Trade Name: DNA Wash Buffer Revision Date: 06/01/2018

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:

Product Name: DNA Wash Buffer

Manufacturer or Supplier Details:

Company Name: Bioland Scientific LLC

Address: 14925 Paramount Blvd, Suite C

Paramount, CA 90723

USA

Telephone: 1-800-832-8896 info@bioland-sci.com

Emergency Telephone: CHEMTREC

USA & Canada: 1-800-424-9300

Outside USA & Canada: 1-703-527-3887

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

SECTION 2. HAZARDS 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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Substance or Mixture: Mixture of non-hazardous substances.

Synonyms/Common Names: N/A

Trade Name: DNA Wash Buffer Revision Date: 06/01/2018

SECTION 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.

SECTION 5. FIREFIGHTING MEASURES:

Conditions of Flammability: Not flammable or combustible.

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

Special Protective Equipment for

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: N/A

Further Information: Prevent firefighting water from entering surface water or

groundwater.

Trade Name: DNA Wash Buffer Revision Date: 06/01/2018

SECTION 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.

SECTION 7. HANDLING AND STORAGE:

Precautions for Safe Handling: Handle in accordance with good chemical hygiene and safety

practices. Protect from moisture. Avoid contact with eyes, skin and

clothing. Avoid inhalation of vapors or mist.

Conditions for Safe Storage: Keep container tightly closed in a dry, well-ventilated place.

Incompatible Products: N/A

SECTION 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.

Trade Name: DNA Wash Buffer Revision Date: 06/01/2018

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

SECTION 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:

Initial Boiling Point/Boiling Range:

No data available

Range:

No data available

No data available

No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper):

Flammability Limit (Lower):

Explosive Limit (Upper):

Explosive Limit (Lower):

No data available

No data available.

Trade Name: DNA Wash Buffer Revision Date: 06/01/2018

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

SECTION 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

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

Trade Name: DNA Wash Buffer Revision Date: 06/01/2018

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:
Signs and Symptoms of Exposure:
No data available
Synergistic Effects:
No data available
No data available
No data available
None known.

SECTION 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: DNA Wash Buffer Revision Date: 0 6 / 01/2018

SECTION 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.

SECTION 14. TRANSPORT INFORMATION:

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

SECTION 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.

Trade Name: DNA Wash Buffer Revision Date: 06/01/2018

SECTION 16. OTHER INFORMATION:

 Issue Date:
 9/10/2017

 Revision Date:
 06/01/2018

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

Trade Name: Elution Buffer Revision Date: 06/01/2018

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:

Product Name: Elution Buffer

Manufacturer or Supplier Details:

Company Name: Bioland Scientific LLC

Address: 14925 Paramount Blvd, Suite C

Paramount, CA 90723

USA

Telephone: 1-562-602-8882

Email: service@bioland-sci.com

Emergency Telephone: CHEMTREC

USA & Canada: 1-800-424-9300

Outside USA & Canada: 1-703-527-3887

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

SECTION 2. HAZARDS 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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Substance or Mixture: Mixture of non-hazardous substances.

Synonyms/Common Names: N/A

Trade Name: Elution Buffer Revision Date: 06/01/2018

SECTION 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.

SECTION 5. FIREFIGHTING MEASURES:

Conditions of Flammability: Not flammable or combustible.

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

Special Protective Equipment for

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: N/A

Further Information: Prevent firefighting water from entering surface water or

groundwater.

Trade Name: Elution Buffer Revision Date: 06/01/2018

SECTION 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.

SECTION 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

SECTION 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.

Trade Name: Elution Buffer Revision Date: 06/01/2018

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

SECTION 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:

Initial Boiling Point/Boiling Range:

No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper):

Flammability Limit (Lower):

Explosive Limit (Upper):

Explosive Limit (Lower):

No data available

Trade Name: Elution Buffer Revision Date: 06/01/2018

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

SECTION 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

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

Trade Name: Elution Buffer Revision Date: 06/01/2018

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:
Signs and Symptoms of Exposure:
No data available
Synergistic Effects:
No data available
No data available
No data available
None known.

