Occupational Safety and Health Administration) Not applicable.

CERCLA: Not applicable.

California Proposition 65: This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations: Not applicable.

U.S. Department of Transportation

Reportable Quantity (RQ): No.
 DOT Marine Pollutant: No.
 DOT Severe Marine Pollutant: No.

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

15.4 Other international regulations

Mexico - Grade

No information available.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

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 and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Issuing SDS:

IMCS Technical Support

Contact:

Integrated Micro-Chromatography Systems, LLC.

110 Centrum Drive

Irmo, SC 29063

+1 (888)560-2073 (IMCS Technical Support)