

Trade Name: BB Buffer

Revision: 11/11/2015

Telephone: 1(800) 776-4431

Email: sales@omni-inc.com

www.omni-inc.com

Version: 1.0

#### 1. IDENTIFICATION OF PRODUCT AND COMPANY

## 1.1. Identification and Product Name

Product Name: BB Buffer

#### 1.2. Intended Use

Research Use Only

## 1.3. Manufacturer

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

## 1.4. Emergency Telephone

If medical emergency, call 911.

Contact your local Poison Control Center.

#### 2. HAZARD IDENTIFICATION

# 2.1 Emergency Overview

**OSHA Hazards** 

Target Organ Effect, Toxic by ingestion, Irritant

**GHS** Classification

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



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**GHS Symbols** 



Signal Word: WARNING

Hazard Statement(s): H302 Harmful if swallowed H315 Causes skin irritation

H319 Causes serious eye irritation

H331 Toxic if inhaled

Precautionary Statement(s): P261 Avoid breathing dust / fume / gas /

mist/vapors/spray

P305 + P351+P338 IF IN EYE: Rinse

cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P311 Call a POISON CENTER or doctor

# 2.2 HMIS Classification (Scale 0-4)

Health Hazard 2 Flammability 0 Physical Hazards 0

## 2.3 NFPA Rating (Scale 0-4)

Health Hazard 2 Fire 0 Reactivity Hazard 0

#### 2.4 Potential Health Effects

Inhalation Toxic if inhaled. May cause respiratory tract irritation
Skin Harmful if absorbed through skin. May cause skin irritation

Eyes Causes eye irritation Ingestion Harmful if swallowed

Aggrevated Medical

Condition

May cause nervous system disturbances.

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#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Chemical Characterization

Mixture of the substances listed below with nonhazardous additions.

# 3.2 Synonyms

Guanidinium Chloride Guanidine monohydrochloride Guanidinium hydrochloride

3.3 Component	Classification	Concentration
Guanidine Hydrochloride	Acute Tox. 4; Skin Irrit. 2; Eye Irrt. 2; H302	50-100%
CH6CCIN3	H315, H319	
CAS-No.	50.01.1	
EC-No.	200-002-3	
Index-No.	607-148-00-0	
Refer to section 16 for full text of H-Statements and R-Phrases		

#### 4. FIRST AID MEASURES

#### 4.1 General Advice

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

#### 4.2 If Inhaled

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

#### 4.3 In Case of Skin Contact

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

# 4.4 In Case of Eye Contact

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

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#### 4.5 If Swallowed

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

### 5. FIREFIGHTING MEASURES

# 5.1 Conditions of Flammability

Not flammable or combustible.

## 5.2 Suitable Extinguishing Media

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

# **5.3 Special Protective Equipment for Firefighters**

Wear self-contained breathing apparatus, if necessary.

## **5.4 Hazardous Combustion Products**

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

#### 5.5 Further Information

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

#### 6. ACCIDENTAL RELEASE MEASURES

#### **6.1 Personal Precautions**

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

#### **6.2 Environmental Precautions**

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

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# 6.3 Methods and Materials for Containment and Cleaning Up

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

### 7. HANDLING AND STORAGE

## 7.1 Precautions for Safe Handling

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

## 7.2 Conditions for Safe Storage

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

## 7.3 Incompatible Products

Strong oxidizing agents

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

### **8.1 Personal Protective Equipment**

## **Respiratory Protection**

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

#### **Hand Protection**

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

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# **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

No data available рН 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 No data available **Evaporation Rate** 

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#### 10. STABILITY AND REACTIVITY

# **10.1 Chemical Stability**

Stable under recommended storage conditions.

## **10.2 Possibility of Hazardous**

no data available

#### 10.3 Conditions to Avoid

Heating

#### 10.4 Materials to Avoid

Strong oxidizing agents, Strong acids, Organic materials

# 10.5 Hazardous Decomposition Products.

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

### 11. TOXICOLOGICAL INFORMATION

**11.1 Acute Toxicity** 

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

**11.2 Skin Corrosion/Irritation**No data available

11.3 Serious Eye Damage/Eye Irritation

Eyes No data available

**11.4 Respiratory or Skin Sensitization** Components of the product may be absorbed

into the body through the skin irritating the

skin and muscle membranes.

11.5 Germ Cell Mutagenicity No data available

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11.6 Carcinogenicity

IARC No component of this product that is present at

levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen

by IARC.

NTP No component of this product that is present at levels

greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen

by NTP.

OSHA No component of this product that is present at

levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen

by OSHA.

