

Safety Data Sheet

Trade Name: DEPC Water

Revision: 11/11/2015

Version: 1.0

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: DEPC Water

1.2. Intended Use

Research Use Only

1.3. Manufacturer

Omni International
935-C Cobb Place Blvd.
Kennesaw, GA 30144, USA
Telephone: 1-800-776-4431
Email: sales@omni-inc.com

1.4. Emergency Telephone

If medical emergency, call 911.

Contact your local Poison Control Center.

2. HAZARD IDENTIFICATION

2.1 Emergency Overview

OSHA Hazards

No known OSHA Hazards
Not a dangerous substance according GHS

GHS Classification

Not a dangerous substance according GHS

GHS Symbols

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Signal Word: N/A

Hazard Statement(s): N/A

Precautionary Statement(s) : N/A

2.2 HMIS Classification (Scale 0-4)

Health Hazard	0
Flammability	0
Physical Hazards	0

2.3 NFPA Rating (Scale 0-4)

Health Hazard	0
Fire	0
Reactivity Hazard	0

2.4 Potential Health Effects

Inhalation	May cause respiratory tract irritation.
Skin	
Eyes	
Ingestion	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterization

Mixture of the substances listed below with nonhazardous additions.

3.2 Synonyms

N/A

3.3 Component	Classification	Concentration
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N/A

4. FIRST AID MEASURES

4.1 General Advice

4.2 If Inhaled

If not breathing give artificial respiration.

4.3 In Case of Skin Contact

N/A

4.4 In Case of Eye Contact

4.5 If Swallowed

N/A

5. FIREFIGHTING MEASURES

5.1 Conditions of Flammability

Not flammable or combustible.

5.2 Suitable Extinguishing Media

Dry powder, CO₂, water spray, or alcohol-resistant foam.

5.3 Special Protective Equipment for Firefighters

Wear self-contained breathing apparatus, if necessary.

5.4 Hazardous Combustion Products

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Sodium oxides

5.5 Further Information

Prevent fire-fighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

6.2 Environmental Precautions

6.3 Methods and Materials for Containment and Cleaning Up

Use inert absorbent material to soak up spill.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

7.2 Conditions for Safe Storage

No special storage conditions required.

7.3 Incompatible Products

N/A

8. EXPOURE CONTROLS/PERSONAL PROTECTION

8.1 Components with workplace control parameters

Components	CAS-No.	Value	Control Parameters	Basis
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8.2 Personal Protective Equipment

Respiratory Protection

No special protective equipment required.

Hand Protection

Use gloves when handling this product. Inspect gloves prior to use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

Eye Protection

Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.

Skin and Body Protection

Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat.

Hygiene Measures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance

Form	Liquid
Color	Colorless

9.2 Safety Data

pH	6.0-8.0
Melting Point/Freezing Point	No data available

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Boiling Point	No data available
Flash Point	No data available
Ignition Temperature	No data available
Autoignition Temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure	No data available
Density	No data available
Water Solubility	No data available
Partition Coefficient: n-octanol/water	No data available
Relative Vapor Density	No data available
Odor	No data available
Odor Threshold	No data available
Evaporation Rate	No data available

10. STABILITY AND REACTIVITY

10.1 Chemical Stability

Stable under recommended storage conditions.

10.2 Possibility of Hazardous

N/A

10.3 Conditions to Avoid

N/A

10.4 Materials to Avoid

N/A

10.5 Hazardous Decomposition Products .

N/A

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

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Trade Name: DEPC Water

Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other Information	No data available

11.2 Skin Corrosion/Irritation No data available

11.3 Serious Eye Damage/Eye Irritation

Eyes	No data available
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11.4 Respiratory or Skin Sensitization No data available

11.5 Germ Cell Mutagenicity No data available

11.6 Carcinogenicity

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

11.7 Reproductive Toxicity No data available

11.8 Teratogenicity No data available

11.9 Specific Target Organ Toxicity - Single Exposure No data available

11.10 Specific Target Organ Toxicity - Repeated Exposure No data available

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11.11 Aspiration Hazard **No data available**

11.12 Potential Health Effects

Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed
Skin	May be harmful if absorbed through skin. Causes skin burns
Eyes	Causes eye burns. Causes severe eye burns.

