

Safety Data Sheet

Trade Name: P2 Buffer

Revision Date: 8/10/2017

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:

Product Name: P2 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
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

GHS Label Element:

Hazard Symbol:



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/face protection.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/take off all contaminated clothing. Rinse skin with water/shower.

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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 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.

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 carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

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

Synonyms/Common Names:

Chemical Name	CAS No.	Concentration (%)
Acetic acid $C_2H_4O_2$	64-19-7	5-10%

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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:	
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, CO ₂ , water spray or alcohol-resistant foam.
Special Protective Equipment for Firefighters:	Wear self-contained breathing apparatus, if necessary.
Hazardous Combustion Products:	Carbon oxides (formed under fire conditions).
Further Information:	Prevent firefighting water from entering surface water or groundwater.

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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:	

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.

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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/m ³	USA. OSHA - TABLE Z-1 for Air Contaminants - 1910.1000
	The value in mg/m ³ 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:	Liquid
Form:	
Color:	Colorless
Odor:	Vinegar-like.
Odor Threshold:	No data available
pH:	4.0-6.0
Melting Point/Freezing Point:	No data available
Initial Boiling Point/Boiling Range:	No data available

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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

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:	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).

SECTION 11. TOXICOLOGICAL INFORMATION:

Information on Likely Routes of Exposure:

Inhalation:	Harmful if inhaled. Inhalation may cause lung and tooth damage.
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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 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
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Teratogenicity:	No data available
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Specific Target Organ Toxicity - Single Exposure:	No data available
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Specific Target Organ Toxicity - Repeated Exposures:	No data available
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Aspiration Hazard:	No data available
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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.
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Synergistic Effects:	No data available
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Additional Information:	No data available
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SECTION 12. ECOLOGICAL INFORMATION:

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

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

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SECTION 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.
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:

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