

Trade Name: BBR Buffer

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: BBR Buffer

Manufacturer or Supplier Details

Company Name:	Omni International
Address:	935-C Cobb Place Blvd. Kennesaw, GA 30144, USA
Telephone:	1-800-776-4431
Email:	sales@omni-inc.com
Emergency Telephone:	If medical emergency, call 911.

Contact your local Poison Control Center.

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use:	For research use only.
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2. HAZARD IDENTIFICATION

Hazard Classification:

OSHA Hazards:	Harmful by inhalation, harmful by ingestion, harmful in contact with skin
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Health Hazards:	Acute toxicity, inhalation	Category 4
	Acute toxicity, oral	Category 4
	Acute toxicity, dermal	Category 4
	Acute aquatic toxicity	Category 3
	Chronic acute toxicity	Category 3
	Flammable liquids	Category 2

Trade Name: BBR Buffer

GHS Label Element:

Hazard Symbol:
Signal word:



Warning

Hazard Statements:

H412 – Harmful to aquatic life with long lasting effects.
H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H332 - Harmful if inhaled.
H226 - Flammable liquid and vapour.

Precautionary Statements:

P261 - Avoid breathing dust/fumes/gas/mist/vapors/spray.
P311 - Call a POISON CENTER or doctor/physician. P280 -
Wear protective gloves/protective clothing/eye
protection/face protection.
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or
doctor/ physician.
P304 + P340 - IF INHALED: Remove person to fresh air and
keep in a position comfortable for breathing. smoking.
P233 - Keep container tightly closed.

Potential Health Effects:

Aggravated Medical Conditions:

May cause nervous system disturbances.

Symptoms of Overexposure:

N/A

Inhalation:

Harmful if inhaled. May cause respiratory tract irritation.

Skin:

Harmful if absorbed through skin. May cause skin
irritation.

Eyes:

May cause eye irritation.

Ingestion:

Harmful if swallowed.

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Carcinogenicity:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture of the substances listed below with non-hazardous additions.

Synonyms/Common Names Guanidinium thiocyanate, Guanidinium rhodanide, Guanidinium isothiocyanate, Guanidine isothiocyanate

Chemical Name	CAS No.	Concentration (%)
Guanidine thiocyanate CH ₅ N ₃ . CHNS	593-84-0	25-50%
Ethanol C ₂ H ₆ O	64-17-5	10-20%

4. FIRST AID MEASURES

General Advice: Exit to a safe area. Consult a physician. Seek medical attention.

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

In Case of Skin Contact: Exit to safe area. Wash thoroughly with soap and water. Seek medical attention

Trade Name: BBR Buffer

In Case of Eye Contact:	Flush eyes with clean water for a minimum of 15 minutes, keeping eyes open. Seek medical attention.
If Swallowed:	Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.
Most Important Symptoms and Effects, Acute, and Delayed:	May cause pain, irritation or redness, and watering of eyes.
Recommendations for Immediate Medical Attention and Special Treatment:	N/A

5. FIREFIGHTING MEASURES

Conditions of Flammability:	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat, sparks, open flames and/or hot surfaces. No smoking.
Suitable Extinguishing Media:	Dry powder, CO ₂ , water spray or regular foam.
Special Protective Equipment for Firefighters:	Wear self-contained breathing apparatus, if necessary.
Hazardous Combustion Products:	Carbon oxides (CO, CO ₂), nitrogen oxides (NO _x), sulfur oxides (SO _x).
Further Information:	Prevent Firefighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear respiratory protection when ventilation is inadequate. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. See Section 8: Exposure Controls/Personal Protection for more details.
Environmental Precautions:	Prevent further leakage if area is safe. Do not let product enter drains. Avoid discharge into the environment.
Emergency Procedures:	Evacuate personnel to safe areas and follow emergency response protocols.

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Methods and Materials for Containment and Cleaning Up:

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

7. HANDLING AND STORAGE

Precautions for Safe Handling:

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

Conditions for Safe Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light and moisture. Do not store near acids.

Incompatible Products:

Strong oxidizing agents.

8. EXPOURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls: Adequate ventilation and access to eye washing stations are required.

Recommendations for Personal Protective Measures:

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 eyewear 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 a laboratory coat.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be used.

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Hygiene Measures:

Avoid contact with eyes, skin and clothing. Wash hands thoroughly after using this product. Do not eat, drink or smoke when handling this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc:

N/A

Components with Workplace Control Parameters:

Components	CAS No.	Value	Control Parameters	Basis
Ethanol	64-17-5	TWA	1,000 ppm	OSHA PEL
			1,900 mg/m ³	
		STEL	1,100 ppm	OSHA PEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form
Color

Liquid
Colorless

Odor

Alcohol-like

Odor Threshold

No data available

pH

5.0-7.0

Melting Point/Freezing Point

No data available

Boiling Point

No data available

Flash Point

95°C (35°C)

Evaporation Rate

No data available

Flammability (Solid, Gas):

No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper):

No data available

Flammability Limit (Lower):

No data available

Explosive Limit (Upper):

No data available

Explosive Limit (Lower):

No data available

Vapor Pressure:

No data available

Vapor Density:

No data available

Relative Density:

No data available

Trade Name: BBR Buffer

Solubility:

Solubility in Water:

No data available

Solubility (Other):

No data available

Partition coefficient (n-octanol/water)

No data available

Auto-Ignition Temperature:

No data available

Decomposition Temperature:

No data available

Viscosity:

No data available

10. STABILITY AND REACTIVITY

Reactivity:

Vapor/air – Mixtures are flammable.

Chemical Stability:

Stable under recommended storage conditions.

Possibility of Hazardous Reactions:

Risk of ignition or formation of inflammable gasses or vapors with: chromium (VI) oxide, hydrogen peroxide, uranium hexafluoride, nitrogen dioxide, nitric acid, oxides of phosphorous, permanganic acid, perchloric acid, sulfuric acid, potassium permanganate, perchlorates, fluorine, ethyl oxide, chromyl chloride, halogen-halogen compounds, strong oxidizing agents, alkali oxides, alkaline earth metals, alkali metals.

Conditions to Avoid:

Heating, flames, sparks, extremes of temperature and direct sunlight.

Materials to Avoid:

Oxidizing agents, acid anhydrides, aluminum, halogenated compounds, acids.

Hazardous Decomposition Products:

In the event of fire: see Section 5.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation:

May be harmful if inhaled. May cause drowsiness or dizziness.

Ingestion:

May be harmful if swallowed.