11.7 Reproductive Toxicity No data available

11.8 Teratogenicity No data available

11.9 Specific Target Organ Toxicity -

**Single Exposure** 

No data available

11.10 Specific Target Organ Toxicity -

**Repeated Exposure** 

No data available

11.11 Aspiration Hazard No data available

11.12 Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract

irritation.

Ingestion Toxic if swallowed

Skin May be harmful if absorbed through skin. Causes

skin irritation

Eyes Causes eye irritation

**11.13 Signs and Symptoms of Exposure** To the best of our knowledge, the chemical,

physical and toxicological properties have not

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been thoroughly investigated

**11.14 Synergistic Effects** No data available



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## 11.15 Additional Information

### 12. ECOLOGICAL INFORMATION

**12.1 Toxicity** No data available

**12.2 Persistence and Degradability**No data available

**12.3 Bioacumulative Potential**No data available

**12.4 Mobility in Soil** No data available

**12.5 PBT and vPvB Assessment**No data available

**12.6 Other Adverse Effects** Harmful to aquatic life

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Product

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

S29 - Do not empty into drains

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

## 13.2 Contaminated Packaging

Disposal must be made according to official regulations.

#### 14. TRANSPORT INFORMATION

**14.1 DOT (US)** Not considered dangerous goods.

**14.2 IMDG** Not considered dangerous goods.

**14.3** IATA Not considered dangerous goods.



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#### 15. REGULATORY INFORMATION

## 15.1 OSHA Hazards

Target Organ Effect, Toxic by ingestion, Irritant

# 15.2 SARA 302 Components

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

## 15.3 SARA 313 Components

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

#### 15.4 SARA 311/312 Hazards

Acute Health Hazard, Chronic 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

Acute Tox. Acute Toxicity
Eye Irrit. Eye Irritation

H302 Harmful if swallowed H315 Causes skin irritation

H319 Causes serious eye irritation

Skin Irrit. Skin irritation

#### 16.2 Further Information

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



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#### 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

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# 1.4. Emergency Telephone

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

#### 2. HAZARD IDENTIFICATION

## 2.1 Emergency Overview

**OSHA Hazards** 

No known OSHA Hazards Not a dangerous substance according GHS

**GHS Classification** 

Not a dangerous substance according GHS



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# 2.2 HMIS Classification (Scale 0-4)

Health Hazard 0 Flammability 0 Physical Hazards 0

## 2.3 NFPA Rating (Scale 0-4)

Health Hazard 0 Fire 0 Reactivity Hazard 0

## 2.4 Potential Health Effects

Inhalation May cause respiratory tract irritation.

Skin Eyes

Ingestion May be harmful if swallowed.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Chemical Characterization

Mixture of the substances listed below with nonhazardous additions.

3.2 Synonyms

N/A

3.3 Component Classification Concentration

N/A

## 4. FIRST AID MEASURES

4.1 General Advice

4.2 If Inhaled

If not breathing give artificial respiration.

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4.3 In Case of Skin Contact

N/A

- 4.4 In Case of Eye Contact
- 4.5 If Swallowed

N/A

#### 5. FIREFIGHTING MEASURES

5.1 Conditions of Flammability

Not flammable or combustible.

5.2 Suitable Extinguishing Media

Dry powder, CO<sub>2</sub>, water spray, or alcohol-resistant foam.

**5.3 Special Protective Equipment for Firefighters** 

Wear self-contained breathing apparatus, if necessary.

**5.4 Hazardous Combustion Products** 

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.

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#### 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

#### **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.

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# **Skin and Body Protection**

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

# **Hygiene Measures**

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Appearance

Form Liquid Color Colorless

# 9.2 Safety Data

рН 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

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## **10.1 Chemical Stability**

Stable under recommended storage conditions.

10.2 Possibility of Hazardous

N/A

10.3 Conditions to Avoid

N/A

10.4 Materials to Avoid

N/A

10.5 Hazardous Decomposition Products.

N/A

#### 11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

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

11.2 Skin Corrosion/Irritation No data available

11.3 Serious Eye Damage/Eye Irritation

Eyes No data available

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

11.5 Germ Cell Mutagenicity

No data available

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11.6 Carcinogenicity

ARC No component of this product that is present

at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

NTP No component of this product that is present

at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by NTP.

OSHA No component of this product that is present

at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by OSHA.

