



Safety Data Sheet

DATE OF ISSUE: August 25, 2023

ISSUED BY PASCAL

Product Name:	Banicide Plus
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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER	
Product Name:	Banicide [®] Plus
Product Use:	High level disinfecting / Liquid sterilant
Company Name:	Pascal International, Inc.
Address:	2929 Northup Way Bellevue, Washington 98004 USA
Emergency Telephone (Infotrac):	1-800-535-5053, 1-352-323-3500
Telephone:	1-425-827-4694, 1-800-426-8051
Fax:	1-425-827-6893

2. HAZARDS IDENTIFICATION			
GHS Classification & Label Elements:			
Health Hazard			
Skin Irritant	Category 1		
Eye Damage/Irritant	Category 1		
Respiratory Sensitization	Category 1		
Label Elements:			
Signal Word:	Warning	Danger	
Hazard Statements:			
H290 May be corrosive to metals			
H315 Causes skin irritation			
H318 Causes serious eye damage			
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled			
Precautionary Statement Prevention:			
P234 Keep only in original container			
P261 Avoid breathing vapors			
P264 Wash thoroughly after handling			
P273 Avoid release to the environment			
P280 Wear eye protection and face protection			
P285 In case of inadequate ventilation wear respiratory protection			
P312 Call a POISON CENTER/doctor if you feel unwell			
Precautionary Statement Response:			
P302 + P352 IF ON SKIN: Wash with plenty of water			
P332 + P313 IF ON SKIN: If skin irritation occurs: get medical advice/attention			

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P362 Take off contaminated clothing and wash before reuse.
P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 IF INHALED: If experiencing respiratory symptoms, call a POISON CENTER or doctor/physician
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
P310 IF IN EYES: Immediately call a POISON CENTER
P331 Do NOT induce vomiting
P390 Absorb spillage to prevent material damage
Precautionary Statement Storage
P406 Store in corrosive resistant container
Precautionary Statement Disposal
P501 Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS		
Chemical Entity (Components)	CAS No.	Proportion
Water and non-hazardous ingredients	Mixture	80-100%
Glutaraldehyde	111-30-8	1-5%

4. FIRST AID MEASURES	
Inhalation:	Remove to fresh air. If irritation persists, seek medical attention.
Ingestion:	If swallowed, get immediate medical advice by calling Poison Control Center or hospital emergency room. If advice is not available, take the affected individual and product container to the nearest emergency treatment center or hospital. Do not induce vomiting. Give large amounts of water. Seek medical assistance.
Skin:	Wash well with soap and water for at least 15 minutes.
Eye:	Flush well with water for at least 15 minutes. If irritation persists, seek medical attention.
First Aid Facilities:	Seek Medical assistance for further treatment, observation and support if necessary. Note to Physician: Probably mucosal damage may contraindicate the use of gastric lavage.

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Symptoms and effects (acute and delayed)	Corrosive to eyes. May cause skin and respiratory tract irritation. Ingestion of glutaraldehyde may cause nervous system effects including nausea, dizziness, headache and drowsiness. Repeated inhalation of vapors may cause asthmatic symptoms in some individuals.
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5. FIRE FIGHTING MEASURES	
Extinguishing Media:	Suitable extinguishing media for the surrounding fire should be used.
Specific Hazards:	None
Precautions in connection with fire:	Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

6. ACCIDENTAL RELEASE MEASURES	
Emergency Procedures:	Ventilate area well. Wear protective clothing, gloves and eye wear.
Clean Up Procedure:	For small spills: Wipe with sponge, mop or towel. Flush with large quantities of water. For large spills: Use glycine, ammonium carbonate, sodium bisulfite or dibasic ammonium phosphate to deactivate glutaraldehyde. Collect material with an absorbent material and place in appropriate labeled container for disposal.

7. HANDLING AND STORAGE	
Handling:	Avoid breathing vapors or mist. Prevent contact with eyes. Avoid contact with skin and clothing. Wash thoroughly with soap and water after handling. Avoid contamination of food. Use in a well-ventilated area. Use in accordance with label directions. Use original container.
Storage:	Store at room temperature. Keep containers closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Exposure Limits:	0.05 ppm Ceiling ACGIH TLV (SEN)
Respiratory Protection:	Use in well-ventilated area.
Eye Protection:	Safety glasses/goggles