11.13 Signs and Symptoms of Exposure

11.14 Synergistic Effects No data available

11.15 Additional Information RTECS; not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity No data available

12.2 Persistence and Degradability No data available

12.3 Bioaccumulative Potential No data available

12.4 Mobility in Soil No data available

12.5 PBT and vPvB Assessment No data available

12.6 Other Adverse Effects No data available

13. DISPOSAL CONSIDERATIONS

13.1 Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/ Personal Protection for additional handling information and protection of employees.

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13.2 Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1 DOT (US) Not considered dangerous goods.

14.2 IMDG Not considered dangerous goods.

14.3 IATA Not considered dangerous goods.

15. REGULATORY INFORMATION

15.1 OSHA Hazards

N/A

15.2 SARA 302 Components

No chemicals in this product are required to be reported according to SARA Title III, Section 302.

15.3 SARA 313 Components

This product does not contain any chemicals with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.4 SARA 311/312 Hazards

Acute Health Hazard

15.5 Right to Know Components

	Component (s)	CAS-No.
Massachusetts	Water	7732-18-5
Pennsylvania	Water	7732-18-5
New Jersey	Water	7732-18-5

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15.6 California Prop. 65 Components

This product does not contain any chemicals listed in the State of California's Proposition 65

16. OTHER INFORMATION

16.1 Text for H-code(s) and R-phrases(s) used in Section 3

N/A

16.2 Further Information

The above information is believed to be correct but does not claim to be all inclusive. This document shall be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Omni International shall not be held liable for any damage resulting from handling or from contact with the above product.

Safety Data Sheet

Trade Name: LD Buffer

Revision: 11/11/2015

Version: 1.0

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: LD Buffer

1.2. Intended Use

Research Use Only

1.3. Manufacturer

Omni International
935-C Cobb Place Blvd.
Kennesaw, GA 30144, USA
Telephone: 1-800-776-4431
Email: sales@omni-inc.com

1.4. Emergency Telephone

If medical emergency, call 911.
Contact your local Poison Control Center.

2. HAZARD IDENTIFICATION

2.1 Emergency Overview

OSHA Hazards

No known OSHA Hazards
Not a dangerous substance according GHS

GHS Classification

Not a dangerous substance according GHS

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Trade Name: LD Buffer

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GHS Symbols

Signal Word: N/A

Hazard Statement(s): N/A

Precautionary Statement(s) : N/A

2.2 HMIS Classification (Scale 0-4)

Health Hazard	0
Flammability	0
Physical Hazards	0

2.3 NFPA Rating (Scale 0-4)

Health Hazard	0
Fire	0
Reactivity Hazard	0

2.4 Potential Health Effects

Inhalation	May cause respiratory tract irritation.
Skin	
Eyes	
Ingestion	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterization

Mixture of the substances listed below with nonhazardous additions.

3.2 Synonyms

N/A

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3.3 Component	Classification	Concentration
N/A		

4. FIRST AID MEASURES

4.1 General Advice

4.2 If Inhaled

If not breathing give artificial respiration.

4.3 In Case of Skin Contact

N/A

4.4 In Case of Eye Contact

4.5 If Swallowed

N/A

5. FIREFIGHTING MEASURES

5.1 Conditions of Flammability

Not flammable or combustible.

5.2 Suitable Extinguishing Media

Dry powder, CO₂, water spray, or alcohol-resistant foam.

5.3 Special Protective Equipment for Firefighters

Wear self-contained breathing apparatus, if necessary.

5.4 Hazardous Combustion Products

5.5 Further Information

Prevent fire-fighting water from entering surface water or groundwater.

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

6.2 Environmental Precautions

6.3 Methods and Materials for Containment and Cleaning Up

Use inert absorbent material to soak up spill.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

7.2 Conditions for Safe Storage

No special storage conditions required.

7.3 Incompatible Products

N/A

8. EXPOURE CONTROLS/PERSONAL PROTECTION

8.1 Components with workplace control parameters

Components	CAS-No.	Value	Control Parameters	Basis
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8.2 Personal Protective Equipment

Respiratory Protection

No special protective equipment required.

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Hand Protection

Use gloves when handling this product. Inspect gloves prior to use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

Eye Protection

Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.

Skin and Body Protection

Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat.

