

Trade Name: SD Buffer

Revision: 11/10/2016

Rev. A

1. IDENTIFICATION OF PRODUCT AND COMPANY

Identification and Product Name

Product Name: SD Buffer

Intended Use

Research Use Only

Manufacturer

Omni International 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.

2. HAZARD IDENTIFICATION

Hazard Classification:

OSHA Hazards: Corrosive, irritant Health Hazards: Skin irritation

Serious eye damage Category 1
Specific target organ toxicity Category 3

Category 2

- single exposure (respiratory system)

Acute aquatic toxicity Category 3

GHS Label Element:

Hazard Symbol:



Signal Word: Danger

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Trade Name: SD Buffer

Revision: 11/10/2016

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Rev. A

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. P362 - Take off contaminated clothing and wash before reuse.

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: May cause nervous system disturbances.

Inhalation: May cause respiratory irritation.

Skin: Causes skin irritation.

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



Trade Name: SD Buffer

Revision: 11/10/2016

Rev. A

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

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

ACGIH No ingredient of this product present at levels greater than or equal to 0.1% is

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

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is

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

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

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

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

Sodium dodecyl sulfate

 $C_{12}H_{25}NaO_4S$

CAS No. Concentration (%)

151-21-3 15-30%

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 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

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Email: sales@omni-inc.com



Trade Name: SD Buffer

Revision: 11/10/2016

Rev. A

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:

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: 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 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.

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



Trade Name: SD Buffer

Revision: 11/10/2016

Rev. A

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: Tightly fitting safety goggles. Face shield (8-inch minimum). Use

equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and Body Protection: Use gloves when handling this product. Inspect gloves

prior to use for any visible damage. Use proper glove re moval technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry

hands after use.

Respiratory Protection: Where risk assessment shows air-purifying respirators are

appropriate, use a full-face respirator with multi-purpose combination respirator cartridges. Use respirators and components tested and approved under appropriate gov

ernment standards such as NIOSH.

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Trade Name: SD Buffer

Revision: 11/10/2016

Rev. A

Hygiene Measures: Handle in accordance with good industrial hygiene and

safety practices. Wash hands before breaks and at the end

of the work day.

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 **Initial Boiling Point/Boiling Range:**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
Evaporation Rate No data available

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Trade Name: SD Buffer

Revision: 11/10/2016

Telephone: 1(800) 776-4431 Email: sales@omni-inc.com

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Rev. A

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions:
Conditions to Avoid:
Materials to Avoid:
No data available
No data available
No data available
No data available

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation: May cause respiratory tract irritation.

Skin: Causes skin irritation.

Eyes: Causes serious eye damage. **Ingestion:** May be harmful if swallowed.

Information on Toxicological Effects:

Acute Toxicity:

Oral LD50: 1,288 mg/kg (Rat)

Inhalation LC50: > 3,900 mg/m3 (Rat) - 1 hr

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.



Trade Name: SD Buffer

Revision: 11/10/2016

Rev. A

Reproductive Toxicity: No data available **Teratogenicity:** No data available **Specific Target Organ Toxicity - Single Exposure:** No data available **Specific Target Organ Toxicity - Repeated Exposures:** 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:Persistence and Degradability:
Bioaccumulative Potential:
No data available
No data available
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 and Section 8 for additional handling information and

protection of employees.

Contaminated Packaging: Disposal must be made according to official regulations

14. TRANSPORT INFORMATION

DOT (US) Not considered dangerous goods.

IMDG Not considered dangerous goods.

IATA Not considered dangerous goods.

15. REGULATORY INFORMATION

US Federal Regulations:

OSHA Hazards: Corrosive, irritant

SARA 302 Components: None present or none present in regulated quantities.

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Trade Name: SD Buffer

Revision: 11/10/2016

Telephone: 1(800) 776-4431

Email: sales@omni-inc.com

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Rev. A

SARA 313 Components: None present or none present in regulated quantities.