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Hand Protection:	Protective gloves such as butyl rubber, nitrile rubber, polyethylene or double gloved latex are recommended to avoid skin contact.
Skin Protection:	Wear protective clothing as needed to avoid skin contact.
Hygiene Measures:	Suitable eye wash and washing facilities should be available in the work area.
Engineering controls:	Use general or local exhaust ventilation as needed to maintain airborne concentrations below the occupational exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Clear, colorless liquid. Activated solution is bluish-green.
Odor Threshold:	0.038 ppm (glutaraldehyde) Mild glutaraldehyde odor.
pH:	Inactivated: 3.2 – 4.3 Activated: 6.5 - 8.5
Vapor Pressure:	0.3 mmHg @ 20°C (glutaraldehyde)
Vapor Density:	Same as water.
Relative Density:	>1.0
Boiling Point:	100°C (212°F)
Freezing / Melting Point:	Not available
Solubility in Water:	Soluble in water
Specific Gravity:	1.006
Flash Point:	Not flammable
Flammability:	Not applicable
Upper/Lower Flammability:	Not applicable
Evaporation Rate:	Not available
Viscosity:	Not available

10. STABILITY AND REACTIVITY	
Chemical Stability:	Stable under ordinary conditions of use and storage
Reactivity:	Stable under ordinary conditions of use and storage
Conditions to Avoid:	Avoid high temperatures above 100°C. Do not allow significant evaporation.
Incompatible Materials:	Strong oxidizing agents, acids and bases. Acids or alkalines will neutralize active ingredients.
Hazardous Decomposition Products:	Thermal decomposition will produce carbon monoxide and carbon dioxide.

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Hazardous Reactions:	None known
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11. TOXICOLOGICAL INFORMATION	
Acute Toxicity Values:	Banicide Plus LD ₅₀ (orally) RAT: 3450 mg/kg LD ₅₀ (dermal) RAT: >2000 mg/kg
Potential Health Effects:	
<ul style="list-style-type: none"> Inhalation 	Vapors may cause irritation of the nose, throat and upper respiratory tract. Repeated inhalation of glutaraldehyde vapors may cause asthmatic symptoms in some individuals, including cough, wheezing and difficulty breathing.
<ul style="list-style-type: none"> Skin Contact 	May cause skin irritation. No signs of toxicity were observed in a dermal toxicity study in rabbits. Irritating in a primary irritation study with rabbits, effects reversed in 72 hours. Negative in a skin sensitization study with guinea pigs.
<ul style="list-style-type: none"> Eye Contact 	Causes severe irritation and possible eye damage. Corrosive in an eye irritation study in rabbits.
<ul style="list-style-type: none"> Ingestion 	Do not ingest. If swallowed, may irritate mouth, throat and intestinal tract. Ingestion of glutaraldehyde may cause nervous system effects including nausea, dizziness, headache and drowsiness.
Chronic Hazards:	No adverse effects expected based on the available data.
Carcinogen:	None of the components are listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH or OSHA.

12. ECOLOGICAL INFORMATION	
Ecotoxicity:	Toxic to aquatic environment
Toxicity:	No toxicity data available for product
Persistence and Degradability:	Glutaraldehyde is readily biodegradable
Bioaccumulative Potential:	Not determined
Mobility in Soil:	Glutaraldehyde is highly mobile in soil.

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13. DISPOSAL CONSIDERATIONS	
Solution Disposal:	Refer to product label for disposal information. Dispose in accordance with national, state/provincial and local regulations.
Disposal Method of Containers:	Empty containers may be disposed of in waste containers. Do not reuse empty container. Wrap container and put in trash.
Special Precautions:	Disposal should be carried out in compliance with federal, state and local regulations.

14. TRANSPORT INFORMATION	
Hazchem code:	None allocated
Australian Classification Statement (ADG):	None
UN Number/Name:	None / Not Regulated
EU ADR/RID:	None / Not Regulated
IMDG:	None / Not Regulated
IATA/ICAO:	None / Not Regulated
Proper Shipping Name:	N/A
Environmental Hazards:	None
Special Precautions during Transport:	None

15. REGULATORY INFORMATION	
US Federal Regulation:	
EPA SARA 311/312	Acute Health
EPA SARA 313	This product contains the following chemicals subject to annual release reporting requirements under SARA Title III, Section 313 (40 CFR 372): None
Protection of Stratospheric Ozone	This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.
CERCLA SETION 103	This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

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California Prop 65	This product may contain a chemical known to the State of California to cause cancer or birth defects or other reproductive harm.
International Inventories:	
US EPA TSCA Inventory	All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.
Canadian Environmental Protection Act	All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.
AICS (Australia)	This product is a medical device and not subject to chemical notification requirements.

16. OTHER INFORMATION	
Legal Disclaimer:	Information contained in this SDS is based on data believed to be correct. This information does not purport to be all inclusive and shall be used only as a guide. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. In no event will the manufacturer or the distributor be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.
SDS History	
Date of Issue:	August 25, 2023
Replaces Issue:	October 30, 2017
Changes made to previous issue:	Updated issue date to comply with mandated five-year requirement; Updated proportion percentages in section 3; Updated Australia AIC statement in section 15.