11.7 Reproductive Toxicity

No data available

11.8 Teratogenicity No data available

**11.9 Specific Target Organ Toxicity - Single Exposure**No data available

**11.10 Specific Target Organ Toxicity - Repeated Exposure**No data available

**11.11 Aspiration Hazard**No data available

11.12 Potential Health Effects

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

11.13 Signs and Symptoms of Exposure

11.14 Synergistic Effects No data available

**11.15 Additional Information** RTECS; not available

12. ECOLOGICAL INFORMATION

**12.1 Toxicity** No data available

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**12.2 Persistence and Degradability**No data available

**12.3 Bioacumulative Potential**No data available

**12.4 Mobility in Soil** No data available

**12.5 PBT and vPvB Assessment**No data available

**12.6 Other Adverse Effects**No data available

#### 13. DISPOSAL CONSIDERATIONS

#### 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

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

## 15.3 SARA 313 Components

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

#### 15.4 SARA 311/312 Hazards

Acute Health Hazard

## **15.5 Right to Know Components**

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

# 15.6 California Prop. 65 Components

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

# **16. OTHER INFORMATION**

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

N/A

#### 16.2 Further Information

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



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#### 1. IDENTIFICATION OF PRODUCT AND COMPANY

#### 1.1. Identification and Product Name

**Product Name: Elution Buffer** 

## 1.2. Intended Use

Research Use Only

#### 1.3. Manufacturer

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# 1.4. Emergency Telephone

If medical emergency, call 911.

Contact your local Poison Control Center.

## 2. HAZARD IDENTIFICATION

## 2.1 Emergency Overview

## 2.2 NFPA Ratings (Scale 0-4)

Health: 1 Fire: 0 Reactivity: 0

## 2.3 WHMIS Rating (Scale 0-4)

Health: 1 Fire: 0 Reactivity: 0



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#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characteristics:

Mixture of the substances listed below with nonhazardous additions

3.2 Synonyms:

N/A

3.3 Component

Classification

Concentration

N/A

Refer to Section 16 for full te

- 4. FIRST AID MEASURES
  - 4.1 If Inhaled

If not breathing give artificial respiration

4.2 In Case of Skin Contact

N/A

4.3 If Swallowed

Call a physician immediately.

- 5. FIREFIGHTING MEASURES
  - **5.1 Conditions of Flammability**

Not Flammable or combustible

5.2 Suitable Extinguishing Media

Dry powder, CO<sub>2</sub> water spray, or alcohol-resistant foam.

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# **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 Precautionary Measures**

No special measure required.

## 6.2 Clean-up Procedure:

Pick-up mechanically.

#### 7. HANDLING AND STORAGE

## 7.1 Conditions for Safe Storage

No special measure required.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Components with workplace control parameters

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

## **8.2 Personal Protective Equipment**

### **Respiratory Protection**

No special protective equipment required

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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 the skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

### **Eye Protection**

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

## **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

рН	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



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Relative Vapor Density Odor Odor Threshold Evaporation Rate no data available no data available no data available 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 on Acute Toxicity no data available

**11.2 Skin Corrosion/Irritation** no data available

11.3 Serious Eye Damage/ Eye Irritation 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.

ACGIH No component of this product that is present at levels

greater than or equal to 0.1% is dentified as probable, pos

sible or confirmed human carcinogen by ACGIH.

NTP No component of this product that is present at levels

greater than or equal to 0.1% is identified as probable,

possible or confirmed human carcinogen by NTP.

OSHA No component of this product that is present at levels

greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

**11.7 Reproductive Toxicity** no data available

11.8 Teratogenicity no data available

**11.9 Specific Target Organ Toxicity - Single Exposure** no data available

**11.10 Specific Target Organ Toxicity - Repeated Exposures** no data available

**11.11 Aspiration Hazard** no data available

11.12 Potential Health Effects

Inhalation N/A
Ingestion N/A
Skin N/A
Eye N/A

11.13 Signs and Symptoms of Exposure

**11.14 Synergistic Effects** no data available

11.15 Additional Information RTECS: not available

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Trade Name: EB Buffer

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#### 12. ECOLOGICAL INFORMATION

**12.1 Toxicity** No data available

**12.2 Persistence and Degradability**No data available

**12.3 Bioacumulative Potential** No data available

**12.4 Mobility in Soil** No data available

**12.5 PBT and vPvB Assessment**No data available

**12.6 Other Adverse Effects**No data available

#### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Product

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### 13.2 Contaminated Packaging

Disposal must be made according to official regulations.

#### 14. TRANSPORT INFORMATION

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

#### 15. REGULATORY INFORMATION

#### 15.1 OSHA Hazards

N/A

#### 15.2 SARA 302 Components

No chemicals in this product are required to be reported according to SARA Title

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Trade Name: EB Buffer

Revision: 11/11/2015

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III, Section 302.

