

# Safety Data Sheet

Trade Name: DW Buffer

Revision: 11/11/2015

Version: 1.0

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

### 1.1. Identification and Product Name

Product Name: DW 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 to GHS

GHS Classification

Not a dangerous substance according to GHS

GHS Symbols

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Trade Name: DW Buffer

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, CO<sub>2</sub>, water spray, or regular 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. EXPOSURE 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

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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	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

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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

**11.3 Serious Eye Damage/Eye Irritation**

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Eyes No data available

**11.4 Respiratory or Skin Sensitization** 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 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

**11.13 Signs and Symptoms of Exposure**

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## 11.14 Synergistic Effects

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.



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## 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: BB Buffer

Revision: 11/11/2015

Version: 1.0

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

### 1.1. Identification and Product Name

Product Name: BB 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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## 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

## 4. FIRST AID MEASURES

### 4.1 General Advice

### 4.2 If Inhaled

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If not breathing give artificial respiration.

## 4.3 In Case of Skin Contact

N/A

## 4.4 In Case of Eye Contact

N/A

## 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, CO<sub>2</sub>, 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

### 6.1 Personal Precautions

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## 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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## 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	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

### 11.5 Germ Cell Mutagenicity

No data available



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## 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 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

## 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

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**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

### 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

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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

### 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: CBH Buffer

Revision: 11/11/2015

Version: 1.0

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

### 1.1. Identification and Product Name

Product Name: CBH 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

### OSHA Hazards

Target Organ Effect, Toxic by Ingestion, Irritant

### Target Organs

Bone Marrow, Nerves

### GHS Classification

Acute toxicity, Oral (Category 4)  
Acute toxicity, Inhalation (Category 3)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)

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Trade Name: CBH Buffer

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## GHS Symbols



## Signal Word

**WARNING**

## Hazard Statement(s)

<b>H302</b>	Harmful if swallowed.
<b>H315</b>	Causes skin irritation.
<b>H319</b>	Causes serious eye irritation.
<b>H331</b>	Toxic if inhaled

## Precautionary Statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.

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Eyes	Causes eye irritation.
Ingestion	Harmful if swallowed.
Aggravated Medical Condition	May cause nervous system disturbances.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Chemical Characteristics:

Mixture of the substances listed below with nonhazardous additions

### 3.2 Synonyms :

Guanidinium chloride  
Guanidine monohydrochloride  
Guanidinium hydrochloride

3.3 Component	Classification	Concentration
Guanidine Hydrochloride	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319	50-100%
CH6ClN3		
CAS-No.	50-01-1	
EC-No.	200-002-3	
Index-No.	607-148-00-0	

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, CO<sub>2</sub>, 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, CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Hydrogen Chloride gas

### 5.5 Further Information

Prevent fire-fighting water from entering surface water or groundwater

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Precautionary Measures

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 Conditions 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

### 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 the 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.



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## 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

## 10. STABILITY AND REACTIVITY

### 10.1 Chemical Stability

Stable under recommended storage conditions.

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## 10.2 Possibility of Hazardous

no data available

## 10.3 Conditions to Avoid

Heating

## 10.4 Materials to Avoid

Strong oxidizing agents, Strong acids, Organic materials

## 10.5 Hazardous Decomposition Products .

Carbon Oxides, nitrogen oxide (NOx), Hydrogen Chloride gas

## 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

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.

# Safety Data Sheet

Trade Name: CBH Buffer

Revision: 11/11/2015

Version: 1.0

**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

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	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

## 12. ECOLOGICAL INFORMATION

**12.1 Toxicity** No data available

**12.2 Persistence and Degradability** No data available

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<b>12.3 Bioaccumulative Potential</b>	No data available
<b>12.4 Mobility in Soil</b>	No data available
<b>12.5 PBT and vPvB Assessment</b>	No data available
<b>12.6 Other Adverse Effects</b>	No data available

## 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

<b>14.1</b>	<b>DOT (US)</b>	Not considered dangerous goods.
<b>14.2</b>	<b>IMDG</b>	Not considered dangerous goods.
<b>14.3</b>	<b>IATA</b>	Not considered dangerous goods.