SECTION 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: Elution Buffer Revision Date: 06/01/2018

SECTION 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.

SECTION 14. TRANSPORT INFORMATION:

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

SECTION 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

Trade Name: Elution Buffer Revision Date: 06/01/2018

SECTION 16. OTHER INFORMATION:

 Issue Date:
 9/10/2015

 Revision Date:
 06/01/2018

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

Trade Name: RNase A Revision Date: 12/30/2016

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:

Product Name:

Manufacturer or Supplier Details:

Bioland Scientific LLC Company Name:

14925 Paramount Blvd, Suite C Address:

Paramount, CA 90723

USA

Telephone: 1-562-602-8882

Email: service@bioland-sci.com

Emergency Telephone: CHEMTREC

USA & Canada: 1-800-424-9300

Outside USA & Canada: 1-703-527-3887

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

SECTION 2. HAZARDS IDENTIFICATION

Hazard Classification:

Health Hazards: Respiratory sensitizer Category 1

GHS Label Element:

H334 - May cause allergy or asthma symptoms or breathing difficulties if **Hazard Statements:**

P261 - Avoid breathing dust/fumes/gas/mist/spray. **Precautionary Statements:**

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

protection.

P284 - In case of inadequate ventilation, wear respiratory protection. P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P332 + P313 -IF SKIN IRRITATION OCCURS: Get medical advice/attention.

P342 + P311 - IF EXPERIENCING RESPIRATORY SYMPTOMS: Call a POISON

CENTER or doctor/physician.

Trade Name: RNase A Revision Date: 12/30/2016

SECTION 3. COMPOSITION OF/INFORMATION ON INGREDIENTS:

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

Synonyms/Common Names: Ribonuclease A, ribonuclease I, ribonucleate 3' pyrimidinooligonucleti-

dohydrolase, pancreatic ribonuclease

Chemical Name	CAS No.	Concentration (%)
Glycerol	56-81-5	30-60%
RNase	9001-99-4	1-3%

SECTION 4. FIRST AID MEASURES:

General Advice: Exit to a safe area. Consult a physician.

If Inhaled: If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

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

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

consult a physician.

If Swallowed: Rinse mouth with water. Never give anything by mouth to an

unconscious person. Consult a physician.

Most Important Symptoms and Effects, Acute and Delayed:

N/A

Recommendations for Immediate

Medical Attention and Special

Treatment:

Treat symptomatically. Symptoms may be delayed.

SECTION 5. FIREFIGHTING MEASURES:

Not flammable or combustible. **Conditions of Flammability:**

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

Trade Name: RNase A Revision Date: 12/30/2016

Special Protective Equipment for

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides

Further Information: Prevent firefighting water from entering surface water or

groundwater.

SECTION 6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Use personal protective equipment. Avoid breathing vapors or mist.

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. See Section 8: Exposure Controls/Personal Protection for

more information.

Environmental Precautions: Do not let product enter drains.

Emergency Procedures: Evacuate personnel to safe areas and follow emergency response

protocols.

Methods and Materials for

Containment and Cleaning Up:

Use inert material to soak up spill. Keep waste in suitable, closed con-

tainers for disposal.

SECTION 7. HANDLING AND STORAGE:

Precautions for Safe Handling: Handle in accordance with good chemical hygiene and safety practic-

es. Avoid inhalation of vapor or mist.

Conditions for Safe Storage: Store at 2-8°C. Keep containers tightly closed.

Incompatible Products: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

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

Trade Name: RNase A Revision Date: 12/30/2016

Recommendations for Personal Protective Measures:

Hand Protection: Use gloves when handling this product. Inspect gloves prior to use for

any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable

laws. Wash and dry hands after use.

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

Use eyewear that has been approved by NIOSH.

Skin and Body Protection: Wear appropriate laboratory attire when handling this product, such

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

Respiratory Protection: If engineering controls do not maintain airborne concentrations

below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be used.

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly

after using this product. Do not eat, drink or smoke when handling

this product.