Acute health hazard SARA 311/312 Hazards:

US State Regulations:

California Prop. 65: No ingredient regulated by CA Prop 65 present.

Component(s) CAS-No.

Massachusetts RTK: No components are subject to MA RTK Act. Sodium dodecyl sulfate **New Jersey RTK:** 151-23-3

> Water 7732-18-5

16. OTHER INFORMATION

Issue Date: 9/10/2014 **Revision Date:** 5/23/2016

Version: 3.0

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 quide. All materials and mixtures may present unknown hazards and should be used with cau-tion. Omni International shall not be held liable for any damage resulting from handling or from contact with

the above product.



Trade Name: EB Buffer

Revision: 11/10/2016

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Rev. A

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: Elution Buffer

Intended Use: Research Use Only

Manufacturer: Omni International

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.

2. HAZARD IDENTIFICATION

Hazard Classification:

Health Hazards: No known OSHA hazards.

Not a dangerous substance according to GHS.

GHS Label Element:

Hazard Symbol: N/A

Hazard Statements: Not a hazardous substance or mixture.

Precautionary Statement(s): N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture of non-hazardous substances.

Synonyms/Common Names: N/A



Trade Name: EB Buffer

Revision: 11/10/2016

Rev. 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.

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Trade Name: EB Buffer

Revision: 11/10/2016

Rev. A

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

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

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.

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Trade Name: EB Buffer

Revision: 11/10/2016

Rev. A

Eye Protection: Use a face shield and/or safety goggles when handling this prod

uct. 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

pH: 8.0-9.0

Melting Point/Freezing Point: No data available **Initial Boiling Point/Boiling Range:** 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

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Trade Name: EB Buffer

Revision: 11/10/2016 Rev. A

Telephone: 1(800) 776-4431

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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 availableDecomposition Temperature:No data availableViscosity: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 availableIngestion:No data availableSkin:No data availableEyes:No data available

Information on Toxicological Effects:

Acute Toxicity:

Oral LD50:
Inhalation LC50:
Dermal LD50:
No data available
Serious Eye Damage/Irritation:
No data available
Respiratory or Skin Sensitization:
No data available



Trade Name: EB Buffer

Revision: 11/10/2016

Telephone: 1(800) 776-4431

Email: sales@omni-inc.com

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Rev. A

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 Exposures: 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

Toxicity:

Persistence and Degradability:

Bioaccumulative Potential:

Mobility in Soil:

PBT and vPvB Assessment:

Other Adverse Effects:

No data available

No data available.

No data available.

No data available.



Trade Name: EB Buffer

Revision: 11/10/2016

Telephone: 1(800) 776-4431

Email: sales@omni-inc.com

www.omni-inc.com

Rev. A

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 MS 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.

16. OTHER INFORMATION

Issue Date: 9/10/2015 **Revision Date:** 4/29/2016

Version: 3.0

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 present unknown hazards and should be used with cau-tion. Omni International shall not be held liable for any damage resulting from handling or from contact with the above product.



Trade Name: RTH Reagent

Revision: 11/10/2016

Rev. A

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: RTH Reagent

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

Hazard Classification:

Health Hazards: Acute toxicity (oral)

Category 4

Telephone: 1(800) 776-4431

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Skin corrosion/irritation

Category 2 Category 2A

Serious eye damage/eye irritation Specific target organ toxicity - single exposure

Category 3

GHS Label Element:

Hazard Symbol:

Signal Word: Warning



Trade Name: RTH Reagent

Revision: 11/10/2016 Rev. A

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:

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 ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by ACGIH.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by NTP.

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

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Trade Name: RTH Reagent

Revision: 11/10/2016

Rev. A

Chemical Name Cas No. Concentration (%)

Guanidine Hydrochloride 50-01-1 25-50%

CH₆CIN₃

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.

