

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 GHS

GHS Classification

Not a dangerous substance according GHS

GHS Symbols

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Signal Word: N/A

Hazard Statement(s): N/A

Precautionary Statement(s) : N/A

2.2 HMIS Classification (Scale 0-4)

Health Hazard	0
Flammability	0
Physical Hazards	0

2.3 NFPA Rating (Scale 0-4)

Health Hazard	0
Fire	0
Reactivity Hazard	0

2.4 Potential Health Effects

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterization

Mixture of the substances listed below with nonhazardous additions.

3.2 Synonyms

N/A

3.3 Component

Classification

Concentration

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N/A

4. FIRST AID MEASURES

4.1 General Advice

4.2 If Inhaled

If not breathing give artificial respiration.

4.3 In Case of Skin Contact

N/A

4.4 In Case of Eye Contact

4.5 If Swallowed

N/A

5. FIREFIGHTING MEASURES

5.1 Conditions of Flammability

Not flammable or combustible.

5.2 Suitable Extinguishing Media

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

5.3 Special Protective Equipment for Firefighters

Wear self-contained breathing apparatus, if necessary.

5.4 Hazardous Combustion Products

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Sodium oxides

5.5 Further Information

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

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

6.2 Environmental Precautions

6.3 Methods and Materials for Containment and Cleaning Up

Use inert absorbent material to soak up spill.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

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

7.2 Conditions for Safe Storage

No special storage conditions required.

7.3 Incompatible Products

N/A

8. EXPOURE CONTROLS/PERSONAL PROTECTION

8.1 Components with workplace control parameters

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

Respiratory Protection

No special protective equipment required.

Hand Protection

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

Eye Protection

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

Skin and Body Protection

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

Hygiene Measures

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance

Form	Liquid
Color	Colorless

9.2 Safety Data

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

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

10. STABILITY AND REACTIVITY

10.1 Chemical Stability

Stable under recommended storage conditions.

10.2 Possibility of Hazardous

N/A

10.3 Conditions to Avoid

N/A

10.4 Materials to Avoid

N/A

10.5 Hazardous Decomposition Products .

N/A

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

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

11.2 Skin Corrosion/Irritation No data available

11.3 Serious Eye Damage/Eye Irritation

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

11.5 Germ Cell Mutagenicity No data available

11.6 Carcinogenicity

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

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

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

11.7 Reproductive Toxicity No data available

11.8 Teratogenicity No data available

11.9 Specific Target Organ Toxicity - Single Exposure No data available

11.10 Specific Target Organ Toxicity - Repeated Exposure No data available

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11.11 Aspiration Hazard No data available

11.12 Potential Health Effects

Inhalation	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

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: EB Buffer

Revision: 11/11/2015

Version: 1.0

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: EB 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

Safety Data Sheet

Trade Name: EB Buffer

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Version: 1.0

GHS Symbols

Signal Word: N/A

Hazard Statement(s): N/A

Precautionary Statement(s) : N/A

2.2 HMIS Classification (Scale 0-4)

Health Hazard	0
Flammability	0
Physical Hazards	0

2.3 NFPA Rating (Scale 0-4)

Health Hazard	0
Fire	0
Reactivity Hazard	0

2.4 Potential Health Effects

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterization

Mixture of the substances listed below with nonhazardous additions.

3.2 Synonyms

N/A

3.3 Component

N/A

Classification

Concentration

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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

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11.2 Skin Corrosion/Irritation No data available

11.3 Serious Eye Damage/Eye Irritation

Eyes No data available

11.4 Respiratory or Skin Sensitization No data available

11.5 Germ Cell Mutagenicity No data available

11.6 Carcinogenicity

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

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

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11.13 Signs and Symptoms of Exposure

11.14 Synergistic Effects No data available

11.15 Additional Information RTECS; not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity No data available

12.2 Persistence and Degradability No data available

12.3 Bioaccumulative Potential No data available

12.4 Mobility in Soil No data available

12.5 PBT and vPvB Assessment No data available

12.6 Other Adverse Effects No data available

13. DISPOSAL CONSIDERATIONS

13.1 Product

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

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

13.2 Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1 DOT (US) Not considered dangerous goods.

14.2 IMDG Not considered dangerous goods.

14.3 IATA Not considered dangerous goods.

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Trade Name: EB Buffer

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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

16. OTHER INFORMATION

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

N/A

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16.2 Further Information

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

Safety Data Sheet

Trade Name: 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

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

Trade Name: CBH Buffer

Revision: 11/11/2015

Version: 1.0

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

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
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n/a

4. FIRST AID MEASURES

4.1 General Advice

4.2 If Inhaled

If not breathing give artificial respiration

4.3 In Case of Skin Contact

N/A.

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4.4 In case of Eye Contact

4.5 If Swallowed

N/A

5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

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

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

Safety Data Sheet

Trade Name: CBH Buffer

Revision: 11/11/2015

Version: 1.0

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

8.2 Personal Protective Equipment

Respiratory Protection

No special protective equipment required.

Hand Protection

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

Eye Protection

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

Skin and Body Protection

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

Hygiene Measures

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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Trade Name: CBH Buffer

Revision: 11/11/2015

Version: 1.0

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

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

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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.
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

Safety Data Sheet

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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

12.6 Other Adverse Effects

No data available

13. DISPOSAL CONSIDERATIONS

Safety Data Sheet

Trade Name: CBH Buffer

Revision: 11/11/2015

Version: 1.0

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.

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: 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

Toxic by Inhalation, Harmful by Ingestion

Target Organs

not applicable

GHS Classification

Acute toxicity, Inhalation (Category 3)

Acute toxicity, Oral (Category 4)

Safety Data Sheet

Trade Name: Protease

Revision: 11/11/2015

Version: 1.0

Acute toxicity (Category 3)

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

Safety Data Sheet

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Trade Name: Protease

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 Characterization

Mixture of the substances listed below with nonhazardous additions.

3.2 Synonyms

Endopeptidase K

3.3 Component	Classification	Concentration
Proteinase K		1-5%
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	
Glycerol		30-60%
Cas No. 56-81-5		
EC No. 200-289-5		
Index No.		

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

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

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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

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

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.

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 with workplace control parameters

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

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.

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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
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

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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

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.

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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. 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	
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

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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

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 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, Chronic Health Hazard

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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
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.