Hygiene Measures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance

Form	Liquid
Color	Colorless

9.2 Safety Data

pH	N/A
Melting Point/Freezing Point	No data available
Boiling Point	No data available
Flash Point	No data available
Ignition Temperature	No data available
Autoignition Temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available

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Vapor Pressure	No data available
Density	No data available
Water Solubility	No data available
Partition Coefficient: n-octanol/water	No data available
Relative Vapor Density	No data available
Odor	No data available
Odor Threshold	No data available
Evaporation Rate	No data available

10. STABILITY AND REACTIVITY

10.1 Chemical Stability

Stable under recommended storage conditions.

10.2 Possibility of Hazardous

N/A

10.3 Conditions to Avoid

N/A

10.4 Materials to Avoid

N/A

10.5 Hazardous Decomposition Products .

N/A

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other Information	No data available

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11.2 Skin Corrosion/Irritation	No data available
11.3 Serious Eye Damage/Eye Irritation	
Eyes	No data available
11.4 Respiratory or Skin Sensitization	No data available
11.5 Germ Cell Mutagenicity	No data available
11.6 Carcinogenicity	
IARC	No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP	No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
OSHA	No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
11.7 Reproductive Toxicity	No data available
11.8 Teratogenicity	No data available
11.9 Specific Target Organ Toxicity - Single Exposure	No data available
11.10 Specific Target Organ Toxicity - Repeated Exposure	No data available
11.11 Aspiration Hazard	No data available
11.12 Potential Health Effects	
Inhalation	N/A
Ingestion	N/A
Skin	N/A
Eyes	N/A

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11.13 Signs and Symptoms of Exposure

11.14 Synergistic Effects No data available

11.15 Additional Information RTECS; not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity No data available

12.2 Persistence and Degradability No data available

12.3 Bioaccumulative Potential No data available

12.4 Mobility in Soil No data available

12.5 PBT and vPvB Assessment No data available

12.6 Other Adverse Effects No data available

13. DISPOSAL CONSIDERATIONS

13.1 Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/ Personal Protection for additional handling information and protection of employees.

13.2 Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1 DOT (US) Not considered dangerous goods.

14.2 IMDG Not considered dangerous goods.

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Trade Name: LD Buffer

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Version: 1.0

14.3 IATA Not considered dangerous goods.

15. REGULATORY INFORMATION

15.1 OSHA Hazards

N/A

15.2 SARA 302 Components

No chemicals in this product are required to be reported according to SARA Title III, Section 302.

15.3 SARA 313 Components

This product does not contain any chemicals with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.4 SARA 311/312 Hazards

Acute Health Hazard

15.5 Right to Know Components

	Component (s)	CAS-No.
Massachusetts	Water	7732-18-5
Pennsylvania	Water	7732-18-5
New Jersey	Water	7732-18-5

15.6 California Prop. 65 Components

This product does not contain any chemicals listed in the State of California's Proposition 65

16. OTHER INFORMATION

16.1 Text for H-code(s) and R-phrases(s) used in Section 3

N/A

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Trade Name: LD Buffer

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16.2 Further Information

The above information is believed to be correct but does not claim to be all inclusive. This document shall be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Omni International shall not be held liable for any damage resulting from handling or from contact with the above product.

Safety Data Sheet

Trade Name: Lyticase

Revision: 11/11/2015

Version: 1.0

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: Lyticase

1.2. Intended Use

Research Use Only

1.3. Manufacturer

Omni International
935-C Cobb Place Blvd.
Kennesaw, GA 30144, USA
Telephone: 1-800-776-4431
Email: sales@omni-inc.com

1.4. Emergency Telephone

If medical emergency, call 911.

Contact your local Poison Control Center.

2. HAZARD IDENTIFICATION

2.1 Harmful, irritating to eye, skin and respiratory system. May cause sensitization by inhalation and skin contact.

2.2 NFPA Ratings (Scale 0-4)

Health : 1
Fire: 0
Reactivity: 0

2.3 WHMIS Rating (Scale 0-4)

Health: 1
Fire : 0
Reactivity: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characteristics:

Lyticase

3.2 Hazardous Components :

N/A

4. FIRST AID MEASURES

4.1 If Inhaled

Remove to an area with fresh air. Consult doctor if necessary.

4.2 In Case of Skin Contact

Immediately wash effected area with large amount of water for at least 20 minutes. Adequate flushing is achieved by separating eyelids with clean fingers.

4.3 If Swallowed

Call a physician immediately.

5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam.

5.2 Special Procedure

Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

6. ACCIDENTAL RELEASE MEASURES

6.1 Precautionary Measures

No special measure required.