Skin:

May be harmful if absorbed through skin. Causes skin burns.

Eyes:

Causes severe eye burns.

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Information on Toxicological Effects:

Acute Toxicity:	GTC	EtOH
Oral LD50:	593 mg/kg (Rat)	6,200 mg/kg (Rat)
Inhalation LC50:	No data available	95.6 mg/L, 4h (Rat)
Dermal LD50:	No data available.	No data available
Other Information:	Peritoneal LD50: 300 mg/kg (Mouse).	
Skin Corrosion/Irritation:	No data available	
Serious Eye Damage/Irritation:	No data available	
Respiratory or Skin Sensitization:	Components of this product may be absorbed into the body through the skin. Irritating to skin and mucus membranes.	
Germ Cell Mutagenicity:	No data available.	

Carcinogenicity:

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

Reproductive Toxicity:

Teratogenicity:

Specific Target Organ Toxicity – Single Exposure:

Specific Target Organ Toxicity – Repeated

Exposure:

Aspiration Hazard:

Signs and Symptoms of Exposure:

No data available
No data available.
No data available
No data available.
No data available.
Irritating to eyes, respiratory system and skin.

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Synergistic Effects:

No data available.

Additional Information:

No data available.

12. ECOLOGICAL INFORMATION

Toxicity

GTC

EtOH

EC50: 42.4 mg/L - 48 h
(*Daphnia*)

9,268-14,221 mg/L - 48h
(*Daphnia*)

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

Product is water soluble and may spread in water systems.

PBT and vPvB Assessment

No data available.

Other Adverse Effects

Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

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.

Contaminated Packaging

Disposal must be made according to official regulations.

To minimize exposure, please refer to Section 8: Exposure Control/Personal Protection of this SDS.

14. TRANSPORT INFORMATION

DOT:

Not considered dangerous goods

IMDG:

Not considered dangerous goods

IATA:

Not considered dangerous goods

15. REGULATORY INFORMATION

US Federal Regulations:

SARA 302 Components:	None present or none present in regulated quantities.
SARA 313 Components:	None present or none present in regulated quantities.
SARA 311/312 Hazards:	Acute health hazard.
OSHA Hazards:	
Aggravated Medical Conditions:	May cause nervous system disturbances.
Symptoms of Overexposure:	N/A
Inhalation:	Harmful if inhaled. May cause respiratory irritation.
Skin:	Harmful if absorbed through skin. May cause skin irritation.
Eyes:	Causes eye irritation.
Ingestion:	Harmful if swallowed.

US State Regulations:

California Prop. 65:	No ingredient regulated by CA Prop 65 present.
Massachusetts RTK	No ingredient regulated by MA Right to Know Act present.
New Jersey & Community RTK:	
	Component(s) CAS-No.
	Guanidine thiocyanate 593-84-0
	Water 7732-18-5
	Ethanol 64-17-5
Pennsylvania RTK:	Guanidine thiocyanate 593-84-0
	Water 7732-18-5
	Ethanol 64-17-5
Rhode Island RTK:	Guanidine thiocyanate 593-84-0
	Water 7732-18-5
	Ethanol 64-17-5

16. OTHER INFORMATION

Issue Date:	11/11/2015
Revision Date:	03/13/2019
Version:	2.0
Further Information:	No data available.
Disclaimer:	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

Safety Data Sheet

Trade Name: BBR Buffer

Revision: 03/13/2019
Version: 2.0

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

Trade Name: CBH Buffer

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: CBH Buffer

Manufacturer or Supplier Details

Company Name: Omni International
Address: 935-C Cobb Place Blvd.
Kennesaw, GA 30144, USA
Telephone: 1-800-776-4431
Email: sales@omni-inc.com
Emergency Telephone: If medical emergency, call 911.

Contact your local Poison Control Center.

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

2. HAZARD IDENTIFICATION

Hazard Classification:

Health Hazards:	Acute toxicity (oral)	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity – single exposure	Category 3

GHS Label Element:

Hazard Symbol:



Signal word:

Warning

Trade Name: CBH Buffer

Hazard Statements:

H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H319 - Causes serious skin irritation.
H332 - Harmful if inhaled.

Precautionary Statements:

P261 - Avoid breathing dust/fumes/gas/mist/vapors/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 control center or doctor/physician.

Potential Health Effects:

Aggravated Medical Conditions:

May cause nervous system disturbances.

Symptoms of Overexposure:

N/A

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.

Carcinogenicity:

IARC

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

ACGIH

No component of this product that is present at 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP

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

OSHA

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

Trade Name: CBH Buffer

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture of the substances listed below with non-hazardous additions.

Synonyms/Common Names Guanidinium chloride, Guanidinium monohydrochloride, Guanidinium hydrochloride

Chemical Name	CAS No.	Concentration (%)
Guanidine Hydrochloride CH ₆ CIN ₃	50-01-1	50-100%

4. FIRST AID MEASURES

General Advice: Exit to a safe area. Consult a physician. Seek medical attention.

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

In Case of Skin Contact: Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact: Flush eyes with clean water for a minimum of 15 minutes, keeping eyes open. Seek medical attention.

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

Most Important Symptoms, and Effects, Acute and Delayed:
Irritating to eyes, respiratory system and skin. Narcotic effect.

Recommendations for Immediate Medical Attention and Special Treatment:
Treat symptomatically. Symptoms may be delayed.

5. FIREFIGHTING MEASURES

Trade Name: CBH Buffer

Conditions of Flammability:	Not flammable or combustible.
Suitable Extinguishing Media:	Dry powder, CO ₂ , water spray or regular foam.
Special Protective Equipment for Firefighters:	Wear self-contained breathing apparatus, if necessary.
Hazardous Combustion Products:	Carbon oxides (CO, CO ₂), nitrogen oxides (NOx), hydrogen chloride gas.
Further Information:	Prevent firefighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

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 more details.
Environmental Precautions:	Prevent further leakage if area is safe. Do not let product enter drains. Avoid discharge into the environment.
Emergency Procedures:	Evacuate personnel to safe areas and follow emergency response protocols.
Methods and Materials for Containment and Cleaning Up:	Use inert absorbent material to soak up spill. Dispose of hazardous waste. Do not flush with water.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors or mist.
Conditions for Safe Storage:	Keep container tightly closed in a dry, well-ventilated place.
Incompatible Products:	Strong oxidizing agents.

Trade Name: CBH Buffer

8. EXPOURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls: Adequate ventilation and access to eye washing stations are required.

