

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

N/A

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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

Sodium oxides

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	6.0-8.0
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

11.2 Skin Corrosion/Irritation

No data available

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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 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

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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.

13.2 Contaminated Packaging

Disposal must be made according to official regulations.

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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

15.6 California Prop. 65 Components

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

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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: 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

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 Aquatic Toxicity (Category 3)

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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 Control Center or 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.

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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 3 H302 + H312 + H332, H314, H412, EUH032	25-50 %
CAS-No.	593-84-0	
EC-No.	209-812-1	
Index-No.	615-030-00-5	

Refer to Section 16 for full text of H-Statements and R-Phrases.

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. EXPOURE CONTROLS/PERSONAL PROTECTION

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

8.2 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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Trade Name: RW1 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

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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 (COx), Sulfur Oxides (SOx), Nitrogen oxides (NOx), 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.

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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 cause skin irritation.
Eyes	May cause 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	

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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	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.

15. REGULATORY INFORMATION

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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

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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

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

Signal Word : n/a

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Trade Name: RW2 Buffer

Hazard Statement(s): n/a
Precautionary Statement(s)
n/a

2.2 NFPA Ratings (Scale 0-4)

Health : 0
Fire: 0
Reactivity: 0

2.3 WHMIS Rating (Scale 0-4)

Health: 0
Fire : 0
Reactivity: 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 Characteristics:

Mixture of the substances listed below with nonhazardous additions.

3.2 Synonyms:

N/A

3.3 Component Classification Concentration

n/a

4. FIRST AID MEASURES

4.1 General Advice

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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

Sodium oxides

5.5 Further Information

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

6. ACCIDENTAL RELEASE MEASURES

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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.

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Version: 1.0

Trade Name: RW2 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	6.0-8.0
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

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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 on Acute Toxicity	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 no data available

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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.

ACGIH

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 ACGIH.

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 Exposures**

no data available

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.

Eyes

Causes skin burns.

Causes eye burns. Causes severe eye burns.

11.13 Signs and Symptoms of Exposure

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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.

14.3 IATA Not considered dangerous goods.

15. REGULATORY INFORMATION

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Trade Name: RW2 Buffer

Revision: 11/11/2015

Version: 1.0

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

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.

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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)

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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 causes eye irritation.

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Ingestion Harmful if swallowed.
Aggravated Medical Condition May cause nervous system disturbances.

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

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

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.

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6.2 Environmental Precautions

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

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

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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	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

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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 Reactions

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

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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.

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.

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11.14 Synergistic Effects

No data available

11.15 Additional Information

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

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.

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14.2 **IMDG** Not considered dangerous goods.

14.3 **IATA** Not considered dangerous goods.

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

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16. OTHER INFORMATION

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

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.