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

N/A

Components with Workplace Control Parameters:

Components	CAS No.	Value	Control Parameters	Basis
Glycerol	56-81-5	PEL	15 mg/m ³	USA. OSHA Table Z-1 Limits for Air Contaminants
		PEL	5 mg/m ³	USA. OSHA Table Z-1 Limits for Air Contaminants
		TWA	10 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:

Form: Liquid Color: Colorless

Odor:

Odor Threshold:

No data available

Trade Name: RNase A Revision Date: 12/30/2016

Evaporation Rate:

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

Vapor Pressure:

No data available

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

SECTION 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: None under normal processing

Conditions to Avoid: Extreme temperatures and direct sunlight

Materials to Avoid: Strong oxidizing agents

Hazardous Decomposition Products: No data available

SECTION 11. TOXICOLOGICAL INFORMATION:

Information on Toxicological Effects:

Acute Toxicity: RNase A Glycerol

Oral LD50: No data available 12,600 mg/kg (rat)
Inhalation LC50: No data available No data available

Dermal LD50: No data available > 10,000 mg/kg (rabbit)

Other Information: No data available No data available

Skin Corrosion/Irritation: No data available Mild skin irritation, 24 hrs (rabbit)
Serious Eye Damage/Irritation: No data available Mild eye irritation, 24 hrs (rabbit)

Trade Name: RNase A Revision Date: 12/30/2016

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: Prolonged or repeated exposure may cause headache, nausea,

vomiting.

Synergistic Effects: No data available

Additional Information: Kidney: Irregularities - Based on human evidence (Glycerol)

SECTION 12. ECOLOGICAL INFORMATION:

Toxicity:

Persistence and Degradability:

No data available.

PBT and vPvB Assessment:

No data available.

No data available.

No data available.

No data available.

Trade Name: RNase A Revision Date: 12/30/2016

SECTION 13. DISPOSAL CONSIDERATIONS:

Product: Disposal should be in accordance with applicable regional, national and

local laws and regulations.

S29 - Do not empty into drains.

S57 - Use appropriate container to avoid environmental contamination.

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

employees.

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

To minimize exposure, please refer to Section 8: Exposure Control/Personal

Protection of this SDS.

SECTION 14. TRANSPORT INFORMATION:

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

SECTION 15. REGULATORY INFORMATION:

US Federal Regulations:

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

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

SARA 311/312 Hazards: Acute health hazard

US State Regulations:

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

Trade Name: RNase A Revision Date: 12/30/2016

SECTION 16. OTHER INFORMATION:

9/9/2014 Issue Date: **Revision Date:** 12/30/2016

2.5 Version:

Further Information: No data available.

The above information is believed to be correct but does not claim to be Disclaimer: 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. Omega Bio-tek, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Trade Name: Buffer AI Revision Date: 06/01/2018

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:

Product Name: Buffer A1

Manufacturer or Supplier Details:

Company Name: Bioland Scientific LLC
Address: Bioland Scientific LLC

14925 Paramount Blvd., Suite C

Paramount, CA 90723

USA

Telephone: 1-562-377-2668 Fax: 1-562-733-6008 Emergency Telephone: 1-562-377-2668

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

SECTION 2. HAZARDS 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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Substance or Mixture: Mixture of non-hazardous substances.

Synonyms/Common Names: N/A

Trade Name: Buffer AI Revision Date: 06/01/2018

SECTION 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.

SECTION 5. FIREFIGHTING MEASURES:

Conditions of Flammability: Not flammable or combustible.

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

Special Protective Equipment for

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: N/A

Further Information: Prevent firefighting water from entering surface water or

groundwater.

Trade Name: Buffer AI Revision Date: 06/01/2018

SECTION 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.

SECTION 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

SECTION 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.

Trade Name: Buffer AI Revision Date: 06/01/2018

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

SECTION 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:

Initial Boiling Point/Boiling Range:

No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper):

Flammability Limit (Lower):

Explosive Limit (Upper):

Explosive Limit (Lower):

No data available

No data available.