Recommendations for Personal Protective Measures:

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 eyewear 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 a laboratory coat.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be used
Hygiene Measures:	Avoid contact with eyes, skin and clothing. Wash hands thoroughly after using this product. Do not eat, drink or smoke when handling this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc:

N/A

Components with Workplace Control Parameters:

N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form

Liquid

Color

Colorless

Odor

No data available

Odor Threshold

No data available

Trade Name: CBH Buffer

pH	3.0-5.0
Melting Point/Freezing Point	No data available
Boiling Point	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solid, Gas):	No data available
Upper/Lower Limits on Flammability and Explosive Limits:	

Flammability Limit (Upper):	No data available
Flammability Limit (Lower):	No data available
Explosive Limit (Upper):	No data available
Explosive Limit (Lower):	No data available

Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	No data available
Solubility:	

Solubility in Water:	No data available
Solubility (Other):	No data available

Partition coefficient (n-octanol/water)	No data available
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No dangerous reactions known under conditions of normal use.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Contact with incompatible materials, excessive heat.
Materials to Avoid:	Strong oxidizing agents, strong acids, inorganic salts, chlorinated compounds.
Hazardous Decomposition Products:	Carbon oxides, nitrogen oxides (NOx), hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation:	Harmful if inhaled. May cause respiratory tract irritation.
Ingestion:	Harmful if swallowed..
Skin:	Causes skin irritation.
Eyes:	Causes serious eye irritation.

Information on Toxicological Effects:

Acute Toxicity:

Oral LD50:	1,900 mg/kg (Rat)
Inhalation LC50:	No data available
Dermal LD50:	2,000 mg/kg (Rabbit)
Other Information:	No data available.
Skin Corrosion/Irritation:	Causes skin irritation.
Serious Eye Damage/Irritation:	Causes serious eye irritation.
Respiratory or Skin Sensitization:	Components of this product may be absorbed into the body through the skin. Irritating to skin and mucus membranes.
Germ Cell Mutagenicity:	No mutagenic components identified.

Carcinogenicity:

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

Trade Name: CBH Buffer

Reproductive Toxicity:	No component toxic to reproduction.
Teratogenicity:	No data available.
Specific Target Organ Toxicity – Single Exposure:	Respiratory tract irritation.
Specific Target Organ Toxicity – Repeated Exposure:	No data available.
Aspiration Hazard:	No data available.
Signs and Symptoms of Exposure:	Irritating to eyes, respiratory system and skin. Narcotic effect.
Synergistic Effects:	No data available.
Additional Information:	None known.

12. ECOLOGICAL INFORMATION

Toxicity	No data available.
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil	Product is water soluble and may spread in water systems.
PBT and vPvB Assessment	No data available.
Other Adverse Effects	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. DISPOSAL CONSIDERATIONS

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

Trade Name: CBH Buffer

Contaminated Packaging

handling information and protection of employees.

Disposal must be made according to official regulations.

To minimize exposure, please refer to Section 8: Exposure Control/Personal Protection of this SDS.

14. TRANSPORT INFORMATION

DOT:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

15. REGULATORY INFORMATION

US Federal Regulations:

SARA 302 Components:	None present or none present in regulated quantities.
SARA 313 Components:	None present or none present in regulated quantities.
SARA 311/312 Hazards:	Acute health hazard, chronic health hazard.
OSHA Hazards:	
Aggravated Medical Conditions:	May cause nervous system disturbances.
Symptoms of Overexposure:	N/A
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.

US State Regulations:

California Prop. 65:	No ingredient regulated by CA Prop 65 present.
Massachusetts RTK	No ingredient regulated by MA Right to Know Act present.
New Jersey & Community RTK:	No ingredient regulated by NJ Right to Know Act present.
Pennsylvania RTK:	No ingredient regulated by PA Right to Know Act present.
Rhode Island RTK:	No ingredient regulated by RI Right to Know Act present.

Trade Name: CBH Buffer

16. OTHER INFORMATION

Issue Date:	11/11/2015
Revision Date:	03/13/2019
Version:	2.0
Further Information:	No data available.
Disclaimer:	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.

Trade Name: CPP Buffer

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: CPP Buffer

Manufacturer or Supplier Details

Company Name:	Omni International
Address:	935-C Cobb Place Blvd. Kennesaw, GA 30144, USA
Telephone:	1-800-776-4431
Email:	sales@omni-inc.com
Emergency Telephone:	If medical emergency, call 911.

Contact your local Poison Control Center.

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use:	For research use only.
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2. HAZARD IDENTIFICATION

Hazard Classification

Health Hazards:	No known OSHA Hazards
	Not a dangerous substance according GHS

GHS Label Element:

Hazard Symbol:	N/A
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Hazard Statements:	Not a hazardous substance or mixture.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture:	Mixture of non-hazardous substances.
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Trade Name: CPP Buffer

Synonyms or Common Names: N/A

4. FIRST AID MEASURES

General Advice: Wear protective gloves/protective clothing/eye protection/face protection

If Inhaled: If not breathing give artificial respiration

In Case of Skin Contact: Wash with soap and water.

In Case of Eye Contact: Remove contact lenses, if present and easy to do. Continue rinsing.

If Swallowed: N/A

Most Important Symptoms, and Effects, Acute and Delayed: N/A

Recommendations for Immediate Medical Attention and Special Treatment: Treat symptomatically. Symptoms may be delayed.

5. FIREFIGHTING MEASURES

Conditions of Flammability: Not flammable or combustible

Suitable Extinguishing Media: Dry powder, CO₂, water spray or regular foam.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: N/A

Further Information: Prevent firefighting water from entering surface water or groundwater

Trade Name: CPP Buffer

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid inhalation of vapors or mist. See Section 8: Exposure Controls/ Personal Protection for more information.
Environmental Precautions:	N/A
Emergency Procedures:	Evacuate personnel to safe areas and follow emergency response protocols.
Methods and Materials for Containment and Cleaning Up:	Use inert absorbent material to soak up spill.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors or mist.
Conditions for Safe Storage:	Keep container tightly closed in a dry, well-ventilated place.
Incompatible Products:	N/A

8. EXPOURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls: Adequate ventilation and access to eye washing stations are required.

Recommendations for Personal Protective Measures:

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 eyewear that has been approved by NIOSH.