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Email: sales@omni-inc.com

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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 FireIfghters: Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: Carbon oxides (CO, CO2), nitrogen oxides (NOx),

hydrogen chloride gas

Further Information: Prevent firefighting water from entering surface

water or groundwater.



Trade Name: RTH Reagent

Revision: 11/10/2016

Rev. A

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 inhala

tion of vapors or mist.

Conditions for Safe Storage: Keep containers tightly closed in a dry, cool and

well-ventilated place. Protect from moisture.

Incompatible Products: Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls Adequate ventilation and access to eye washing

stations are required.

Recommendations for Personal

Protective Measures: Hand Prof

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

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www.omni-inc.com

approved by NIOSH.



Trade Name: RTH Reagent

Revision: 11/10/2016

Rev. A

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Liquid Color: White

Odor: No data available
Odoe Threshold: No data available

pH: 7.0-9.0

Melting Point/Freezing Point:
Initial Boiling Point/ Boiling Range:
Flash Point:
Evaporation Rate:
Flammability (Solid, Gas):
Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper):

Flammability Limit (Lower):

Explosive Limit (Upper):

No data available

No data available

No data available

No data available

Vapor Pressure:No data availableVapor Density:No data availableRelative Density:No data available

Solubility:

Solubility in Water:
Solubility (Other):
Partition Coefficient(n-octanol/water): No data available
Auto -Ignition Temperature:
Decomposition Temperature
Viscosity
No data available
No data available
No data available

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Trade Name: RTH Reagent

Revision: 11/10/2016

Rev. A

10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction 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.

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Trade Name: RTH Reagent

Revision: 11/10/2016

Rev. A

Reproductive Toxicity: No component toxic to reproduction.

No data available. **Teratogenicity:**

Specific Target Organ Toxicity -

Single Exposure:

Specific Target Organ Toxicity -

Repeated Exposures: No data available.

Aspiration Hazard: Signs and Symptoms

of Exposure: Irritating to eyes, respiratory system

and skin. Narcotic effect.

No data available.

Respiratory tract irritation.

No data available. **Syngergistic Effects: Additional Information:** None known.

12. ECOLOGICAL INFORMATION

No data available. **Toxicity:** No data available.

Persistence and Degradability:

Mobility in Soil: Product is water soluable and may spread in

water systems.

PBT and vPvB Assesement: 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 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

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Control/Personal Protection of this SDS.



Trade Name: RTH Reagent

Revision: 11/10/2016

Rev. A

14. TRANSPORT INFORMATION

DOT (US) Not regulated

IMDG Not regulated

IATA Not regulated

15. REGULATORY INFORMATION

Us Federal Regulations:

OSHA Hazards: Aggravated Medical

Conditions: May cause nervous system disturbances.

Symptoms of Overexposure:

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.

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

US State Regulations:

California Prop. 65: No ingredient regulated by CA Prop 65 present.

New Jersey &

Community RTK:

Massachusetts RTK:

Pennsylvania RTK:

No ingredient regulated by NJ Right to Know Act present.

No ingredient regulated by MA Right to Know Act present.

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: 8/19/2015 Revision Date: 4/28/2016

Version: 5.0

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 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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Trade Name: PS2 Buffer

Revision: 11/10/2016

Rev. A

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: PS2 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

Hazard Classification:

OSHA Hazards: Corrosive

Health Hazards: Skin corrosion

Serious eye damage

GHS Label Element:

Hazard Symbol:

Danger

Signal Word: Danger

Hazard Statements: H314 - Causes severe eye burns and eye damage.

H318 - Causes serious eye damage.

Precautionary Statements: P264 - Wash skin thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/

Category 1A

Category 1

face protection.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

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Trade Name: PS2 Buffer

Revision: 11/10/2016

Rev. A

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/take off all contaminated clothing.

Rinse skin with water/shower.