Trade Name: Buffer AI Revision Date: 06/01/2018

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

SECTION 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

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

Trade Name: Buffer AI Revision Date: 06/01/2018

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:
Signs and Symptoms of Exposure:
No data available
Synergistic Effects:
No data available
No data available
No data available
None known.

SECTION 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: Buffer AI Revision Date: 06/01/2018

SECTION 13. DISPOSAL CONSIDERATIONS:

Disposal should be in accordance with applicable regional, national and **Product:**

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.

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

SECTION 14. TRANSPORT INFORMATION:

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

SECTION 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:

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

No ingredient regulated by MS Right to Know Act present. Massachusetts RTK: New Jersey & Community RTK: Water CAS No. 7732-18-5 Pennsylvania RTK: CAS No. 7732-18-5 Water Rhode Island RTK:

No ingredient regulated by RI Right to Know Act present.

Trade Name: Buffer AI Revision Date: 06/01/2018

SECTION 16. OTHER INFORMATION:

Disclaimer:

Bioland Scientific LLC provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. BIOLAND SCIENTIFIC LLC MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, BIOLAND SCIENTIFIC LLC WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Trade Name: Buffer A2 Revision Date: 6/9/2018

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:

Product Name: Buffer A2

Manufacturer or Supplier Details:

Company Name: Bioland Scientific LLC
Address: Bioland Scientific LLC

14925 Paramount Blvd., Suite C

Paramount, CA 90723

USA

Telephone: 1-562-377-2668 Email: 1-562-733-6008 Emergency Telephone: 1-562-377-2668

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

SECTION 2. HAZARDS IDENTIFICATION

Hazard Classification:

OSHA Hazards: Corrosive to metals Category 1
Health Hazards: Skin irritation Category 2
Eye irritation Category 2A

GHS Label Element:

Hazard Symbol:

T.

Signal Word: Warning

Hazard Statements: H290 - May be corrosive to metals

H315 - Skin irritant H319 - Eye irritant

Precautionary Statements: P234 - Keep only in original container.

P264 - Wash skin thoroughly after handling.

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

protection.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

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

Continue rinsing.

Trade Name: Buffer A2 Revision Date: 6/9/2018

P332 + P313 - If skin irritation occurs: Get medical advice/attention. P337 + P313 - If skin irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

P390 - Absorb spillage to prevent material damage.

Potential Health Effects:

Aggravated Medical Conditions: Symptoms of Overexposure:

Inhalation: May be harmful if inhaled.

Skin: Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be 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: N/A

Chemical Name	CAS No.	Concentration (%)
Sodium Hydroxide NaOH	1310-73-2	≥ 1-5%

SECTION 4. FIRST AID MEASURES

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

Trade Name: Buffer A2 Revision Date: 9/9/2018

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

medical attention.

Exit to safe area. Remove contaminated clothing. Wash thoroughly In Case of Skin Contact:

with soap and water. Seek medical attention.

Flush eyes with clean water for a minimum of 15 minutes keeping In Case of Eve Contact:

eyes open. Seek medical attention. Continue rinsing eyes during

transport to hospital.

If Swallowed: Do NOT induce vomiting. Rinse mouth with water. Never give

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

Most Important Symptoms and

Effects, Acute and Delayed:

Irritation of skin and eyes.

Recommendations for Immediate Medical Attention and Special

Treatment:

SECTION 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.

Sodium oxides **Hazardous Combustion Products:**

Further Information: Prevent firefighting water from entering surface water or

groundwater.

SECTION 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.

Prevent further leakage if area is safe. Do not let product enter drains. **Environmental Precautions:**

Avoid discharge into the environment.

Trade Name: Buffer A2 Revision Date: 6/9/2018

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.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling: Handle in accordance with good chemical hygiene and safety

practices. Avoid contact with skin and eyes. Avoid inhalation of vapors

or mist.

Conditions for Safe Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

Containers that have been opened must be carefully resealed and

kept upright to prevent leakage.

Incompatible Products:

SECTION 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: In case of insufficient ventilation, wear suitable respiratory equipment.

Use respirators that have been approved by NIOSH.

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly

after using this product.