Trade Name: CPP Buffer

Skin and Body Protection:	Wear appropriate laboratory attire when handling this product, such as gloves, long pants, closed-toe shoes and a laboratory coat.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be used
Hygiene Measures:	Avoid contact with eyes, skin and clothing. Wash hands thoroughly after using this product. Do not eat, drink or smoke when handling this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc:

N/A

Components with Workplace Control Parameters:

N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Liquid
Color	Colorless

Odor No data available

Odor Threshold No data available

pH No data available

Melting Point/Freezing Point No data available

Boiling Point No data available

Flash Point No data available

Evaporation Rate No data available

Flammability (Solid, Gas): No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper):	No data available
Flammability Limit (Lower):	No data available
Explosive Limit (Upper):	No data available
Explosive Limit (Lower):	No data available

Trade Name: CPP Buffer

Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	No data available
Solubility:	
Solubility in Water:	No data available
Solubility (Other):	No data available
Partition coefficient (n-octanol/water)	No data available
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No dangerous reactions known under conditions of normal use.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	N/A
Conditions to Avoid:	N/A
Materials to Avoid:	N/A
Hazardous Decomposition Products:	N/A

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation:	No data available
Ingestion:	No data available
Skin:	No data available
Eyes:	No data available

Trade Name: CPP Buffer

Information on Toxicological Effects:

Acute Toxicity:

Oral LD50:	No data available
Inhalation LC50:	No data available
Dermal LD50:	No data available
Other Information:	No data available
Skin Corrosion/Irritation:	No data available
Serious Eye Damage/Irritation:	No data available
Respiratory or Skin Sensitization:	No data available
Germ Cell Mutagenicity:	No data available

Carcinogenicity:

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

Reproductive Toxicity:

Teratogenicity:

Specific Target Organ Toxicity – Single Exposure:

Specific Target Organ Toxicity – Repeated Exposure:

Aspiration Hazard:

Signs and Symptoms of Exposure:

Synergistic Effects:

Additional Information:

No data available
No data available
No data available
No data available
No data available
No data available
No data available
None known

Trade Name: CPP Buffer

12. ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
PBT and vPvB Assessment	No data available
Other Adverse Effects	No data available

13. DISPOSAL CONSIDERATIONS

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.

Contaminated Packaging Disposal must be made according to official regulations

14. TRANSPORT INFORMATION

DOT:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

15. REGULATORY INFORMATION

US Federal Regulations:

SARA 302 Components:	None present or none present in regulated quantities.
SARA 313 Components:	None present or none present in regulated quantities.
SARA 311/312 Hazards:	No data available.

US State Regulations:

California Prop. 65:	No ingredient regulated by CA Prop 65 present.
Massachusetts RTK	No ingredient regulated by MA Right to Know Act present.
New Jersey & Community RTK:	Water CAS No. 7732-18-5

Trade Name: CPP Buffer

Pennsylvania RTK:
Rhode Island RTK:

Water CAS No. 7732-18-5
No ingredient regulated by RI Right to Know Act present.

16. OTHER INFORMATION

Issue Date:

11/11/2015

Revision Date:

03/13/2019

Version:

2.0

Further Information:

No data available.

Disclaimer:

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.

Trade Name: DW Buffer

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: DW Buffer

Manufacturer or Supplier Details

Company Name:	Omni International
Address:	935-C Cobb Place Blvd. Kennesaw, GA 30144, USA
Telephone:	1-800-776-4431
Email:	sales@omni-inc.com
Emergency Telephone:	If medical emergency, call 911.

Contact your local Poison Control Center.

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use:	For research use only.
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2. HAZARD IDENTIFICATION

Hazard Classification

Health Hazards:	No known OSHA Hazards
	Not a dangerous substance according GHS

GHS Label Element:

Hazard Symbol:	N/A
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Hazard Statements:	Not a hazardous substance or mixture.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture:	Mixture of non-hazardous substances.
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Trade Name: DW Buffer

Synonyms or Common Names: N/A

4. FIRST AID MEASURES

General Advice: Wear protective gloves/protective clothing/eye protection/face protection

If Inhaled: If not breathing give artificial respiration

In Case of Skin Contact: Wash with soap and water.

In Case of Eye Contact: Remove contact lenses, if present and easy to do. Continue rinsing.

If Swallowed: N/A

Most Important Symptoms, and Effects, Acute and Delayed: N/A

Recommendations for Immediate Medical Attention and Special Treatment: Treat symptomatically. Symptoms may be delayed.

5. FIREFIGHTING MEASURES

Conditions of Flammability: Not flammable or combustible

Suitable Extinguishing Media: Dry powder, CO₂, water spray or regular foam.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: N/A

Further Information: Prevent Firefighting water from entering surface water or groundwater

Trade Name: DW Buffer

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid inhalation of vapors or mist. See Section 8: Exposure Controls/ Personal Protection for more information.
Environmental Precautions:	N/A
Emergency Procedures:	Evacuate personnel to safe areas and follow emergency response protocols.
Methods and Materials for Containment and Cleaning Up:	Use inert absorbent material to soak up spill.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors or mist.
Conditions for Safe Storage:	Keep container tightly closed in a dry, well-ventilated place.
Incompatible Products:	N/A

8. EXPOURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls: Adequate ventilation and access to eye washing stations are required.

Recommendations for Personal Protective Measures:

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 eyewear that has been approved by NIOSH.

Trade Name: DW Buffer

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

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be used

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly after using this product. Do not eat, drink or smoke when handling this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc:

N/A

Components with Workplace Control Parameters:

N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form

Liquid

Color

Colorless

Odor

No data available

Odor Treshhold

No data available

pH

7.0-9.0

Melting Point/Freezing Point

No data available

Boiling Point

No data available

Flash Point

No data available

Evaporation Rate

No data available

Flammability (Solid, Gas):

No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper): No data available

Flammability Limit (Lower): No data available

Explosive Limit (Upper): No data available

Explosive Limit (Lower): No data available

Trade Name: DW Buffer

Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	No data available
Solubility:	
Solubility in Water:	No data available
Solubility (Other):	No data available
Partition coefficient (n-octanol/water)	No data available
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No dangerous reactions known under conditions of normal use.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	N/A
Conditions to Avoid:	N/A
Materials to Avoid:	N/A
Hazardous Decomposition Products:	N/A

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation:	No data available
Ingestion:	No data available
Skin:	No data available
Eyes:	No data available

Information on Toxicological Effects:

Acute Toxicity:	
Oral LD50:	No data available

Trade Name: DW Buffer

Inhalation LC50:	No data available
Dermal LD50:	No data available
Other Information:	No data available
Skin Corrosion/Irritation:	No data available
Serious Eye Damage/Irritation:	No data available
Respiratory or Skin Sensitization:	No data available
Germ Cell Mutagenicity:	No data available

Carcinogenicity:

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

Reproductive Toxicity:	No data available
Teratogenicity:	No data available
Specific Target Organ Toxicity – Single Exposure:	No data available
Specific Target Organ Toxicity – Repeated Exposure:	No data available
Aspiration Hazard:	No data available
Signs and Symptoms of Exposure:	No data available
Synergistic Effects:	No data available
Additional Information:	No data available

12. ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available

Trade Name: DW Buffer

Mobility in Soil	No data available
PBT and vPvB Assessment	No data available
Other Adverse Effects	No data available

13. DISPOSAL CONSIDERATIONS

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.