Precautionary Statements: P304 + P340 + P310 - IF INHALED: Remove victim to fresh air and keep

at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. 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.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents in accordance with local, state, federal

and international regulations.

Potential Health Effects:

Symptoms

Inhalation:

of Overexposure: Redness, pain, skin burns. Watering and irritation to eyes. Repeated

exposures may cause erosion of exposed front teeth, darkening of the skin and chronic inflammation of the nose, throat and bronchial tubes. Harmful if inhaled. Inhalation may cause lung and tooth damage.

Skin: Causes severe skin burns.

Eyes: Causes severe eye damage. Ingestion: May be fatal if swallowed.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or equal

to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH No ingredient of this product present at levels greater than or equal

to 0.1% is identified as probable, possible or confirmed human

carcinogen by ACGIH.

OSHA No ingredient of this product present at levels greater than or equal

to 0.1% is identified as probable, possible or confirmed human

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or equal

to 0.1% is identified as probable, possible or confirmed human

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carcinogen by NTP.



Trade Name: PS2 Buffer

Revision: 11/10/2016

Rev. A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture of the substances listed below with

non-hazardous additions.

Synonyms

Chemical Name

Acetic acid

 $C_2H_4O_2$

CAS No. 64-19-7

Concentration

5-10 %

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. If on skin or hair, take off contaminated

clothing and shoes immediately. 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. Continue rinsing eyes during

transport to hospital.

If Swallowed: Do NOT induce vomiting. Give large quantity of water. Never give

anything by mouth to an unconscious person. Seek medical attention.

Most Important Symptoms and

Effects, Acute and Delayed:

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 alcohol-resistant foam.

Special Protective Equipment

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

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Trade Name: PS2 Buffer

Revision: 11/10/2016

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Rev. A

Hazardous Combustion

Products: Carbon oxides (formed under fire conditions). **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 further details.

Environmental Precautions

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

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

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.

Conditions for Safe Storage

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

Incompatible Products



Trade Name: PS2 Buffer

Revision: 11/10/2016

Rev. A

8. EXPOSURE 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: Components with Workplace Control Parameters:

Components	CAS No.	Value	Control	Basis

Parameters

Acetic acid 64-19-7 TWA 10 ppm USA. ACGIH

Threshold Limit

Values (TLV)

Remarks: Eye and upper respiratory tract irritation pulmonary function

STEL 15 ppm USA. ACGIH

Threshold Limit

Values (TLV)

Eye and upper respiratory tract irritation, pulmonary function

TWA 10 ppm USA. OSHA -

25 mg/m³ TABLE Z-1 for Air

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Contaminants - 1910.1000



Trade Name: PS2 Buffer

Revision: 11/10/2016

Rev. A

The value in mg/m3 is approximate.

TWA 10 ppm USA. NIOSH

25 mg/m3 recommended

exposure limits

ST 10ppm USA. NIOSH

25 mg/m3 recommend

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exposure limits

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Liquid
Color Colorless
Odor: Vinegar-like.
Odor Threshold: No data available

pH: 4.0-6.0

Melting Point/Freezing Point:
Initial Boiling Point/Boiling Range:
Flash Point:
Evaporation Rate:
Flammability (Solid, Gas):
Upper/Lower Limits on Flammability and Explosive Limits:
Flammability Limit (Upper):
No data available

Explosive Limit (Upper):

Explosive Limit (Lower):

Vapor Pressure:

Vapor 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



Trade Name: PS2 Buffer

Revision: 11/10/2016

Rev. A

10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions

of normal use.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available.

Conditions to Avoid: Heating

Materials to Avoid: Oxidizing agents, metals, amines, alcohols, peroxides,

permanganates (e.g. potassium permanganates),

soluble carbonates and phosphates,

Hydroxides Hazardous

Decomposition Products: Carbon oxides (formed under fire conditions).

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation: Harmful if inhaled. Inhalation may cause lung

and tooth damage.

