

# MATERIAL SAFETY DATA SHEET

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SECTION I				
<b>Product Identity (Name / Number)</b>		PINE PLUS Neutral Disinfectant / 9688N		
		HMIS: Health = 2   Fire = 0   Reactivity = 1		
<b>Chemical Family</b>		Cleaner / Disinfectant		
SECTION II - Hazardous Ingredients				
Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Alkyl Dimethyl Benzyl Ammonium Chloride (C12-C16)	N/D	N/D		1.085
Ethyl Alcohol, Denatured	1000ppm	1000ppm		Less than 1%
Di(Octyl-Decyl)Dimethyl Ammonium Chloride	N/D	N/D		1.628
SECTION III - Physical & Chemical Characteristics				
<b>Boiling Point</b>	Above 212°F	<b>Specific Gravity</b>	1	
<b>Vapor Pressure (mm Hg)</b>	Not Determined	<b>Melting Point</b>	N/A	
<b>pH</b>	6.4	<b>Evaporation Rate (Ethyl Ether=1)</b>	Less than 1	
<b>Solubility in Water</b>	Complete	<b>Appearance / Odor</b>	Clear Green Liquid / Pine	
SECTION IV - Fire & Explosion Hazard Data				
<b>Flammable Limits (Explosive Limit)</b>	<b>Upper:</b>	N/A	<b>Lower:</b>	N/A
<b>Flash Point (Method Used)</b>	N/A			
<b>Extinguishing Media</b>	Material is nonflammable. Water spray, foam, carbon dioxide, or dry chemical may be used for surrounding fires.			
<b>Special Fire Fighting Procedures</b>	Product is not flammable. Wear full protective clothing.			
<b>Unusual Fire and Explosion Hazards</b>	Avoid contact with aluminum, zinc, tin and their alloys since product reacts with these metals generating hydrogen gas which is flammable and/or explosive when ignited.			
SECTION V - Reactivity Data				
<b>Stability:</b>	<b>Unstable</b>		X	<b>Stable</b>
<b>Hazardous Polymerization:</b>	X	<b>Will Not Occur</b>	<b>May Occur</b>	
<b>Conditions To Avoid</b>	Excessive heat			
<b>Incompatibility (Materials to Avoid)</b>	Strong oxidizing agents; Strong acids; also see Section IV.			
<b>Hazardous Decomposition or Byproducts</b>	Nitrous oxides and ammoniacal vapors			

**SECTION VI(a) - Health Hazard Data**

<b>Inhalation</b>	Irritating to mucous membranes. Prolonged inhalation of vapors may cause nausea, disorientation and loss of motor skills.
<b>Eye</b>	Even slight contact of the liquid with eyes will result in irritation and may be corrosive.
<b>Skin</b>	Product is irritating.
<b>Ingestion</b>	Irritating to mucous membranes.

**Reported As Potential Carcinogen or Carcinogen**

	<b>International Agency for Research on Cancer</b>	X	<b>Not Applicable</b>
	<b>National Toxicology Program</b>		<b>OSHA</b>

**SECTION VI(b) - First Aid Procedures**

<b>Inhalation</b>	Remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, perform artificial respiration. Get medical attention.
<b>Eye</b>	Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention.
<b>Skin</b>	Wash thoroughly with water for at least 15 minutes. Remove contaminated clothing. Get medical attention.
<b>Ingestion</b>	DO NOT induce vomiting. If conscious and alert, give large quantities of water. Follow by administering milk. Get medical attention.

**SECTION VI(c) - Employee Protection**

**Respiratory Protection (Utilize NIOSH approved respirators. Refer to manufacturer's protection factors and OSHA standard 1910.134 as a guideline.)** If TLV of product is exceeded, use NIOSH approved respirator, fully enclosed.

**SPECIAL PROTECTION INFORMATION:**

<b>EYE</b>	Chemical safety goggles or full face shield required.
<b>SKIN</b>	Use impervious gloves and protective clothing.
<b>VENTILATION</b>	Provide sufficient mechanical ventilation to maintain exposure below TLV's.
<b>SPECIAL PROTECTION</b>	Impervious clothing and boots may be worn to prevent skin contact. Showers and eyewash facilities should be in close proximity.

**SECTION VII - Special Precautions**

<b>Handling and Storage</b>	Store in dry, cool area away from strong acids. Do not store in metal containers.
<b>Other Precautions</b>	Spilled material may be slippery. Rinse thoroughly after handling.

**SECTION VIII – Environmental Protection**

<b>Spills / Releases</b>	Contain all spills and leaks to prevent discharge into the environment. Soak up with absorbant, shovel into waste container. Flush area with water.
<b>Waste Disposal Method</b>	Recover material or dispose of in accordance with applicable local, state and federal regulations.

**DISCLAIMER**

The information contained herein is based upon data available to us and reflects our best professional judgement. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his particular purpose and should comply with all federal, state and local regulations. Our goal is to manufacture products with zero or minimal hazards. Our products are improved daily as up-to-date information and research is received from our suppliers to use products with less or no hazards. Please feel free to contact us for current information.