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Version: 1.0

Trade Name: Lyticase

6.2 Clean-up Procedure:

Pick-up mechanically.

7. HANDLING AND STORAGE

7.1 Conditions for Safe Storage

No special measure required.

8. EXPOURE CONTROLS/PERSONAL PROTECTION

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing. Do not breathe vapor.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.2 Safety Data

Physical State	Solid
Color	White
Odor	Odorless
pH	(25°C) N/A
Viscosity	(25°C) N/A
Melting Point/Freezing Point	N/A
Boiling Point	N/A
Flash Point	>70°C
Ignition Temperature	N/A
Lower Explosion Limit	N/A
Upper Explosion Limit	N/A
Vapor Pressure	(25°C) N/A
Specific Gravity	(25°C) N/A
Water Solubility	(25°C) Soluble

10. STABILITY AND REACTIVITY

10.1 Chemical Stability

Stable under recommended storage conditions.

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Trade Name: Lyticase

Revision: 11/11/2015

Version: 1.0

10.2 Possibility of Hazardous

N/A

10.3 Conditions to Avoid

N/A

10.4 Materials to Avoid

N/A

10.5 Hazardous Decomposition Products .

N/A

11. TOXICOLOGICAL INFORMATION

Toxicity Data	N/A
Acute Effects of:	
Inhalation	Irritating
Eye Contact	Irritating
Skin Contact	Irritating
Ingestion	N/A
Prolonged Exposure	N/A
Chronic Effects	N/A
RTECS Numbers	N/A
Additional Information	Handle with normal caution accorded to chemicals. Other harmful properties cannot be ruled out.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	No data available
12.2 Persistence and Degradability	No data available
12.3 Bioacumulative Potential	No data available
12.4 Mobility in Soil	No data available

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Trade Name: Lyticase

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12.5 PBT and vPvB Assessment No data available

12.6 Other Adverse Effects No data available

13. DISPOSAL CONSIDERATIONS

No special measure required.

14. TRANSPORT INFORMATION

14.1 DOT (US) Not considered dangerous goods.

14.2 IMDG Not considered dangerous goods.

14.3 IATA Not considered dangerous goods.

15. REGULATORY INFORMATION

N/A

16. OTHER INFORMATION

16.1 Text for H-code(s) and R-phrases(s) used in Section 3

N/A

16.2 Further Information

The above information is believed to be correct but does not claim to be all inclusive. This document shall be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Omni International shall not be held liable for any damage resulting from handling or from contact with the above product.

Safety Data Sheet

Trade Name: RLB Buffer

Revision: 11/11/2015

Version: 1.0

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: RLB Buffer

1.2. Intended Use

Research Use Only

1.3. Manufacturer

Omni International
935-C Cobb Place Blvd.
Kennesaw, GA 30144, USA
Telephone: 1-800-776-4431
Email: sales@omni-inc.com

1.4. Emergency Telephone

If medical emergency, call 911.
Contact your local Poison Control Center.

2. HAZARD IDENTIFICATION

2.1 Emergency Overview

OSHA Hazards

Toxic by Inhalation, Harmful by Ingestion

Target Organs

not applicable

GHS Classification

Acute toxicity, Inhalation (Category 3)
Acute toxicity, Oral (Category 4)
Acute toxicity (Category 3)

Safety Data Sheet

Trade Name: RLB Buffer

Revision: 11/11/2015

Version: 1.0

GHS Symbols



Signal Word

DANGER

Hazard Statement(s)

H302 Harmful if swallowed
H331 Toxic if Inhaled
H402 Harmful to Aquatic Life

Precautionary Statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P311 Call a POISON CENTER or doctor/physician.

2.2 HMIS Classification (Scale 0-4)

Health Hazard	2
Flammability	0
Physical Hazards	0

2.3 NFPA Rating (Scale 0-4)

Health Hazard	2
Fire	0
Reactivity Hazard	0

2.4 Potential Health Effects

Inhalation	Toxic if inhaled. May cause respiratory tract irritation.
Skin	Harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	Harmful if swallowed.
Aggravated Medical Condition	May cause nervous system disturbances.

Safety Data Sheet

Trade Name: RLB Buffer

Revision: 11/11/2015

Version: 1.0

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterization

Mixture of the substances listed below with nonhazardous additions.