Ingestion: May be fatal if swallowed.

Skin: Causes severe skin burns.

Eyes: Causes severe eye damage.

Information on Toxicological Effects:

Acute Toxicity:

Oral LD50: 3,310 mg/kg (Rat)
Inhalation LC50: No data available
Dermal LD50: 1.06 L/kg (Rabbit)

Other Information:No data availableSkin Corrosion/Irritation:No data availableSerious Eye Damage/Irritation:No data availableRespiratory or Skin Sensitization:No data availableGerm 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.

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Trade Name: PS2 Buffer

Reproductive Toxicity: No data available **Teratogenicity:** No data available

Specific Target Organ Toxicity -

Single Exposure: No data available

Specific Target Organ Toxicity -

Repeated Exposures: No data available **Aspiration Hazard:** No data available

Signs and Symptoms

of Exposure: Redness, pain, skin burns. Watering and irritation to eyes.

Repeated exposures may cause erosion of exposed front teeth, darkening of the skin and chronic inflammation of

Revision: 11/10/2016

Rev. A

the nose, throat and bronchial tubes.

Synergistic Effects: No data available **Additional Information:** No data available

12. ECOLOGICAL INFORMATION

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

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/

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Personal Protection of this SDS.



Trade Name: PS2 Buffer

Revision: 11/10/2016

Rev. A

14. TRANSPORT INFORMATION

DOT (US)IMDGIATANot considered dangerous goods.Not considered dangerous goods.

US State Regulations:

California Prop. 65: No ingredient regulated by CA Prop 65 present.

Component(s) CAS-No
Massachusetts RTK: Acetic acid 64-19-7
New Jersey RTK: Acetic acid 64-19-7
Pennsylvania RTK: Acetic acid 64-19-7
Rhode Island RTK: Acetic acid 64-19-7

15. REGULATORY INFORMATION

US Federal Regulations:

OSHA Hazards: Corrosive

Aggravated Medical

Conditions: Symptoms of Overexposure:

Inhalation: Harmful if inhaled. Inhalation may cause lung and tooth damage.

Skin: Causes severe skin burns.

Eyes: Causes severe eye damage.

Ingestion: May be fatal if swallowed.

SARA 302 Components: None present or none present in regulated quantities. None present or none present in regulated quantities.

SARA 311/312 Hazards: Acute health hazard, chronic health hazard

16. OTHER INFORMATION

Issue Date: 8/28/2014 **Revision Date:** 8/10/2016

Version: 4.0

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 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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Trade Name: XLSM Buffer

Revision: 11/10/2016

Rev. A

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: XLSM 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

Hazard Classification:

Health Hazards: No known OSHA hazards.

Not a dangerous substance according to 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.

Synonyms/Common Names: N/A

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Trade Name: XLSM Buffer

Revision: 11/10/2016

Rev. 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 Combusti on Products: N/A

Further Information: Prevent firefighting water from entering surface water or

groundwater.

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Trade Name: XLSM Buffer

Revision: 11/10/2016

Rev. A

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.

Imcompatible 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

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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

Revision: 11/10/2016

Rev. A

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.

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 Initial Boiling Point/Boiling Range: 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 availableDecomposition Temperature:No data availableViscosity:No data available

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Trade Name: XLSM Buffer

Revision: 11/10/2016

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Rev. A

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

Skin Corrosion/Irritation:
Serious Eye Damage/Irritation:
Respiratory or Skin Sensitization:
No data available
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 Exposures:**No data available



Trade Name: XLSM Buffer

Revision: 11/10/2016

Rev. A

Aspiration Hazard:

No data available

Signs and Symptoms

of Exposure:

Synergistic Effects:

Additional Information:

No data available

No data available

None known.

12. ECOLOGICAL INFORMATION

Toxicity:

Persistence and Degradability:

Bioaccumulative Potential:

Mobility in Soil:

PBT and vPvB Assessment:

Other Adverse Effects:

No data available.