## 15. REGULATORY INFORMATION

### 15.1 OSHA Hazards

Target Organ Effect, Toxic by ingestion, Irritant

### 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

# Safety Data Sheet

Trade Name: CBH Buffer

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## 15.4 SARA 311/312 Hazards

Acute Health Hazard, Chronic 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 Hydrochloride	50-01-1
	Water	7732-18-5
New Jersey	Guanidine Hydrochloride	50-01-1
	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

Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
Skin Irrit.	Skin irritation

### 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: Protease

Revision: 11/11/2015

Version: 1.0

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

### 1.1. Identification and Product Name

Product Name: Protease

### 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

Target Organ Effect,  
Respiratory Sensitiser  
Irritant

GHS Classification:

Skin Irritation  
Eye Irritation  
Respiratory Sensitization  
Specific Target Organ Toxicity-Single Exposure

# Safety Data Sheet

Trade Name: Protease

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GHS Symbols



Signal Word: Danger

Hazard Statement(s):

- H315 Causes skin irritation  
H319 Causes serious eye irritation  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335 May cause respiratory irritation.

Precautionary Statement(s)

- P280 Wear protective gloves/protective clothing/eye protection/face protection  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P342 + P311 If experiencing respiratory symptoms: 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	May cause respiratory tract irritation
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.

# Safety Data Sheet

Trade Name: Protease

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

Endopeptidase K

### 3.3 Component

#### Proteinase K

Cas No.	39450-01-6	Skin Irrit. 2; Eye Irrit. 2; Resp.
EC No.	254-457-8	Sens. 1; STOT SE 3; H315,
Index No.	647-014-00-9	H319, H334, H335

### Concentration

1-5%

#### Glycerol

Cas No.	56-81-5
EC No.	200-289-5
Index No.	

30-60%

## 4. FIRST AID MEASURES

### 4.1 General Advice

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

### 4.2 If Inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### 4.3 In Case of Skin Contact

Wash off with soap and plenty of water. Consult a physician.

### 4.4 In Case of Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.



# Safety Data Sheet

Trade Name: Protease

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## 4.5 If Swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIREFIGHTING MEASURES

### 5.1 Conditions of Flammability

Not flammable or combustible.

### 5.2 Suitable Extinguishing Media

Dry powder, CO<sub>2</sub>, 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

### 6.1 Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### 6.2 Environmental Precautions

Do not let product enter drains.

# Safety Data Sheet

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Trade Name: Protease

## 6.3 Methods and Materials for Containment and Cleaning Up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for Safe Storage

Keep container tightly closed in a dry and well-ventilated place. Recommended Storage Temperature -20°C

### 7.3 Incompatible Products

N/A

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Components and workplace control parameters

Components	CAS-No.	Value	Control Parameters	Basis
Glycerol	56-81-5	TWA	10 mg/m <sup>3</sup>	USA. OSHA-TABLE Z-1 Limits for Air Contaminants-1910.1000
		TWA	5 mg/m <sup>3</sup>	USA. OSHA-TABLE Z-1 Limits for Air Contaminants-1910.1000
		TWA	10 mg/m <sup>3</sup>	USA, ACGIH Threshold Limit Values (TLV)

### 8.2 Personal Protective Equipment

#### Respiratory Protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Safety Data Sheet

Trade Name: Protease

Revision: 11/11/2015

Version: 1.0

## 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

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## 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	Powder
Color	No data available