3.2 Synonyms

Guanidinium thiocyanate
Guanidinium rhodanide
Guanidinium isothiocyanate
Guanidine isothiocyanate

3.3 Component	Classification	Concentration
Guanidine Thiocyanate CH ₅ N ₃ x CHNS	Acute Tox. 4; Skin Corr. 1C; Aquatic Chronic H302 + H312 + H332, H314, H412, EUH032	325-50 %
CAS-No.	592-84-0	
EC-No.	209-812-1	
Index-No.	615-030-00-5	

4. FIRST AID MEASURES

4.1 General Advice

Exit to a safe area. Consult a physician. Seek medical attention.

4.2 If Inhaled

Move to fresh air. If not breathing, give artificial respiration.
Seek medical attention.

4.3 In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

4.4 In Case of Eye Contact

Flush eyes with clean water for a minimum of 15 minutes keeping eyes open.
Seek medical attention.

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4.5 If Swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

5. FIREFIGHTING MEASURES

5.1 Conditions of Flammability

Not flammable or combustible.

5.2 Suitable Extinguishing Media

Dry powder, CO₂, water spray, or regular foam.

5.3 Special Protective Equipment for Firefighters

Wear self-contained breathing apparatus, if necessary.

5.4 Hazardous Combustion Products

Carbon oxides (CO, CO₂), Sulfur Oxides (SO_x), Nitrogen Oxides (NO_x)

5.5 Further Information

Prevent fire-fighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Wear respiratory protection. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. See Section 8: Exposure Controls/Personal Protection for further details.

6.2 Environmental Precautions

Prevent further leakage if area is safe. Do not let product enter drains. Avoid discharge into the environment.

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6.3 Methods and Materials for Containment and Cleaning Up

Use inert absorbent material to soak up spill. Dispose of as hazardous waste. Do not flush with water.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

7.2 Conditions for Safe Storage

Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from moisture.

7.3 Incompatible Products

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This product does not contain any substances with occupational exposure limit values.

8.1 Personal Protective Equipment

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment. Use respirators that have been approved by NIOSH.

Hand Protection

Use gloves when handling this product. Inspect gloves prior to use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

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Version: 1.0

Trade Name: RLB Buffer

Eye Protection

Use a face shield and/or safety goggles when handling this product.
Use eye ware that has been approved by NIOSH.

Skin and Body Protection

Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat.

Hygiene Measures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance

Form	Liquid
Color	Colorless

9.2 Safety Data

pH	No data available
Melting Point/Freezing Point	No data available
Boiling Point	No data available
Flash Point	No data available
Ignition Temperature	No data available
Autoignition Temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure	No data available
Density	No data available
Water Solubility	No data available
Partition Coefficient: n-octanol/water	No data available
Relative Vapor Density	No data available
Odor	No data available
Odor Threshold	No data available
Evaporation Rate	No data available

Safety Data Sheet

Trade Name: RLB Buffer

Revision: 11/11/2015

Version: 1.0

10. STABILITY AND REACTIVITY

10.1 Chemical Stability

Stable under recommended storage conditions.

10.2 Possibility of Hazardous

No data available

10.3 Conditions to Avoid

Heating

10.4 Materials to Avoid

Strong acids, strong oxidizing agents, cyanides

10.5 Hazardous Decomposition Products .

Carbon oxides, Sulfur Oxides (SO_x), Nitrogen oxides (NO_x),
Hydrogen cyanide, ammonia

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

Oral LD50 No data available

Inhalation LC50 No data available

Dermal LD50 No data available

Other Information No data available

11.2 Skin Corrosion/Irritation No data available

11.3 Serious Eye Damage/Eye Irritation

Eyes No data available

11.4 Respiratory or Skin Sensitization Components of the product may be absorbed into the body through the skin. Irritating to skin and mucous membranes.

Safety Data Sheet

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11.5 Germ Cell Mutagenicity No data available

11.6 Carcinogenicity

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

11.7 Reproductive Toxicity No data available

11.8 Teratogenicity No data available

11.9 Specific Target Organ Toxicity - Single Exposure No data available

11.10 Specific Target Organ Toxicity - Repeated Exposure No data available

11.11 Aspiration Hazard No data available

11.12 Potential Health Effects

Inhalation	Toxic if inhaled. May cause respiratory irritation.
Ingestion	Harmful if swallowed.
Skin	Harmful if absorbed through skin. May causes skin irritation.
Eyes	May causes eye irritation.