No data available.

No data available.

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.

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Trade Name: XLSM Buffer

Revision: 11/10/2016

Telephone: 1(800) 776-4431

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Rev. A

US State Regulations:

California Prop. 65: No ingredient regulated by CA Prop 65 present.

Massachusetts RTK: No ingredient regulated by MS 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.

16. OTHER INFORMATION

Issue Date: 9/10/2015 **Revision Date:** 4/29/2016

Version: 3.0

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 present unknown hazards and should be used with cau- tion. Omni International shall not be held liable for any damage resulting from handling or from contact with the above product.



Trade Name: WPS Buffer

Revision: 11/10/2016

Rev. A

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: WPS 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

Hazard Classification:

Health Hazards: No known OSHA hazards.

Not a dangerous substance according to 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.

Synonyms/Common Names: N/A

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Trade Name: WPS Buffer

Revision: 11/10/2016

Rev. 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.

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.

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Trade Name: WPS Buffer

Revision: 11/10/2016

Rev. A

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.

Imcompatible 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

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smoke when handling this product.

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

N/A

Components with Workplace Control Parameters:

N/A



Trade Name: WPS Buffer

Revision: 11/10/2016

Telephone: 1(800) 776-4431 Email: sales@omni-inc.com

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Rev. A

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Form: Liquid
Color: Colorless

Odor: No data available
Odor Threshold: No data available

pH: 5.0-7.0

Melting Point/Freezing Point:No data availableInitial Boiling Point/Boiling Range:No data availableFlash Point:No data availableEvaporation Rate:No data availableFlammability (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
Vapor Pressure:
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 availableDecomposition Temperature:No data availableViscosityNo 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



Trade Name: WPS Buffer

Revision: 11/10/2016

Telephone: 1(800) 776-4431

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Rev. A

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation:No data availableIngestion:No data availableSkin:No data availableEyes:No data available

Information on Toxicological Effects:

Acute Toxicity:

Oral LD50:
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 Exposures: 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.



Trade Name: WPS Buffer

Revision: 11/10/2016

Rev. A

12. ECOLOGICAL INFORMATION

Toxicity:

Persistence and Degradability:

Bioaccumulative Potential:

Mobility in Soil:

PBT and vPvB Assessment:

Other Adverse Effects:

No data available.

No data available.

No data available.

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 (US) Not regulated Not regulated Not regulated 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 MS 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.

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Trade Name: WPS Buffer

Revision: 11/10/2016

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Rev. A

16. OTHER INFORMATION

Issue Date: 9/10/2015 **Revision Date:** 4/29/2016

Version: 3.0

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 present unknown hazards and should be used with cau- tion. Omni International shall not be held liable for any damage resulting from handling or from contact with the above product.



Trade Name: PX1 Buffer

Revision: 11/10/2016

Rev. A

1. IDENTIFICATION OF PRODUCT AND COMPANY

1.1. Identification and Product Name

Product Name: PX1 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

Hazard Classification:

OSHA Hazards: Harmful by inhalation, harmful by ingestion, harmful in contact

with skin.

Health Hazards: Acute toxicity, inhalation Category 4

Acute toxicity, oral

Acute toxicity, dermal

Acute aquatic toxicity

Category 4

Category 4

Category 3

Chronic aquatic toxicity

Category 3

GHS Label Element:

Hazard Symbol:



Signal Word:

Warning

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Trade Name: PX1 Buffer

Revision: 11/10/2016

Rev. A

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.

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.

Potential Health Effects:

Aggravated Medical Conditions: May cause nervous system disturbances.

Symptoms of Overexposure:

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.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or equal to 0.1%

is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH No ingredient of this product present at levels greater than or equal to 0.1%

is identified as probable, possible or confirmed human carcinogen by ACGIH.