Contaminated Packaging

Disposal must be made according to official regulations

14. TRANSPORT INFORMATION

DOT:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

15. REGULATORY INFORMATION

US Federal Regulations:

SARA 302 Components:	None present or none present in regulated quantities.
SARA 313 Components:	None present or none present in regulated quantities.
SARA 311/312 Hazards:	No data available.

US State Regulations:

California Prop. 65:	No ingredient regulated by CA Prop 65 present.
Massachusetts RTK	No ingredient regulated by MA Right to Know Act present.
New Jersey & Community RTK:	Water CAS No. 7732-18-5
Pennsylvania RTK:	Water CAS No. 7732-18-5
Rhode Island RTK:	No ingredient regulated by RI Right to Know Act present.

Trade Name: DW Buffer

16. OTHER INFORMATION

Issue Date: 11/11/2015
Revision Date: 03/13/2019
Version: 2.0
Further Information: No data available.
Disclaimer:

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.

Trade Name: EB Buffer

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: EB Buffer

Manufacturer or Supplier Details

Company Name: Omni International
Address: 935-C Cobb Place Blvd.
Kennesaw, GA 30144, USA
Telephone: 1-800-776-4431
Email: sales@omni-inc.com
Emergency Telephone: If medical emergency, call 911.

Contact your local Poison Control Center.

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

2. HAZARD IDENTIFICATION

Hazard Classification

Health Hazards: No known OSHA Hazards
Not a dangerous substance according GHS

GHS Label Element:

Hazard Symbol: N/A

Hazard Statements: Not a hazardous substance or mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture of non-hazardous substances.

Trade Name: EB Buffer

Synonyms or Common Names: N/A

4. FIRST AID MEASURES

General Advice: Wear protective gloves/protective clothing/eye protection/face protection

If Inhaled: If not breathing give artificial respiration

In Case of Skin Contact: Wash with soap and water.

In Case of Eye Contact: Remove contact lenses, if present and easy to do. Continue rinsing.

If Swallowed: N/A

Most Important Symptoms, and Effects, Acute and Delayed: N/A

Recommendations for Immediate Medical Attention and Special Treatment: Treat symptomatically. Symptoms may be delayed.

5. FIREFIGHTING MEASURES

Conditions of Flammability: Not flammable or combustible

Suitable Extinguishing Media: Dry powder, CO₂, water spray or regular foam.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: N/A

Further Information: Prevent firefighting water from entering surface water or groundwater

Trade Name: EB Buffer

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid inhalation of vapors or mist. See Section 8: Exposure Controls/ Personal Protection for more information.
Environmental Precautions:	N/A
Emergency Procedures:	Evacuate personnel to safe areas and follow emergency response protocols.
Methods and Materials for Containment and Cleaning Up:	Use inert absorbent material to soak up spill.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors or mist.
Conditions for Safe Storage:	Keep container tightly closed in a dry, well-ventilated place.
Incompatible Products:	N/A

8. EXPOURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls: Adequate ventilation and access to eye washing stations are required.

Recommendations for Personal Protective Measures:

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 eyewear that has been approved by NIOSH.

Trade Name: EB Buffer

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

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be used

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly after using this product. Do not eat, drink or smoke when handling this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc:

N/A

Components with Workplace Control Parameters:

N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form

Liquid

Color

Colorless

Odor

No data available

Odor Threshold

No data available

pH

8.0-9.0

Melting Point/Freezing Point

No data available

Boiling Point

No data available

Flash Point

No data available

Evaporation Rate

No data available

Flammability (Solid, Gas):

No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper): No data available

Flammability Limit (Lower): No data available

Explosive Limit (Upper): No data available

Explosive Limit (Lower): No data available

Trade Name: EB Buffer

Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	No data available
Solubility:	
Solubility in Water:	No data available
Solubility (Other):	No data available
Partition coefficient (n-octanol/water)	No data available
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No dangerous reactions known under conditions of normal use.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	N/A
Conditions to Avoid:	N/A
Materials to Avoid:	N/A
Hazardous Decomposition Products:	N/A

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation:	No data available
Ingestion:	No data available
Skin:	No data available
Eyes:	No data available

Information on Toxicological Effects:

Acute Toxicity:	
Oral LD50:	No data available

Trade Name: EB Buffer

Inhalation LC50:	No data available
Dermal LD50:	No data available
Other Information:	No data available
Skin Corrosion/Irritation:	No data available
Serious Eye Damage/Irritation:	No data available
Respiratory or Skin Sensitization:	No data available
Germ Cell Mutagenicity:	No data available

Carcinogenicity:

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

Reproductive Toxicity:	No data available
Teratogenicity:	No data available
Specific Target Organ Toxicity – Single Exposure:	No data available
Specific Target Organ Toxicity – Repeated Exposure:	No data available
Aspiration Hazard:	No data available
Signs and Symptoms of Exposure:	No data available
Synergistic Effects:	No data available
Additional Information:	No data available

12. ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available

Trade Name: EB Buffer

Mobility in Soil	No data available
PBT and vPvB Assessment	No data available
Other Adverse Effects	No data available

13. DISPOSAL CONSIDERATIONS

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.

Contaminated Packaging

Disposal must be made according to official regulations

14. TRANSPORT INFORMATION

DOT:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

15. REGULATORY INFORMATION

US Federal Regulations:

SARA 302 Components:	None present or none present in regulated quantities.
SARA 313 Components:	None present or none present in regulated quantities.
SARA 311/312 Hazards:	No data available.

US State Regulations:

California Prop. 65:	No ingredient regulated by CA Prop 65 present.
Massachusetts RTK	No ingredient regulated by MA Right to Know Act present.
New Jersey & Community RTK:	Water CAS No. 7732-18-5
Pennsylvania RTK:	Water CAS No. 7732-18-5
Rhode Island RTK:	No ingredient regulated by RI Right to Know Act present.