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

11.14 Synergistic Effects No data available

11.15 Additional Information

Safety Data Sheet

Trade Name: RLB Buffer

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12. ECOLOGICAL INFORMATION

12.1 Toxicity	No data available
12.2 Persistence and Degradability	No data available
12.3 Bioacumulative Potential	No data available
12.4 Mobility in Soil	No data available
12.5 PBT and vPvB Assessment	No data available
12.6 Other Adverse Effects	Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

S29 - Do not empty into drains

S57 - Use appropriate container to avoid environmental contamination
Refer to Section 7: Handling and Storage and Section 8: Exposure Control/
Personal Protection for additional handling information and protection of
employees.

13.2 Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1	DOT (US)	Not considered dangerous goods.
14.2	IMDG	Not considered dangerous goods.
14.3	IATA	Not considered dangerous goods.

Safety Data Sheet

Trade Name: RLB Buffer

Revision: 11/11/2015

Version: 1.0

15. REGULATORY INFORMATION

15.1 OSHA Hazards

Toxic by inhalation
Harmful by ingestion

15.2 SARA 302 Components

No chemicals in this product are required to be reported according to SARA Title III, Section 302.

15.3 SARA 313 Components

This product does not contain any chemicals with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.4 SARA 311/312 Hazards

Acute Health Hazard

15.5 Right to Know Components

	Component (s)	CAS-No.
Massachusetts	No components are subject to the Massachusetts Right to Know Act.	
Pennsylvania	Guanidine Thiocyanate	593-84-0
	Water	7732-18-5
New Jersey	Guanidine Thiocyanate	593-84-0
	Water	7732-18-5

15.6 California Prop. 65 Components

This product does not contain any chemicals listed in the State of California's Proposition 65

16. OTHER INFORMATION

16.1 Text for H-code(s) and R-phrases(s) used in Section 3

Safety Data Sheet

Trade Name: RLB Buffer

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Acute Tox.	Acute Toxicity
Aquatic Chronic	Chronic Aquatic Toxicity
EUH032	Contact with acids liberates very toxic gases
H302 + H312 + H332	Harmful if swallowed, in contact with skin, or if inhaled.
H314	Causes severe skin burns and eye damage
H412	Harmful to aquatic life with long lasting effects
Skin Corr.	Skin Corrosion

16.2 Further Information

The above information is believed to be correct but does not claim to be all inclusive. This document shall be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Omni International shall not be held liable for any damage resulting from handling or from contact with the above product.

Safety Data Sheet

Trade Name: RW1 Buffer

Revision: 11/11/2015

Version: 1.0

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: RW1 Buffer

1.2. Intended Use

Research Use Only

1.3. Manufacturer

Omni International
935-C Cobb Place Blvd.
Kennesaw, GA 30144, USA
Telephone: 1-800-776-4431
Email: sales@omni-inc.com

1.4. Emergency Telephone

If medical emergency, call 911.
Contact your local Poison Control Center.

2. HAZARD IDENTIFICATION

2.1 Emergency Overview

Combustible liquid, Flammable R 10-20/21/22-32, Harmful if swallowed, inhaled or in contact with skin.

Classification System: The classification was made according to the latest editions of international substances list, and expanded upon from company and literature data

2.2 HMIS Classification (Scale 0-4)

Health Hazard	2
Flammability	0
Physical Hazards	0

Safety Data Sheet

Trade Name: RW1 Buffer

Revision: 11/11/2015

Version: 1.0

2.3 NFPA Rating (Scale 0-4)

Health Hazard 2
Fire 0
Reactivity Hazard 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characteristics:

Aqueous solution of Guanidine Thiocyanate

3.2 Hazardous Components

593-84-0 Guanidine Thiocyanate (20-50%)

4. FIRST AID MEASURES

4.1 General Advice

Remove contaminated clothing and call physician.

4.2 If Inhaled

Remove to an area with fresh air. Give artificial respiration if not breathing and call emergency services. Oxygen may be required if respiration is difficult.

4.3 In Case of Skin Contact

Immediately wash skin with soap and copious amounts of water then consult a doctor.

4.4 In Case of Eye Contact

Immediately flush eyes with large amounts of water for at least 20 minutes. Adequate flushing is achieved by separating eyelids with clean fingers.

4.5 If Swallowed

Wash out mouth with water only if conscious. Call a physician immediately.