### 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

# Safety Data Sheet

Trade Name: Protease

Revision: 11/11/2015

Version: 1.0

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

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

# Safety Data Sheet

Trade Name: Protease

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<b>11.2 Skin Corrosion/Irritation</b>	No data available
<b>11.3 Serious Eye Damage/Eye Irritation</b>	
Eyes	No data available
<b>11.4 Respiratory or Skin Sensitization</b>	Components of the product may be absorbed into the body through the skin. Irritating to skin and mucous membranes.
<b>11.5 Germ Cell Mutagenicity</b>	No data available
<b>11.6 Carcinogenicity</b>	
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.
<b>11.7 Reproductive Toxicity</b>	No data available
<b>11.8 Teratogenicity</b>	No data available
<b>11.9 Specific Target Organ Toxicity - Single Exposure</b>	No data available
<b>11.10 Specific Target Organ Toxicity - Repeated Exposure</b>	No data available

# Safety Data Sheet

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Version: 1.0

Trade Name: Protease

<b>11.11 Aspiration Hazard</b>	No data available
<b>11.12 Potential Health Effects</b>	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin.
Eyes	Causes eye irritation.
<b>11.13 Signs and Symptoms of Exposure</b>	
<b>11.14 Synergistic Effects</b>	No data available
<b>11.15 Additional Information</b>	RTECS: not available

## 12. ECOLOGICAL INFORMATION

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

## 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.

# Safety Data Sheet

Trade Name: Protease

Revision: 11/11/2015

Version: 1.0

## 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

Target Organ Effect, Respiratory sensitiser, Irritant

### 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 311/312 Hazards

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, Chronic Health Hazard

### 15.5 Right to Know Components

	Component (s)	CAS-No.
Massachusetts	Glycerol	56-81-5
	Proteinase K	39450-01-6
Pennsylvania	Water	7732-18-5
	Glycerol	56-81-5
	Proteinase K	39450-01-6

# Safety Data Sheet

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Version: 1.0

Trade Name: Protease

New Jersey	Water	7732-18-5
	Glycerol	56-81-5
	Proteinase K	39450-01-6

## 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: Rnase A

Revision: 11/11/2015

Version: 1.0

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

### 1.1. Identification and Product Name

Product Name: Rnase A

### 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 : Warning

# Safety Data Sheet

Revision: 11/11/2015

Version: 1.0

Trade Name: Rnase A

## Hazard Statement(s):

H316 Causes mild skin irritation.  
H320 Causes eye irritation.

## Precautionary Statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## 2.2 HMIS Classification (Scale 0-4)

Health Hazard	0
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	May cause respiratory tract irritation
Skin	May be harmful if absorbed through skin. Causes skin irritation
Eyes	Causes eye irritation
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

Ribonuclease A	Ribonuclease I	Ribonucleate 3' pyrimidinooligonucleotidohydrolase
----------------	----------------	---

Pancreatic Ribonuclease

# Safety Data Sheet

Revision: 11/11/2015

Version: 1.0

Trade Name: Rnase A

<b>3.3 Component</b>	<b>Classification</b>	<b>Concentration</b>
Glycerol		25-50%
Cas No.	56-81-5	
EC No.	200-289-5	

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

## 4. FIRST AID MEASURES

### 4.1 General Advice

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

### 4.2 If Inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### 4.3 In Case of Skin Contact

Wash off with soap and plenty of water. Consult a physician

### 4.4 In Case of Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### 4.5 If Swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIREFIGHTING MEASURES

### 5.1 Conditions of Flammability

Not flammable or combustible..

### 5.2 Suitable Extinguishing Media

# Safety Data Sheet

Revision: 11/11/2015

Version: 1.0

Trade Name: Rnase A

Dry powder, CO<sub>2</sub>, 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

### 6.1 Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### 6.2 Environmental Precautions

Do not let product enter drains.