15.3 SARA 313 Components

15.4 SARA 311/312 Hazards

Acute Health Hazard

## 15.5 Right to Know Components

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

## 15.6 California Prop. 65 Components

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

#### **16. OTHER INFORMATION**

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

N/A

#### 16.2 Further Information

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



Trade Name: CBH Buffer

Revision: 11/11/2015

Telephone: 1(800) 776-4431

Email: sales@omni-inc.com

www.omni-inc.com

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** 

Target Organ Effect, Toxic by Ingestion, Irritant

**Target Organs** 

Bone Marrow, Nerves

**GHS** Classification

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



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Skin irritation (Category 2) Eye irritation (Category 2A)

**GHS Symbols** 



**Signal Word** 

**WARNING** 

**Hazard Statement(s)** 

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled

Acute toxicity (Category 3) GHS Symbols

Signal Word

**DANGER** 

Hazard Statement(s)

H302 Harmful if swallowed

H331 Toxic if Inhaled

H402 Harmful to Aquatic Life

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# Precautionary Statement(s)

P261 Avoid breathing dust/ fume/ 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 CENTER or doctor/ physician.

# 2.2 HMIS Classification (Scale 0-4)

Health Hazard 2 Flammability 0 Physical Hazards 0

# 2.3 NFPA Rating (Scale 0-4)

Health Hazard 2 Fire 0 Reactivity Hazard 0

### 2.4 Potential Health Effects

Inhalation Toxic if inhaled. May cause respiratory tract irritation.

Skin Harmful if absorbed through skin. May cause skin irritation.

Eyes May causes eye irritation.
Ingestion Harmful if swallowed.

Aggravated Medical Condition May cause nervous system disturbances.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Chemical Characterization

Mixture of the substances listed below with nonhazardous additions.

#### 3.2 Synonyms

Guanidinium chloride Guanidine monohydrochloride

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# Guanidinium hydrochloride

3.3 Component Classification Concentration

Guanidine Hydrochloride Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, 50-100%

CH6CIN3 H315, H319 CAS-No. 50-01-1 EC-No. 200-002-3 Index-No. 607-148-00-0

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

#### 4. FIRST AID MEASURES

#### 4.1 General Advice

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

### 4.2 If Inhaled

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

## 4.3 In Case of Skin Contact

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

# 4.4 In Case of Eye Contact

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

#### 4.5 If Swallowed

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

## 5. FIREFIGHTING MEASURES

## 5.1 Conditions of Flammability

Not flammable or combustible.

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# 5.2 Suitable Extinguishing Media

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

# **5.3 Special Protective Equipment for Firefighters**

Wear self-contained breathing apparatus, if necessary.

#### **5.4 Hazardous Combustion Products**

Carbon oxides (CO, CO2), Nitrogen oxides (NOx), Hydrogen Chloride gas

#### 5.5 Further Information

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

#### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal Precautions**

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

#### **6.2 Environmental Precautions**

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

# 6.3 Methods and Materials for Containment and Cleaning Up

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

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for Safe Handling

Handle in accordance with good chemical hygiene and safety practices. Protect

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from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

# 7.2 Conditions for Safe Storage

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

## 7.3 Incompatible Products

Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

# **8.1 Personal Protective Equipment**

# **Respiratory Protection**

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

## **Hand Protection**

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

## **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.

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# **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

No data available pН 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 No data available Odor Odor Threshold No data available No data available **Evaporation Rate** 

## 10. STABILITY AND REACTIVITY

## **10.1 Chemical Stability**

Stable under recommended storage conditions.

# 10.2 Possibility of Hazardous



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No data available

10.3 Conditions to Avoid

Heating

10.4 Materials to Avoid

Strong acids, strong oxidizing agents, Organic materials

10.5 Hazardous Decomposition Products.

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

#### 11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

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

11.2 Skin Corrosion/Irritation

No data available

11.3 Serious Eye Damage/Eye Irritation

Eyes No data available

11.4 Respiratory or Skin Sensitization

Components of the product may be absorbed into the body through the skin. Irritating to

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skin and mucous membranes.

11.5 Germ Cell Mutagenicity No data available

11.6 Carcinogenicity

IARC No component of this product that is present at levels

greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.



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**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.

No data available 11.7 Reproductive Toxicity

No data available 11.8 Teratogenicity

11.9 Specific Target Organ Toxicity - Single Exposure No data available

11.10 Specific Target Organ Toxicity - Repeated Exposure No data available

No data available 11.11 Aspiration Hazard

11.12 Potential Health Effects

Inhalation Toxic if inhaled. May cause respiratory irritation.