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

N/A

Trade Name: Buffer A2 Revision Date: 6/9/2018

Components with Workplace Control Parameters:

Components	CAS No.	Value	Control Parameters	Basis
Sodium Hydroxide	1310-73-2	TWA	2 mg/m³	USA. Occupational Exposure Limits (OSHA)- Table Z-1 Limits for Air Contaminants
		С	2mg/m^3	USA. ACGIH Threshold Limit Values (TLV)
Remarks: Eye, skin, and upper respiratory tract irritation.				
		С	2 mg/m ³	USA. NIOSH Recommended Exposure Limits

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Liquid Color: Colorless

Odor: No data available
Odor Threshold: No data available

pH: 12.0-14.0

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):

Flammability Limit (Lower):

Explosive Limit (Upper):

Explosive Limit (Lower):

No data available

Relative Density: No data available

Solubility:

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

Trade Name: Buffer A2 Revision Date: 6/9/2018

SECTION 10. STABILITY AND REACTIVITY:

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions.

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

Materials to Avoid: Strong oxidizing agents, strong acids, organic materials

Hazardous Decomposition Products: Sodium oxides

SECTION 11. TOXICOLOGICAL INFORMATION:

Information on Likely Routes of Exposure:

Inhalation: May be harmful if inhaled.
Ingestion: May be harmful if swallowed.

Skin: Causes skin irritation. Eyes: Causes eye irritation.

Information on Toxicological Effects:

Acute Toxicity:

Oral LD50: No data available
Inhalation LC50: No data available
Dermal LD50: 67,500 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: Buffer A2 Revision Date: 6/9/2018

Reproductive Toxicity:No data availableTeratogenicity: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 availableAdditional Information:No data available

SECTION 12. TOXICOLOGICAL 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

SECTION 13. DISPOSAL CONSIDERATIONS:

Product: Disposal should be in accordance with applicable regional, national and

local laws and regulations.

S29 - Do not empty into drains.

S57 - Use appropriate container to avoid environmental contamination.

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

employees.

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

To minimize exposure, please refer to Section 8: Exposure Control/Personal

Protection of this SDS.

Trade Name: Buffer A2 Revision Date: 6/9/2018

SECTION 14. TRANSPORT INFORMATION:

DOT:

Proper Shipping Name: UN Number Class Packaging Group

Sodium hydroxide solution 1824 8 - Corrosive material (49CFR173.136) III - Minor danger

Poison Inhalation Hazard: No

IMDG:

Proper Shipping Name UN Number Class Packaging Group EMS-No.
Sodium hydroxide solution 1824 8 III F-A, S-B

IATA:

Proper Shipping Name UN Number Class Packaging Group

Sodium hydroxide solution 1824 8 III

SECTION 15. REGULATORY INFORMATION:

US Federal Regulations:

OSHA Hazards: Corrosive to metals

Aggravated Medical

Conditions: Symptoms of Overexposure:

Inhalation: May be harmful if inhaled.

Skin: Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be 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

US State Regulations:

California Prop. 65: No ingredient regulated by CA Prop 65 present. New Jersey & Community RTK: Component(s) CAS-No.

Sodium Hydroxide 1310-73-2 Water 7732-18-5

Trade Name: Buffer A2	Revision	Date: 6/9/2018
Massachusetts RTK:	Sodium Hydroxide	1310-73-2
Pennsylvania RTK:	Sodium Hydroxide Water	1310-73-2 7732-18-5
Rhode Island RTK:	Sodium Hydroxide Water	1310-73-2 7732-18-5

SECTION 16. OTHER INFORMATION:

Disclaimer:

Bioland Scientific LLC provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. BIOLAND SCIENTIFIC LLC MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, BIOLAND SCIENTIFIC LLC WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Trade Name: Buffer N1 Revision Date: 6/7/2018

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:

Product Name: Buffer N1

Manufacturer or Supplier Details:

Company Name: Bioland Scientific LLC
Address: Bioland Scientific LLC

14925 Paramount Blvd., Suite C

Paramount, CA 90723

USA

Telephone: 1-562-377-2668 Fax: 1-562-733-6008 Emergency Telephone: 1-562-377-2668

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

SECTION 2. HAZARDS IDENTIFICATION

Hazard Classification:

OSHA Hazards: Corrosive

Health Hazards: Skin corrosion Category 1A

Serious eye damage Category 1
Acute toxicity, oral Category 4
Specific target organ toxicity - single Category 3

exposure

GHS Label Element:

Hazard Symbol:

正是

Signal Word: Danger

Hazard Statements: H302 - Harmful if swallowed.