### 6.3 Methods and Materials for Containment and Cleaning Up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

### 7.2 Conditions for Safe Storage

Keep container tightly closed in a dry and well-ventilated place. Recommended Storage Temperature 2-8°C

# Safety Data Sheet

Revision: 11/11/2015

Version: 1.0

Trade Name: Rnase A

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Components with workplace control parameters

Components	CAS-No.	Value	Control Parameters	Basis
Glycerol	56-81-5	TWA	10 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

### 8.2 Personal Protective Equipment

#### Respiratory Protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 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

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### 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	no data available

### 9.2 Safety Data

pH	no data available
Melting Point/Freezing Point	no data available
Boiling Point	no data available

# Safety Data Sheet

Trade Name: Rnase A

Revision: 11/11/2015

Version: 1.0

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 Reactions

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

# Safety Data Sheet

Revision: 11/11/2015

Version: 1.0

Trade Name: Rnase A

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

**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

# Safety Data Sheet

Trade Name: Rnase A

Revision: 11/11/2015

Version: 1.0

## 11.12 Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin.
Eyes	Causes eye irritation

## 11.13 Signs and Symptoms of Exposure

Prolonged or repeated exposure may cause:, Headache, Nausea, Vomiting

## 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



# Safety Data Sheet

Trade Name: Rnase A

Revision: 11/11/2015

Version: 1.0

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

Target Organ Effect

### 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

Chronic Health Hazard

### 15.5 Right to Know Components

	Component(s)	CAS-No.
Massachusetts	Glycerol	56-81-5
Pennsylvania	Water	7732-18-5
	Glycerol	56-81-5
New Jersey	Water	7732-18-5
	Glycerol	56-81-5
	Ribonuclease	9001-99-4

# Safety Data Sheet

Trade Name: Rnase A

Revision: 11/11/2015

Version: 1.0

## 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

GHS Symbols

Signal Word : N/A

# Safety Data Sheet

Revision: 11/11/2015

Version: 1.0

Trade Name: LD Buffer

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 Characteristics:

Mixture of the substances listed below with nonhazardous additions.

### 3.2 Synonyms

N/A

### 3.3 Component

N/A

Classification

Concentration

# Safety Data Sheet

Trade Name: LD Buffer

Revision: 11/11/2015

Version: 1.0

## 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, CO<sub>2</sub>, 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.

# Safety Data Sheet

Trade Name: LD Buffer

Revision: 11/11/2015

Version: 1.0

## 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. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Components with workplace control parameters

Components	CAS-No.	Value	Control Parameters	Basis
------------	---------	-------	--------------------	-------

### 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.

# Safety Data Sheet

Revision: 11/11/2015

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Trade Name: LD Buffer

## 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  
Color

Liquid  
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
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 Reactions

N/A

# Safety Data Sheet

Trade Name: LD Buffer

Revision: 11/11/2015

Version: 1.0

## 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

**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.



# Safety Data Sheet

Trade Name: LD Buffer

Revision: 11/11/2015

Version: 1.0

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	N/A
Ingestion	N/A
Skin	N/A
Eyes	N/A

## 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

# Safety Data Sheet

Trade Name: LD Buffer

Revision: 11/11/2015

Version: 1.0

## 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

### 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.

# Safety Data Sheet

Trade Name: LD Buffer

Revision: 11/11/2015

Version: 1.0

## 15.4 SARA 311/312 Hazards

Chronic Health Hazard

## 15.5 Right to Know Components

	Component(s)	CAS-No.
Massachusetts	Glycerol	56-81-5
Pennsylvania	Water	7732-18-5
	Glycerol	56-81-5
New Jersey	Water	7732-18-5
	Glycerol	56-81-5
	Ribonuclease	9001-99-4

## 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: BB Buffer

Revision: 11/11/2015

Version: 1.0

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

### 1.1. Identification and Product Name

Product Name: BB 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



# Safety Data Sheet

Revision: 11/11/2015

Version: 1.0

Trade Name: BB Buffer

Signal Word : WARNING

Hazard Statement(s):

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled

Precautionary Statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
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 Causes eye irritation.  
Ingestion Harmful if swallowed.  
Aggravated Medical Condition May cause nervous system disturbances.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Chemical Characteristics:

Mixture of the substances listed below with nonhazardous additions.