Harmful if swallowed. Ingestion

Harmful if absorbed through skin. May causes skin irritation. Skin

May causes eye irritation. Eyes

11.13 Signs and Symptoms of Exposure To the best of our knowledge, the chemical,

physical, and toxicological properties have not

been thoroughly investigated.

No data available 11.14 Synergistic Effects

11.15 Additional Information

#### 12. ECOLOGICAL INFORMATION

**12.1 Toxicity** No data available

12.2 Persistence and Degradability No data available

12.3 Bioacumulative Potential No data available

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**12.4 Mobility in Soil** No data available

**12.5 PBT and vPvB Assessment**No data available

**12.6 Other Adverse Effects** Harmful to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

#### 13.1 Product

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

S29 - Do not empty into drains

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

## 13.2 Contaminated Packaging

Disposal must be made according to official regulations.

#### 14. TRANSPORT INFORMATION

**14.1 DOT (US)** Not considered dangerous goods.

**14.2 IMDG** Not considered dangerous goods.

**14.3** IATA Not considered dangerous goods.

#### 15. REGULATORY INFORMATION

#### 15.1 OSHA Hazards

Target Organ Effect, Toxic by ingestion, Irritant

### 15.2 SARA 302 Components

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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

# **15.5 Right to Know Components**

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

## 15.6 California Prop. 65 Components

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

#### **16. OTHER INFORMATION**

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

Acute Tox. Acute toxicity Eye Irrit. Eye irritation

H302 Harmful if swallowed. H315 Causes skin irritation.

H319 Causes serious eye irritation.

Skin Irrit Skin irritation.

## **16.2 Further Information**

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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: DLB Buffer

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Version: 1.0

#### 1. IDENTIFICATION OF PRODUCT AND COMPANY

# 1.1. Identification and Product Name

Product Name: DLB Buffer

#### 1.2. Intended Use

Research Use Only

### 1.3. Manufacturer

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

# 1.4. Emergency Telephone

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

#### 2. HAZARD IDENTIFICATION

# 2.1 Emergency Overview

**OSHA Hazards** 

No known OSHA Hazards Not a dangerous substance according GHS

**GHS Classification** 

Not a dangerous substance according GHS

**GHS Symbols** 

Signal Word: n/a

Hazard Statement(s): n/a

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Trade Name: DLB Buffer

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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 2 Fire 0 Reactivity Hazard 0

### 2.4 Potential Health Effects

Inhalation May cause respiratory tract irritation

Skin Eyes

Ingestion May be harmful if swallowed.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Chemical Characteristics:

Mixture of the substances listed below with nonhazardous additions.

3.2 Synonyms

n/a

3.3 Component Classification Concentration

n/a

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

### 4. FIRST AID MEASURES

# 4.1 General Advice

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# 4.2 If Inhaled

If not breathing give artificial respiration

4.3 In Case of Skin Contact

N/A

4.4 In Case of Eye Contact

4.5 If Swallowed

N/A

## 5. FIREFIGHTING MEASURES

# 5.1 Conditions of Flammability

Not flammable or combustible..

# **5.2 Suitable Extinguishing Media**

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

## **5.3 Special Protective Equipment for Firefighters**

Wear self-contained breathing apparatus, if necessary.

# **5.4 Hazardous Combustion Products**

Sodium oxides

#### 5.5 Further Information

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

## **6. ACCIDENTAL RELEASE MEASURES**

# **6.1 Personal Precautions**

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#### **6.2 Environmental Precautions**

# 6.3 Methods and Materials for Containment and Cleaning Up

Use inert absorbent material to soak up spill.

#### 7. HANDLING AND STORAGE

# 7.1 Precautions for Safe Handling

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

# 7.2 Conditions for Safe Storage

No special storage conditions required

## 8. EXPOURE CONTROLS/PERSONAL PROTECTION

# 8.1 Components with workplace control parameters

Components	CAS-No.	Value	Control Parameters	Basis
1				

## **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 googles 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.

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Trade Name: DLB Buffer

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Appearance

Form Liquid Color Colorless

# 9.2 Safety Data

рН	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 Reactions**

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 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

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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 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 Bioacumulative Potential**No data available

**12.4 Mobility in Soil** No data available

**12.5 PBT and vPvB Assessment**No data available

**12.6 Other Adverse Effects**No data available

13. DISPOSAL CONSIDERATIONS

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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

N/A

### 15.2 SARA 302 Components

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

### 15.3 SARA 313 Components

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

#### 15.4 SARA 311/312 Hazards

Acute Health Hazard

## **15.5 Right to Know Components**

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



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# 15.6 California Prop. 65 Components

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

#### 16. OTHER INFORMATION

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

N/A

### 16.2 Further Information

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