H314 - Causes severe eye burns and eye damage.

H318 - Causes serious eye damage. H319 - Causes serious skin irritation.

H332 - Harmful if inhaled.

Trade Name: Buffer N1 Revision Date: 6/7/2018

P261 - Avoid breathing dust/fumes/gas/mist/vapors/spray. **Precautionary Statements:**

P264 - Wash skin thoroughly after handling.

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

protection.
P311 - Call a POISON CENTER or doctor/physician.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce

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

Potential Health Effects:

Symptoms 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.

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

Skin: Causes severe skin burns. Eyes: Causes severe eye damage. Harmful if swallowed. Ingestion:

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/INFORMATION ON INGREDIENTS:

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

Synonyms/Common Names:

Chemical Name	CAS No.	Concentration (%)
Acetic acid C ₂ H ₄ O ₂	64-19-7	5-10%
Guan idine Hydrochloride CH ₆ CIN ₃	50-01-1	25-50%

Trade Name: Buffer N1 Revision Date: 6/7/2018

SECTION 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:

Irritating to eyes, respiratory system and skin. Narcotic effect.

Recommendations for Immediate

Medical Attention and Special

Treatment:

Treat symptomatically. Symptoms may be delayed.

SECTION 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), nitrogen oxides (NOx), hydrogen chloride gas

Further Information: Prevent firefighting water from entering surface water or

groundwater.

Trade Name: Buffer N1 Revision Date: 6/7/2018

SECTION 6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Wear respiratory protection if inadequate ventilation. 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.

SECTION 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.

Containers which are opened must be carefully resealed and kept

upright to prevent leakage.

Incompatible Products: Strong oxidizing agents

SECTION 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.

Trade Name: Buffer N1 Revision Date: 6/7/2018

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 Parameters	Basis
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 25 mg/m³	USA. OSHA - TABLE Z-1 for Air Contaminants - 1910.1000
	The value in mg/m3 is approximate.			
		TWA	10 ppm 25 mg/m ³	USA. NIOSH recommended exposure limits
		ST	10ppm 25 mg/m ³	USA. NIOSH recommended exposure limits

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:

Form: Liquid
Color: Colorless

Odor: Vinegar-like
Odor Threshold: No data available

Oddi Tili esiloid:

pH: 3.0-5.0

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

Trade Name: Buffer N1 Revision Date: 6/7/2018

Flash Point: No data available No data available **Evaporation Rate:** No data available Flammability (Solid, Gas): **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 No data available Explosive Limit (Lower): No data available **Vapor Pressure:** No data available Vapor Density:

Solubility:

Relative Density:

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

Partition Coefficient (n-octanol/

water):

No data available

No data available

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

SECTION 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: Contact with incompatible materials, excess heat

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

(e.g. potassium permanganates), soluble carbonates and phosphates,

hydroxides, chlorinated compounds

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides (NOx), hydrogen chloride gas

SECTION 11. TOXICOLOGICAL INFORMATION:

Information on Likely Routes of Exposure:

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

Trade Name: Buffer N1 Revision Date: 6/7/2018

Ingestion: Harmful if swallowed.

Skin: Causes severe skin burns.

Eyes: Causes severe eye damage.

Information on Toxicological Effects:

Acute Toxicity: Acetic acid GNC

Oral LD50: 3,310 mg/kg (Rat) 1,900 mg/kg (Rat)
Inhalation LC50: No data available
Dermal LD50: 1.06 L/kg (Rabbit) 2,000 mg/kg (Rabbit)
Other Information: No data available
No data available

Skin Corrosion/Irritation: Causes severe skin burns.
Serious Eye Damage/Irritation: Causes serious eye damage.

