

SAFETY DATA SHEETS

This SDS packet was issued with item:

075577002

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071075761 077110216 077110323 077110331 077110349

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

075552427

Material Safety Data Sheet

DATE OF ISSUE: May 17, 2012

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 and sterilizing solution
Company Name:	Pascal International, Inc.
Address:	2929 NE Northup Bellevue, Washington 98004
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

Acute & Chronic Hazards:	Irritating to skin. Contact with eyes causes damage. Ingestion may be toxic. Inhalation may cause low or mild irritation.
Risk Phrases:	R38: Irritating to skin. R25: Toxic if swallowed. R36: Irritating to eyes. R42: May cause sensitization by inhalation. R50: Very toxic to aquatic organisms.
Safety Phrases:	S24: Avoid contact with skin S37: Wear suitable gloves S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity (Components)	CAS No.	Proportion
Glutaraldehyde	111-30-8	3.4%

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If irritation persists seek medical attention.
Ingestion:	Do not induce vomiting. Give large amounts of water. Seek medical assistance.
Skin:	Wash well with soap and water for at least 15 minutes.

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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.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Suitable extinguishing media for the surrounding fire should be used.
Specific Hazards:	None
Precautions in connection with fire:	NA

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Ventilate area well. Wear protective 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 liquid and discard.

7. HANDLING AND STORAGE

Handling:	Use original container.
Storage:	Store in cool, well ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:	Not determined
Respiratory Protection:	Use in well ventilated area.
Eye Protection:	Safety glasses/goggles
Hand Protection:	Protective gloves – suggest butyl rubber, nitrile rubber, polyethylene or double gloved latex.
Engineering controls:	Standard room ventilation

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Activated solution is bluish-green.
Odor	Mild glutaraldehyde odor.

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pH	Unactivated: 3.2 – 4.3 Activated: 7.5 - 8.5
Vapor Pressure	Same as water.
Vapor Density	Same as water.
Boiling Point	212° F
Freezing / Melting Point	Not determined
Solubility in Water	100%
Specific Gravity	1.006
Flash Point	N/A
Flammability	N/A

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under ordinary conditions of use and storage
Conditions to Avoid:	Avoid high temperatures above 200° F. Avoid removal of water artificially raising temperature.
Incompatible Materials:	Acids or alkalines will neutralize active ingredient.
Hazardous Decomposition Products:	None known
Hazardous Reactions:	None known

11. TOXICOLOGICAL INFORMATION

Hazardous Ingredient:	Glutaraldehyde
	LD ₅₀ (orally) RAT: 99.8 mg/kg
Routes of Exposure:	Refer to Section 4 of MSDS

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Very toxic to aquatic organisms
Persistence and Degradability:	No information found

13. DISPOSAL CONSIDERATIONS

Disposal Method and 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.

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14. TRANSPORT INFORMATION

Not a dangerous good.	Not regulated
Hazchem code:	None allocated

15. REGULATORY INFORMATION

Precautionary Phrases:	For professional in-office use only. Keep out of reach of children. Do not ingest.
Poison Schedule:	None allocated
AICS (Australia)	All ingredients are listed
Note:	Refer to applicable international, national and local regulations and provisions.

16. OTHER INFORMATION

Legal Disclaimer:	Information contained in this MSDS 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.
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MSDS History	Date of Issue: May 17, 2012 Replaces Issue: June 29, 2009 Changes made to previous issue: No changes
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Safety Data Sheet

DATE OF ISSUE: May 26, 2015

ISSUED BY PASCAL

Product Name: Banicide Plus

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 NE Northup
 Bellevue, Washington 98004
 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

Acute Toxicity - Oral Category 5
 Skin Irritant Category 2
 Eye Damage/Irritant Category 1
 Respiratory Sensitization Category 1

Environmental Hazard

Aquatic Hazard Category 2

Label Elements:



Signal Word:

Warning

Danger

Danger

Hazard Statements:

H303 May be harmful if swallowed
 H315 Causes skin irritation
 H318 Causes serious eye damage
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H401 Toxic to aquatic life

Prevention Statements

P261 Avoid breathing vapors
 P264 Wash thoroughly after handling
 P273 Avoid release to the environment

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Product Name:	Banicide Plus
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P280 Wear eye protection and face protection
 P284 In case of inadequate ventilation wear respiratory protection
 P312 Call a POISON CENTER/doctor if you feel unwell

Response Precautionary Statements:

P302 + P352 IF ON SKIN: Wash with plenty of water
 P332 + P313 IF ON SKIN: If skin irritation occurs: get medical advice/attention
 P362 + P364 IF ON SKIN: Take off contaminated clothing and wash it before reuse
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a POISON CENTER.
 P342 + P311 IF INHALED: If experiencing respiratory symptoms; call a POISON CENTER
 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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity (Components)	CAS No.	Proportion
Water and non-hazardous ingredients	Mixture	96.6%
Glutaraldehyde	111-30-8	3.4%

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If irritation persists seek medical attention.
Ingestion:	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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Product Name: Banicide Plus**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 area where chemicals are used or stored.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Ventilate area well. Wear protective 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

Hand Protection: Protective gloves – suggest butyl rubber, nitrile rubber, polyethylene or double gloved latex.

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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	Mild glutaraldehyde odor.
pH	Unactivated: 3.2 – 4.3 Activated: 6.5 - 8.5
Vapor Pressure	Same as water.
Vapor Density	Same as water.
Relative Density	>1.0
Boiling Point	100°C (212°F)
Freezing / Melting Point	Not determined
Solubility in Water	100%
Specific Gravity	1.006
Flash Point	Not flammable
Flammability	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under ordinary conditions of use and storage
Conditions to Avoid:	Avoid high temperatures above 200° F. Avoid removal of water artificially raising temperature.
Incompatible Materials:	Strong oxidizing agents, acids and bases. Acids or alkalines will neutralize active ingredient.
Hazardous Decomposition Products:	None known
Hazardous Reactions:	None known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity Values:	Banicide Plus LD ₅₀ (orally) RAT: 3450 mg/kg LD ₅₀ (dermal) RAT: >2000 mg/kg
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Potential Health Effects:**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.

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.

Eye Contact

Causes severe irritation and possible eye damage. Corrosive in an eye irritation study in rabbits.

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

Mobility in Soil:

Glutaraldehyde is highly mobile in soil.

13. DISPOSAL CONSIDERATIONS

Disposal Method and 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.

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14. TRANSPORT INFORMATION

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	None	Not Regulated			None
EU ADR/RID	None	Not Regulated			None
IMDG	None	Not Regulated			None
IATA/ICAO	None	Not Regulated			None

Hazchem code: None allocated

15. REGULATORY INFORMATION

US Federal Regulation:

EPA SARA 311/312
EPA SARA 313

Acute Health

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.

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
AICS (Australia)

All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.
All ingredients are listed

Precautionary Phrases:

For professional in-office use only.
Keep out of reach of children.
Do not ingest.

Safety Data Sheet

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Product Name:	Banicide Plus
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Poison Schedule:	None allocated
Note:	Refer to applicable international, national and local regulations and provisions.

16. OTHER INFORMATION

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SDS History	Date of Issue: May 26, 2015
	Replaces Issue: June 15, 2014
	Changes made to previous issue: Added GHS classification, pictograms, hazard & precautionary statements; updated Sections 14 & 15