# Safety Data Sheet

Trade Name: BB Buffer

Revision: 11/11/2015

Version: 1.0

## 3.2 Synonyms

Guanidinium chloride  
Guanidine monohydrochloride  
Guanidinium hydrochloride

3.3 Component	Classification	Concentration
Guanidine Hydrochloride	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319	
CH6ClN3		
CAS-No.	50-01-1	
EC-No.	200-002-3	
Index-No.	607-148-00-0	

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.

### 4.5 If Swallowed

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

# Safety Data Sheet

Trade Name: BB Buffer

Revision: 11/11/2015

Version: 1.0

## 5. FIREFIGHTING MEASURES

### 5.1 Conditions of Flammability

Not flammable or combustible..

### 5.2 Suitable Extinguishing Media

Dry powder, CO<sub>2</sub>, 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, CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Hydrogen Chloride gas

### 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.

### 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

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

### 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.

#### 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.



# Safety Data Sheet

Trade Name: BB Buffer

Revision: 11/11/2015

Version: 1.0

## 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

## 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

# Safety Data Sheet

Trade Name: BB Buffer

Revision: 11/11/2015

Version: 1.0

## 10.4 Materials to Avoid

Strong oxidizing agents, Strong acids, Organic materials

## 10.5 Hazardous Decomposition Products

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas

## 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** 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.
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.

# Safety Data Sheet

Trade Name: BB Buffer

Revision: 11/11/2015

Version: 1.0

**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. Causes respiratory tract irritation.
Ingestion	Toxic if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	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

## 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

# Safety Data Sheet

Trade Name: BB Buffer

Revision: 11/11/2015

Version: 1.0

## 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

### 15.1 OSHA Hazards

Target Organ Effect, Toxic by ingestion, Irritant

### 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.

# Safety Data Sheet

Trade Name: BB Buffer

Revision: 11/11/2015

Version: 1.0

## 15.4 SARA 311/312 Hazards

Acute Health Hazard, Chronic 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 Hydrochloride	50-01-1
	Water	7732-18-5
New Jersey	Guanidine Hydrochloride	50-01-1
	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

Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
H302	Harmful if swallowed
H315	Causes skin irritation.
H319	Causes serious eye irritation
Skin Irrit.	Skin irritation

### 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: DLB Buffer

Revision: 11/11/2015

Version: 1.0

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

### 1.1. Identification and Product Name

Product Name: DLB 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

# Safety Data Sheet

Trade Name: DLB Buffer

Revision: 11/11/2015

Version: 1.0

Signal Word :           WARNING

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 Characteristics:

Mixture of the substances listed below with nonhazardous additions.

### 3.2 Synonyms

N/A

### 3.3 Component

Classification

Concentration

N/A

# Safety Data Sheet

Trade Name: DLB Buffer

Revision: 11/11/2015

Version: 1.0

## 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

N/A

### 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, CO<sub>2</sub>, 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.



# Safety Data Sheet

Trade Name: DLB Buffer

Revision: 11/11/2015

Version: 1.0

## 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. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Componentes iwth work place control parameters

Components	CAS-No.	Value	Control Parameters	Basis
------------	---------	-------	--------------------	-------

### 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.

# Safety Data Sheet

Revision: 11/11/2015

Version: 1.0

Trade Name: DLB 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  
Color

Liquid  
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
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: DLB 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 Reactions

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

<b>11.2 Skin Corrosion/Irritation</b>	no data available
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<b>11.3 Serious Eye Damage/Eye Irritation</b>	
Eyes	no data available

<b>11.4 Respiratory or Skin Sensitization</b>	no data available
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<b>11.5 Germ Cell Mutagenicity</b>	no data available
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# Safety Data Sheet

Trade Name: DLB Buffer

Revision: 11/11/2015

Version: 1.0

## 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	N/A
Ingestion	N/A
Skin	N/A
Eyes	N/A

## 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

# Safety Data Sheet

Trade Name: DLB Buffer

Revision: 11/11/2015

Version: 1.0

## 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

# Safety Data Sheet

Trade Name: DLB 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

## 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

### 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.