OSHA No ingredient of this product present at levels greater than or equal to 0.1%

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

NTP No ingredient of this product present at levels greater than or equal to 0.1%

is identified as probable, possible or confirmed human carcinogen by NTP.

SECTION 3. COMPOSITION OF/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

Telephone: 1(800) 776-4431

Email: sales@omni-inc.com



Trade Name: PX1 Buffer

Revision: 11/10/2016

Rev. A

Chemical Name CAS No. **Concentration (%)**

Guanidine thiocyanate 593-84-0 25-50%

CH₅N₃. CHNS

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. Remove contaminated clothing. 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:

May cause pain, irritation or redness, and watering of eyes.

Recommendations for Immediate Medical Attention and Special Treatment:

5. FIREFIGHTING MEASURES

Conditions of Flammability: Not flammable or combustible.

Suitable Extinguishing Media: Dry powder, CO2, water spray or alcohol-resistant foam.

Special Protective Equipment for Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: Carbon oxides (CO, CO2), sulfur oxides (SOx),

nitrogen oxides (NOx)

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

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Telephone: 1(800) 776-4431 Email: sales@omni-inc.com



Trade Name: PX1 Buffer

Revision: 11/10/2016

Rev. A

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 containers tightly closed in a dry, cool and

well-ventilated place. Protect from light and moisture.

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Do not store near acids.

Imcompatible Products: Strong oxidizing agents, strong acids

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



Trade Name: PX1 Buffer

Revision: 11/10/2016

Rev. A

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: 5.0-7.0

Melting Point/Freezing Point:
Initial Boiling Point/Boiling Range:
No data available
No data available
Evaporation Rate:
No data available
No data available
No data available
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
Vapor Pressure:
No data available
Vapor Density:
No data available
No data available
No data available
No data available

Solubility:

Solubility in Water: No data available

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Trade Name: PX1 Buffer

Revision: 11/10/2016

Rev. A

Solubility (Other): No data available

Partition Coefficient (n-octanol/ water): No data available

Auto-Ignition Temperature:No data availableDecomposition Temperature:No data availableViscosityNo data available

10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of

normal use.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available. **Conditions to Avoid:** Heating, flames, sparks

Materials to Avoid: Strong acids, strong oxidizing agents, cyanides

Hazardous Decomposition

Products: Carbon oxides (COx), sulfur oxides (SOx),

nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation: Harmful if inhaled. May cause respiratory tract irritation.

Ingestion: Harmful if swallowed.

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

Eyes: May cause eye irritation.

Information on Toxicological Effects:

Acute Toxicity:

Oral LD50: 593 mg/kg (Rat)
Inhalation LC50: No data available
Dermal LD50: 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

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Trade Name: PX1 Buffer

Revision: 11/10/2016

Rev. A

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 Exposures:**No data available

Aspiration Hazard: No data available

Signs and Symptoms of Exposure: Irritating to eyes, respiratory system and skin.

Synergistic Effects: No data available **Additional Information:** No data available

12. ECOLOGICAL INFORMATION

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

Persistence and Degradability: No data available. **Bioaccumulative Potential:** No data available.

Mobility in Soil: Product is water soluable 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.

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Trade Name: PX1 Buffer

Revision: 11/10/2016

Rev. A

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

14. TRANSPORT INFORMATION

DOT (US)IMDGIATANot considered dangerous goods.Not considered dangerous goods.

15. REGULATORY INFORMATION

US Federal Regulations:

OSHA Hazards: Harmful by inhalation, harmful by ingestion, harmful in

contact with skin.

Aggravated Medical Conditions: May cause nervous system disturbances.

Symptoms of Overexposure:

Inhalation: Harmful if inhaled. May cause respiratory irritation.

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

Eyes: May cause eye irritation. **Ingestion:** Harmful if swallowed.

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

16. OTHER INFORMATION

Issue Date: 8/29/2016 **Revision Date:** 5/10/2016

Version: 4.0

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 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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