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.

Reproductive Toxicity: No data available
Teratogenicity: No data available

Specific Target Organ Toxicity -

Single Exposure:

Respiratory tract irritation

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 the nose, throat and bronchial tubes.

Synergistic Effects: No data available

Additional Information: No data available

Trade Name: Buffer N1 Revision Date: 6/7/2018

SECTION 12. ECOLOGICAL INFORMATION:

Toxicity: No data available
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: 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.

SECTION 13. DISPOSAL CONSIDERATIONS:

Product: Disposal should be in accordance with applicable regional, national and

local laws and regulations.

S29 - Do not empty into drains.

S57 - Use appropriate container to avoid environmental contamination.

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

employees.

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

To minimize exposure, please refer to Section 8: Exposure Control/Personal

Protection of this SDS.

SECTION 14. TRANSPORT INFORMATION:

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

Trade Name: Buffer N1 Revision Date: 6/7/2018

SECTION 15. REGULATORY INFORMATION:

US Federal Regulations:

OSHA Hazards: Corrosive

Aggravated Medical

Conditions:

May cause nervous system disturbances.

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: 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

SECTION 16. OTHER INFORMATION:

Disclaimer:

Bioland Scientific LLC provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. BIOLAND SCIENTIFIC LLC MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDINWITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, BIOLAND SCIENTIFIC LLC WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Trade Name: Column Buffer

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:

Product Name: Column Buffer

Manufacturer or Supplier Details:

Company Name: Bioland Scientific LLC
Address: Bioland Scientific LLC

14925 Paramount Blvd., Suite C

Paramount, CA 90723

USA

Telephone: 1-562-377-2668

Email: Service@bioland-sci.com

Emergency Telephone: 1-562-377-2668

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

SECTION 2. HAZARDS IDENTIFICATION

Hazard Classification:

OSHA Hazards: Corrosive to metals Category 1
Health Hazards: Skin irritation Category 2
Eye irritation Category 2A

GHS Label Element:

Hazard Symbol:

T.

Signal Word: Warning

Hazard Statements: H290 - May be corrosive to metals

H315 - Skin irritant H319 - Eye irritant

Precautionary Statements: P234 - Keep only in original container.

P264 - Wash skin thoroughly after handling.

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

protection.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

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

Continue rinsing.

Trade Name: Column Buffer Revision Date: 6/9/2018

P332 + P313 - If skin irritation occurs: Get medical advice/attention. P337 + P313 - If skin irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

P390 - Absorb spillage to prevent material damage.

Potential Health Effects:

Aggravated Medical Conditions: Symptoms of Overexposure:

Inhalation: May be harmful if inhaled.

Skin: Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be 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: N/A

Chemical Name	CAS No.	Concentration (%)
Sodium Hydroxide NaOH	1310-73-2	≥ 10-15%

SECTION 4. FIRST AID MEASURES

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

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

medical attention.

Exit to safe area. Remove contaminated clothing. Wash thoroughly In Case of Skin Contact:

with soap and water. Seek medical attention.

Flush eyes with clean water for a minimum of 15 minutes keeping In Case of Eve Contact:

eyes open. Seek medical attention. Continue rinsing eyes during

transport to hospital.

If Swallowed: Do NOT induce vomiting. Rinse mouth with water. Never give

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

Most Important Symptoms and

Effects, Acute and Delayed:

Irritation of skin and eyes.

Recommendations for Immediate Medical Attention and Special

Treatment:

SECTION 5. FIREFIGHTING MEASURES

Conditions of Flammability: Not flammable or combustible.

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

Special Protective Equipment for

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Sodium oxides **Hazardous Combustion Products:**

Further Information: Prevent firefighting water from entering surface water or

groundwater.

SECTION 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.

Prevent further leakage if area is safe. Do not let product enter drains. **Environmental Precautions:**

Avoid discharge into the environment.

Trade Name: Column Buffer Revision Date: 6/9/2018

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.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling: Handle in accordance with good chemical hygiene and safety

practices. Avoid contact with skin and eyes. Avoid inhalation of vapors

or mist.