Trade Name: EB Buffer

16. OTHER INFORMATION

Issue Date:	11/11/2015
Revision Date:	03/13/2019
Version:	2.0
Further Information:	No data available.
Disclaimer:	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.

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: Protease Solution

Manufacturer or Supplier Details

Company Name:	Omni International
Address:	935-C Cobb Place Blvd. Kennesaw, GA 30144, USA
Telephone:	1-800-776-4431
Email:	sales@omni-inc.com
Emergency Telephone:	If medical emergency, call 911.

Contact your local Poison Control Center.

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

2. HAZARD IDENTIFICATION

Hazard Classification:

OSHA Hazards:	Respiratory sensitizer, irritant	
Health Hazards:	Skin corrosion/irritation	Category 3
	Respiratory sensitization	Category 1

GHS Label Element:



Hazard Symbol:

Signal word:

Danger

Hazard Statements:

H316 - Causes mild skin irritation.
H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements:

P261- Avoid breathing dust/fumes/gas/mist/vapors/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P284 - In case of inadequate ventilation, wear respiratory protection.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332 + P 313 - If skin irritation occurs: Get medical advice/attention.
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Potential Health Effects:

Aggravated Medical Conditions:	N/A
Symptoms of Overexposure:	N/A
Inhalation:	May cause sensitization by inhalation.
Skin:	May cause mild skin irritation.
Eyes:	May cause eye irritation.
Ingestion:	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Carcinogenicity:

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

identified as probable, possible or confirmed human carcinogen by OSHA.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture of the substances listed below with non-hazardous additions.

Synonyms/Common Names Endopeptidase K

Chemical Name	CAS No.	Concentration (%)
Proteinase K	39450-01-6	1-5%
Glycerol	56-81-5	30-60%

4. FIRST AID MEASURES

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

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

In Case of Skin Contact: Wash off with soap and plenty of water. Consult a physician.

In Case of Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

Most Important Symptoms, and Effects, Acute and Delayed: N/A

Recommendations for Immediate Medical Attention and Special Treatment: Treat symptomatically. Symptoms may be delayed.

5. FIREFIGHTING MEASURES

Conditions of Flammability:	Not flammable or combustible.
Suitable Extinguishing Media:	Dry powder, CO ₂ , water spray or regular foam.
Special Protective Equipment for Firefighters:	Wear self-contained breathing apparatus, if necessary.
Hazardous Combustion Products:	N/A
Further Information:	N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment. Avoid aerosolization. Avoid breathing vapors or mist. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions:	Do not let product enter drains.
Emergency Procedures:	Evacuate personnel to safe areas and follow emergency response protocols.
Methods and Materials for Containment and Cleaning Up:	Absorb on sand or vermiculite and place in closed containers for disposal. Pick up and transfer to properly labeled containers. Ensure proper ventilation and cleaning of spill site.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist
Conditions for Safe Storage:	Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2-8°C.
Incompatible Products:	N/A

8. EXPOURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls: Adequate ventilation and access to eye washing stations are required.

Recommendations for Personal Protective Measures:

- 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 eyewear 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 a laboratory coat.
- Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be used.
- Hygiene Measures:** Avoid contact with eyes, skin and clothing. Wash hands thoroughly after using this product. Do not eat, drink or smoke when handling this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc:

N/A

Components with Workplace Control Parameters:

Components	CAS No.	Value	Control Parameters	Basis
Glycerol	56-81-5	PEL (Total dust)	15 mg/m ³	USA. OSHA Table Z-1 Limits for Air Contaminants
		PEL (Respirable fraction)	5 mg/m ³	USA. OSHA Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m ³	USA. OSHA Table Z-1 Limits for Air Contaminants

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form

Liquid

Color

Slightly Yellow

Odor

No data available

Odor Threshold

No data available

pH

No data available

Melting Point/Freezing Point

No data available

Boiling Point

No data available

Flash Point

No data available

Evaporation Rate

No data available

Flammability (Solid, Gas):

No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper):

No data available

Flammability Limit (Lower):

No data available

Explosive Limit (Upper):

No data available

Explosive Limit (Lower):

No data available

Vapor Pressure:

No data available

Vapor Density:

No data available

Relative Density:

No data available

Solubility:

Solubility in Water:

No data available

Solubility (Other):

No data available

Partition coefficient (n-octanol/water)

No data available

Auto-Ignition Temperature:

No data available

Decomposition Temperature:

No data available

Viscosity:

No data available

10. STABILITY AND REACTIVITY

Reactivity:

No dangerous reactions known under conditions of normal use.

Chemical Stability:

Stable under recommended storage conditions.

Possibility of Hazardous Reactions:

N/A

Conditions to Avoid:

N/A

Materials to Avoid: N/A
Hazardous Decomposition Products: N/A

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation:	May cause sensitization by inhalation.
Ingestion:	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin:	May cause mild skin irritation.
Eyes:	May cause eye irritation

Information on Toxicological Effects:

Acute Toxicity:	Proteinase K	Glycerol
Oral LD50:	No data available.	12,600 mg/kg (rat)
Inhalation LC50:	No data available.	> 570 mg/m ³ (rat)
Dermal LD50:	No data available.	> 10,000 mg/kg (rabbit)
Other Information:	No data available.	No data available.
Skin Corrosion/Irritation:	No data available.	Mild skin irritation, 24 hrs (rabbit)
Serious Eye Damage/Irritation:	No data available.	Mild eye irritation, 24 hrs (rabbit)
Respiratory or Skin Sensitization:	No data available.	No data available.
Germ Cell Mutagenicity:	No data available.	No data available.

Carcinogenicity:

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

Reproductive Toxicity:	No data available.
Teratogenicity:	No data available.
Specific Target Organ Toxicity – Single Exposure:	No data available.
Specific Target Organ Toxicity – Repeated Exposure:	No data available.
Aspiration Hazard:	No data available.
Signs and Symptoms of Exposure:	No data available.
Synergistic Effects:	No data available.
Additional Information:	No data available.

12. ECOLOGICAL INFORMATION

Toxicity	No data available.
Toxicity to Fish LC50:	> 5,000 mg/L Carassius Auratus (goldfish) 44,000 mg/L Pimephales Promelas (fathead minnow) 67,500 mg/L Oncorhynchus Mykiss (rainbow trout) > 100,100 mg/L other fish
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil	Product is water soluble and may spread in water systems.
PBT and vPvB Assessment	No data available.
Other Adverse Effects	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. DISPOSAL CONSIDERATIONS

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.
Contaminated Packaging	Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

DOT: Not considered dangerous goods.
IMDG: Not considered dangerous goods.
IATA: Not considered dangerous goods.