Safety Data Sheet

Trade Name: RW1 Buffer

Revision: 11/11/2015

Version: 1.0

5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use appropriate, non-combustible extinguishing media.

5.2 Special Procedure

Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin. Use water spray to cool fire exposed containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Precautionary Measures

Shut off all sources of ignition and evacuate area. Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.

6.2 Clean-up Procedure:

Absorb on vermiculite or sand. Place in closed containers for disposal. Finally ventilate area and wash spills when pick-up is complete.

7. HANDLING AND STORAGE

7.1 Conditions for Safe Storage

Store tightly closed at 22-25°C.

8. EXPOURE CONTROLS/PERSONAL PROTECTION

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Safety Data

Safety Data Sheet

Revision: 11/11/2015

Version: 1.0

Trade Name: RW1 Buffer

Physical State	Liquid	
Color	Colorless	
Odor	Characteristic	
pH	(25°C)	7.0
Viscosity	(25°C)	N/A
Melting Point/Freezing Point	N/A	
Boiling Point	N/A	
Flash Point	>60°C	
Ignition Temperature	N/A	
Lower Explosion Limit	N/A	
Upper Explosion Limit	N/A	
Vapor Pressure	(25°C)	N/A
Specific Gravity	(25°C)	1.070 g/cm ³
Water Solubility	(25°C)	Soluble

10. STABILITY AND REACTIVITY

10.1 Chemical Stability

Stable under recommended storage conditions.

10.2 Possibility of Hazardous

N/A

10.3 Conditions to Avoid

N/A

10.4 Materials to Avoid

Strong acids and strong oxidants

10.5 Hazardous Decomposition Products .

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, Hydrogen Sulfide and hydrogen cyanide.

Safety Data Sheet

Trade Name: RW1 Buffer

Revision: 11/11/2015

Version: 1.0

11. TOXICOLOGICAL INFORMATION

Toxicity Data	IPR-MUS LD50: 300 mg/kg NTIS AD277-6999
Acute Effects of:	
Inhalation	May be harmful by inhalation. Material is disruptive to mucous membranes and upper respiratory tract.
Eye Contact	Causes severe irritation.
Skin Contact	Causes skin irritation. Harmful by skin absorption
Ingestion	Harmful if swallowed
Prolonged Exposure	Exposure to skin causes dermatitis
Chronic Effects	N/A
RTECS Numbers	XL12250000
Additional Information	Contact with acids liberates very toxic gas. Handle with normal caution accorded to chemicals. Other harmful properties cannot be ruled out.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	No data available
12.2 Persistence and Degradability	No data available
12.3 Bioaccumulative Potential	No data available
12.4 Mobility in Soil	No data available
12.5 PBT and vPvB Assessment	No data available
12.6 Other Adverse Effects	No data available

13. DISPOSAL CONSIDERATIONS

Contact either the authorities in charge of approved waste disposal companies which will advise you on how to dispose of special waste. Contaminated packing should be handled in the same manner as the substance itself. Unless specified directly, non-contaminated packaging may be treated as household waste.

Safety Data Sheet

Trade Name: RW1 Buffer

Revision: 11/11/2015

Version: 1.0

14. TRANSPORT INFORMATION

- 14.1 DOT (US) Not considered dangerous goods.
- 14.2 IMDG Not considered dangerous goods.
- 14.3 IATA Not considered dangerous goods.

15. REGULATORY INFORMATION

Labeling: Xn, harmful, flammable, R 20/21/22-32,

16. OTHER INFORMATION

16.1 Text for H-code(s) and R-phrases(s) used in Section 3

N/A

16.2 Further Information

The above information is believed to be correct but does not claim to be all inclusive. This document shall be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Omni International shall not be held liable for any damage resulting from handling or from contact with the above product.

Safety Data Sheet

Trade Name: RW2 Buffer

Revision: 11/11/2015

Version: 1.0

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: RW2 Buffer

1.2. Intended Use

Research Use Only

1.3. Manufacturer

Omni International
935-C Cobb Place Blvd.
Kennesaw, GA 30144, USA
Telephone: 1-800-776-4431
Email: sales@omni-inc.com

1.4. Emergency Telephone

If medical emergency, call 911.
Contact your local Poison Control Center.

2. HAZARD IDENTIFICATION

Harmful by inhalation, in contact with skin and if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characteristics:

Aqueous solution of Tris (hydroxymethyl) amino methane/Hydrochloric acid, Sodium Chloride and detergent.