Conditions for Safe Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

Containers that have been opened must be carefully resealed and

kept upright to prevent leakage.

Incompatible Products:

SECTION 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: In case of insufficient ventilation, wear suitable respiratory equipment.

Use respirators that have been approved by NIOSH.

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly

after using this product.

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

N/A

Trade Name: Column Buffer Revision Date: 6/9/2018

Components with Workplace Control Parameters:

Components	CAS No.	Value	Control Parameters	Basis
Sodium Hydroxide	1310-73-2	TWA	2 mg/m³	USA. Occupational Exposure Limits (OSHA)- Table Z-1 Limits for Air Contaminants
		С	2mg/m^3	USA. ACGIH Threshold Limit Values (TLV)
Remarks: Eye, skin, and upper respiratory tract irritation.				
		С	2mg/m^3	USA. NIOSH Recommended Exposure Limits

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Liquid Color: Colorless

Odor: No data available
Odor Threshold: No data available

pH: 12.0-14.0

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):

Flammability Limit (Lower):

Explosive Limit (Upper):

Explosive Limit (Lower):

No data available

Solubility:

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

Trade Name: Column Buffer Revision Date: 6/9/2018

SECTION 10. STABILITY AND REACTIVITY:

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions.

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

Materials to Avoid: Strong oxidizing agents, strong acids, organic materials

Hazardous Decomposition Products: Sodium oxides

SECTION 11. TOXICOLOGICAL INFORMATION:

Information on Likely Routes of Exposure:

Inhalation: May be harmful if inhaled.
Ingestion: May be harmful if swallowed.

Skin: Causes skin irritation. Eyes: Causes eye irritation.

Information on Toxicological Effects:

Acute Toxicity:

Oral LD50: No data available
Inhalation LC50: No data available
Dermal LD50: 67,500 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: Column Buffer Revision Date: 6/9/2018

Reproductive Toxicity:No data availableTeratogenicity: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

SECTION 12. TOXICOLOGICAL INFORMATION:

Toxicity:

Persistence and Degradability:

No data available

PBT and vPvB Assessment:

No data available

Other Adverse Effects:

No data available

SECTION 13. DISPOSAL CONSIDERATIONS:

Product: Disposal should be in accordance with applicable regional, national and

local laws and regulations.

S29 - Do not empty into drains.

S57 - Use appropriate container to avoid environmental contamination.

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

employees.

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

To minimize exposure, please refer to Section 8: Exposure Control/Personal

Protection of this SDS.

Trade Name: Column Buffer Revision Date: 6/9/2018

SECTION 14. TRANSPORT INFORMATION:

DOT:

Proper Shipping Name: UN Number Class Packaging Group

Sodium hydroxide solution 1824 8 - Corrosive material (49CFR173.136) III - Minor danger

Poison Inhalation Hazard: No.

IMDG:

Proper Shipping Name UN Number Class Packaging Group EMS-No.

Sodium hydroxide solution 1824 8 III F-A, S-B

IATA:

Proper Shipping Name UN Number Class Packaging Group

Sodium hydroxide solution 1824 8 III

SECTION 15. REGULATORY INFORMATION:

US Federal Regulations:

OSHA Hazards: Corrosive to metals

Aggravated Medical

Conditions: Symptoms of Overexposure:

Inhalation: May be harmful if inhaled.

Skin: Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be 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

US State Regulations:

California Prop. 65: No ingredient regulated by CA Prop 65 present. New Jersey & Community RTK: Component(s) CAS-No.

Sodium Hydroxide 1310-73-2 Water 7732-18-5

Trade Name: Column Buffer	Revision Date: 6/9/2018		
Massachusetts RTK:	Sodium Hydroxide	1310-73-2	
Pennsylvania RTK:	Sodium Hydroxide Water	1310-73-2 7732-18-5	
Rhode Island RTK:	Sodium Hydroxide Water	1310-73-2 7732-18-5	

SECTION 16. OTHER INFORMATION:

Disclaimer:

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