15. REGULATORY INFORMATION

US Federal Regulations:

SARA 302 Components: None present or none present in regulated quantities.
SARA 313 Components: None present or none present in regulated quantities.
SARA 311/312 Hazards: Chronic health hazard
OSHA Hazards: Respiratory sensitizer, irritant.

US State Regulations:

California Prop. 65:	No ingredient regulated by CA Prop 65 present.
Massachusetts RTK	Glycerol 56-81-5
Pennsylvania RTK:	Water 7732-18-5
	Glycerol 56-81-5
Rhode Island RTK:	Water 7732-18-5
	Glycerol 56-81-5

16. OTHER INFORMATION

Issue Date: 11/11/2015
Revision Date: 03/13/2019
Version: 2.0
Further Information: No data available.
Disclaimer: 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.

Trade Name: SD Buffer

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: SD Buffer

Manufacturer or Supplier Details

Company Name:	Omni International
Address:	935-C Cobb Place Blvd. Kennesaw, GA 30144, USA
Telephone:	1-800-776-4431
Email:	sales@omni-inc.com
Emergency Telephone:	If medical emergency, call 911.

Contact your local Poison Control Center.

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

2. HAZARD IDENTIFICATION

Hazard Classification:

OSHA Hazards:	Corrosive, irritant	
Health Hazards:	Acute toxicity Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity – single exposure	Category 3 Category 2 Category 1 Category 3

GHS Label Element:

Hazard Symbol:
Signal word:



Danger

Trade Name: SD Buffer

Hazard Statements:

H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.
H402 - Harmful to aquatic life

Precautionary Statements:

P261 - Avoid breathing dust/fumes/gas/mist/vapors/spray.
P264 - Wash skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release into the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to an approved waste disposal plant.

Potential Health Effects:

Aggravated Medical Conditions:
Symptoms of Overexposure:
Inhalation:

May cause nervous system disturbances.
N/A
May cause respiratory irritation.

Trade Name: SD Buffer

Skin:	Causes skin irritation
Eyes:	Causes serious eye damage.
Ingestion:	May be harmful if swallowed.

Carcinogenicity:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture of the substances listed below with non-hazardous additions.

Synonyms/Common Names Sodium dodecyl sulfate, Sodium lauryl sulfate solution, Lauryl sulfate sodium salt, SDS

Chemical Name	CAS No.	Concentration (%)
Sodium dodecyl sulfate C ₁₂ H ₂₅ NaO ₄ S	151-21-3	15-30%

Trade Name: SD Buffer

4. FIRST AID MEASURES

General Advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If Inhaled:	Move to fresh air. If not breathing, give artificial respiration. Seek medical attention.
In Case of Skin Contact:	Wash with soap and plenty of water. Consult a physician.
In Case of Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If Swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most Important Symptoms, and Effects, Acute and Delayed:	The most important known symptoms and effects are described in the labelling Section 2 or Section 11.
Recommendations for Immediate Medical Attention and Special Treatment:	N/A

5. FIREFIGHTING MEASURES

Conditions of Flammability:	Not flammable or combustible.
Suitable Extinguishing Media:	Dry powder, CO ₂ , water spray or regular foam.
Special Protective Equipment for Firefighters:	Wear self-contained breathing apparatus, if necessary.
Hazardous Combustion Products:	Carbon oxides, sulfur oxides, sodium oxides
Further Information:	Prevent Firefighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear respiratory protection when ventilation is inadequate. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate
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Trade Name: SD Buffer

personnel to safe areas. Keep away from heat and sources of ignition. See Section 8: Exposure Controls/Personal Protection for more details.

Environmental Precautions:

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

Emergency Procedures:

Evacuate personnel to safe areas and follow emergency response protocols.

Methods and Materials for Containment and Cleaning Up:

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

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid contact with skin and eyes. Avoid inhalation of vapors or mist.

Conditions for Safe Storage:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatible Products:

N/A

8. EXPOURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls: Adequate ventilation and access to eye washing stations are required.

Recommendations for Personal Protective Measures:

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 eyewear that has been approved by NIOSH.

Skin and Body Protection:

Wear appropriate laboratory attire when handling this product, such

Trade Name: SD Buffer

as gloves, long pants, closed-toe shoes and a laboratory coat.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be used.

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly after using this product. Do not eat, drink or smoke when handling this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc:

N/A

Components with Workplace Control Parameters:

N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Liquid
Color	Yellow

Odor	No data available
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Odor Threshold	No data available
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pH	8.0-9.0
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Melting Point/Freezing Point	No data available
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Boiling Point	No data available
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Flash Point	No data available
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Evaporation Rate	No data available
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Flammability (Solid, Gas):	No data available
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Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper):	No data available
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Flammability Limit (Lower):	No data available
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Explosive Limit (Upper):	No data available
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Explosive Limit (Lower):	No data available
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Trade Name: SD Buffer

Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	No data available
Solubility:	
Solubility in Water:	No data available
Solubility (Other):	No data available
Partition coefficient (n-octanol/water)	No data available
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	No data available
Conditions to Avoid:	No data available
Materials to Avoid:	No data available
Hazardous Decomposition Products:	No data available

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation:	May cause respiratory tract irritation.
Ingestion:	Harmful if swallowed.
Skin:	Causes skin irritation.
Eyes:	Causes serious eye damage.

Information on Toxicological Effects:

Acute Toxicity:

Oral LD50:	1,288 mg/kg (Rat)
Inhalation LC50:	> 3,900 mg/m ³ (Rat) - 1 hr

Trade Name: SD Buffer

Dermal LD50:	580 mg/kg (Rabbit)
Other Information:	No data available.
Skin Corrosion/Irritation:	No data available.
Serious Eye Damage/Irritation:	No data available.
Respiratory or Skin Sensitization:	No data available.
Germ Cell Mutagenicity:	No data available.

Carcinogenicity:

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

Reproductive Toxicity:	No data available.
Teratogenicity:	No data available.
Specific Target Organ Toxicity – Single Exposure:	No data available.
Specific Target Organ Toxicity – Repeated Exposure:	No data available.
Aspiration Hazard:	No data available.
Signs and Symptoms of Exposure:	No data available.
Synergistic Effects:	No data available.
Additional Information:	No data available.

12. ECOLOGICAL INFORMATION

Toxicity	No data available.
Persistence and Degradability	No data available.