3.2 Hazardous Components

According to OSHR 29 CFR & 1910.1200, any mixture that contains less than 1% by weight or volume of a non-carcinogenic hazardous component is not considered hazardous, unless there is evidence to the contrary. We do not consider RNA Wash Buffer II to be hazardous. However gloves, lab coats and protective eyewear are recommended when using any chemical reagents.

Safety Data Sheet

Trade Name: RW2 Buffer

Revision: 11/11/2015

Version: 1.0

4. FIRST AID MEASURES

4.1 General Advice

Remove contaminated clothing and call physician.

4.2 If Inhaled

Remove to an area with fresh air. Give artificial respiration if not Breathing and call medical emergency services. Oxygen may be required if respiration is difficult.

4.3 In Case of Skin Contact

Immediately wash skin with soap and copious amounts of water

4.4 In Case of Eye Contact

Immediately flush eyes with large amounts of water for at least 20 minutes adequate flushing is achieved by separating eyelids, clean fingers.

4.5 If Swallowed

Wash out mouth with water only if conscious.

5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam.

5.2 Special Procedure

Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

6. ACCIDENTAL RELEASE MEASURES

Safety Data Sheet

Revision: 11/11/2015

Version: 1.0

Trade Name: RW2 Buffer

6.1 Precautionary Measures

Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.

6.2 Clean-up Procedure:

Absorb on vermiculite or sand. Place in closed containers for disposal. Finally ventilate area and wash spills when pick-up is complete.

7. HANDLING AND STORAGE

7.1 Conditions for Safe Storage

Store tightly closed at 22-25°C.

8. EXPOURE CONTROLS/PERSONAL PROTECTION

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle. Mechanical exhaust required. Keep tightly closed. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing. Do not breathe vapor. Sever eye irritant

9. PHYSICAL AND CHEMICAL PROPERTIES

9.2 Safety Data

Physical State	Liquid	
Color	Colorless	
Odor	Odorless	
pH	(25°C)	7.5
Viscosity	(25°C)	N/A
Melting Point/Freezing Point	N/A	
Boiling Point	N/A	
Flash Point	N/A	
Ignition Temperature	N/A	
Lower Explosion Limit	N/A	
Upper Explosion Limit	N/A	
Vapor Pressure	(25°C)	N/A
Specific Gravity	(25°C)	1.007 g/cm ³
Water Solubility	(25°C)	Soluble

Safety Data Sheet

Trade Name: RW2 Buffer

Revision: 11/11/2015

Version: 1.0

10. STABILITY AND REACTIVITY

10.1 Chemical Stability

Stable under recommended storage conditions.

10.2 Possibility of Hazardous

N/A

10.3 Conditions to Avoid

N/A

10.4 Materials to Avoid

N/A

10.5 Hazardous Decomposition Products .

Nature of decomposition products are not known

11. TOXICOLOGICAL INFORMATION

Toxicity Data	N/A
Acute Effects of:	
Inhalation	May be harmful by inhalation.
Eye Contact	May cause irritation
Skin Contact	May cause irritation
Ingestion	May be harmful if swallowed.
Prolonged Exposure	N/A
Chronic Effects	N/A
RTECS Numbers	N/A
Additional Information	Handle with normal caution accorded to chemicals. Other harmful properties cannot be ruled out.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

Safety Data Sheet

Trade Name: RW2 Buffer

Revision: 11/11/2015

Version: 1.0

12.2 Persistence and Degradability No data available

12.3 Bioacumulative Potential No data available

12.4 Mobility in Soil No data available

12.5 PBT and vPvB Assessment No data available

12.6 Other Adverse Effects No data available

13. DISPOSAL CONSIDERATIONS

For small quantities flush down sink with water. Make sure to observe all federal, state and local laws and requirements.

14. TRANSPORT INFORMATION

14.1 DOT (US) Not considered dangerous goods.

14.2 IMDG Not considered dangerous goods.

14.3 IATA Not considered dangerous goods.

15. REGULATORY INFORMATION

N/A

16. OTHER INFORMATION

16.1 Text for H-code(s) and R-phrases(s) used in Section 3

N/A

16.2 Further Information

The above information is believed to be correct but does not claim to be all inclusive. This document shall be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Omni International shall not be held liable for any damage resulting from handling or from contact with the above product.