Trade Name: SD Buffer

Bioaccumulative Potential
Mobility in Soil
PBT and vPvB Assessment
Other Adverse Effects

No data available.
No data available.
No data available.
Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

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.

Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

DOT:
IMDG:
IATA:

Not dangerous goods.
Not dangerous goods.
Not dangerous goods.

15. REGULATORY INFORMATION

US Federal Regulations:

SARA 302 Components:
SARA 313 Components:
SARA 311/312 Hazards:
OSHA Hazards:

None present or none present in regulated quantities.
None present or none present in regulated quantities.
Acute health hazard, chronic health hazard.
Corrosive, irritant.

US State Regulations:

California Prop. 65:
Massachusetts RTK
New Jersey & Community RTK:

No ingredient regulated by CA Prop 65 present.
No ingredient regulated by MA Right to Know Act present.

Component(s)	Cas No.
Sodium dodecyl sulfate	151-23-3
Water	7732-18-5

Trade Name: SD Buffer

Pennsylvania RTK:
Rhode Island RTK:

No ingredient regulated by PA Right to Know Act present.
No ingredient regulated by RI Right to Know Act present.

16. OTHER INFORMATION

Issue Date:

11/11/2015

Revision Date:

03/13/2019

Version:

2.0

Further Information:

No data available.

Disclaimer:

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.

Trade Name: XLSM Buffer

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: XLSM Buffer

Manufacturer or Supplier Details

Company Name:	Omni International
Address:	935-C Cobb Place Blvd. Kennesaw, GA 30144, USA
Telephone:	1-800-776-4431
Email:	sales@omni-inc.com
Emergency Telephone:	If medical emergency, call 911.

Contact your local Poison Control Center.

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use:	For research use only.
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2. HAZARD IDENTIFICATION

Hazard Classification

Health Hazards:	No known OSHA Hazards
	Not a dangerous substance according GHS

GHS Label Element:

Hazard Symbol:	N/A
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Hazard Statements:	Not a hazardous substance or mixture.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture:	Mixture of non-hazardous substances.
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Trade Name: XLSM Buffer

Synonyms or Common Names: N/A

4. FIRST AID MEASURES

General Advice: Wear protective gloves/protective clothing/eye protection/face protection

If Inhaled: If not breathing give artificial respiration

In Case of Skin Contact: Wash with soap and water.

In Case of Eye Contact: Remove contact lenses, if present and easy to do. Continue rinsing.

If Swallowed: N/A

Most Important Symptoms, and Effects, Acute and Delayed: N/A

Recommendations for Immediate Medical Attention and Special Treatment: Treat symptomatically. Symptoms may be delayed.

5. FIREFIGHTING MEASURES

Conditions of Flammability: Not flammable or combustible

Suitable Extinguishing Media: Dry powder, CO₂, water spray or regular foam.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: N/A

Further Information: Prevent Firefighting water from entering surface water or groundwater

Trade Name: XLSM Buffer

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid inhalation of vapors or mist. See Section 8: Exposure Controls/ Personal Protection for more information.
Environmental Precautions:	N/A
Emergency Procedures:	Evacuate personnel to safe areas and follow emergency response protocols.
Methods and Materials for Containment and Cleaning Up:	Use inert absorbent material to soak up spill.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors or mist.
Conditions for Safe Storage:	Keep container tightly closed in a dry, well-ventilated place.
Incompatible Products:	N/A

8. EXPOURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls: Adequate ventilation and access to eye washing stations are required.

Recommendations for Personal Protective Measures:

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 eyewear that has been approved by NIOSH.

Trade Name: XLSM Buffer

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

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be used

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly after using this product. Do not eat, drink or smoke when handling this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc:

N/A

Components with Workplace Control Parameters:

N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Liquid

Color Colorless

Odor No data available

Odor Threshold No data available

pH 7.0-9.0

Melting Point/Freezing Point No data available

Boiling Point No data available

Flash Point No data available

Evaporation Rate No data available

Flammability (Solid, Gas): No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper): No data available

Flammability Limit (Lower): No data available

Explosive Limit (Upper): No data available

Explosive Limit (Lower): No data available

Trade Name: XLSM Buffer

Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	No data available
Solubility:	
Solubility in Water:	No data available
Solubility (Other):	No data available
Partition coefficient (n-octanol/water)	No data available
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No dangerous reactions known under conditions of normal use.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	N/A
Conditions to Avoid:	N/A
Materials to Avoid:	N/A
Hazardous Decomposition Products:	N/A

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation:	No data available
Ingestion:	No data available
Skin:	No data available
Eyes:	No data available

Information on Toxicological Effects:

Trade Name: XLSM Buffer

Acute Toxicity:

Oral LD50:	No data available
Inhalation LC50:	No data available
Dermal LD50:	No data available
Other Information:	No data available
Skin Corrosion/Irritation:	No data available
Serious Eye Damage/Irritation:	No data available
Respiratory or Skin Sensitization:	No data available
Germ Cell Mutagenicity:	No data available

Carcinogenicity:

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

Reproductive Toxicity:	No data available
Teratogenicity:	No data available
Specific Target Organ Toxicity – Single Exposure:	No data available
Specific Target Organ Toxicity – Repeated Exposure:	No data available
Aspiration Hazard:	No data available
Signs and Symptoms of Exposure:	No data available
Synergistic Effects:	No data available
Additional Information:	None known

12. ECOLOGICAL INFORMATION

Trade Name: XLSM Buffer

Toxicity	No data available
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
PBT and vPvB Assessment	No data available
Other Adverse Effects	No data available

13. DISPOSAL CONSIDERATIONS

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.

Contaminated Packaging

Disposal must be made according to official regulations

14. TRANSPORT INFORMATION

DOT:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

15. REGULATORY INFORMATION

US Federal Regulations:

SARA 302 Components:	None present or none present in regulated quantities.
SARA 313 Components:	None present or none present in regulated quantities.
SARA 311/312 Hazards:	No data available.

US State Regulations:

California Prop. 65:	No ingredient regulated by CA Prop 65 present.
Massachusetts RTK	No ingredient regulated by MA Right to Know Act present.
New Jersey & Community RTK:	Water CAS No. 7732-18-5
Pennsylvania RTK:	Water CAS No. 7732-18-5
Rhode Island RTK:	No ingredient regulated by RI Right to Know Act present.

Trade Name: XLSM Buffer

16. OTHER INFORMATION

Issue Date:	11/11/2015
Revision Date:	03/13/2019
Version:	2.0
Further Information:	No data available.
Disclaimer:	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.