

MATERIAL SAFETY DATA SHEET

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SECTION I				
Product Identity (Name / Number)		PINE PLUS (9688N) or LEMON PLUS (9689N) or MINT PLUS (9690N)		
Chemical Family		Quaternary Disinfectant Cleaner. Not regulated by DOT.		
		HMIS Ratings: Health = 3 Flammability = 1 Physical Hazard = 0 Personal Protection = X		
		NFPA Ratings: Health = 3 Flammability = 1 Instability = 0		
SECTION II - Hazardous Ingredients				
Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Di-(C8-10)-alkyl dimethyl ammonium chlorides	N/D	N/D		0.814
Dioctyl dimethyl ammonium chloride	N/D	N/D		0.407
Didecyl dimethyl ammonium chloride	N/D	N/D		0.407
Alkyl dimethyl benzyl ammonium chloride (C12-C16)	N/D	N/D		1.085
Ethyl Alcohol, Denatured	1000ppm	1000ppm		Less than 1%
SECTION III - Physical & Chemical Characteristics				
Boiling Point	200°F	Specific Gravity	1	
Vapor Pressure (mm Hg)	Not Determined	Melting Point	N/A	
pH	6.4	Evaporation Rate (Ethyl Ether=1)	Less than 1	
Solubility in Water	Complete	Appearance / Odor	Clear Liquid (Green or Yellow) / Various (Pine, Lemon or Mint)	
SECTION IV - Fire & Explosion Hazard Data				
Flammable Limits (Explosive Limit)	Upper:	N/A	Lower:	N/A
Flash Point (Method Used)	>201°F (PMCC)			
Extinguishing Media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).			
Special Fire Fighting Procedures	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
Unusual Fire and Explosion Hazards	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				
Stability:	Unstable		X	Stable
Hazardous Polymerization:	X	Will Not Occur	May Occur	
Conditions To Avoid	Excessive heat			
Incompatibility (Materials to Avoid)	Strong oxidizing agents, strong acids, anionic surfactants; also see Section IV.			
Hazardous Decomposition or Byproducts	Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.			

SECTION VI(a) - Health Hazard Data**Emergency Overview: DANGER! CORROSIVE**

Keep out of reach of children. May be corrosive to eyes. Causes skin burns. May be harmful if swallowed.

Inhalation	Inhalation of vapors or mists of the product may be irritating to the respiratory system. Prolonged inhalation of vapors may cause nausea, disorientation and loss of motor skills.
Eye	May cause irreversible eye damage. Even slight contact of the liquid with eyes will result in irritation and may be corrosive.
Skin	Causes skin burns.
Ingestion	Harmful if swallowed.

Reported As Potential Carcinogen or Carcinogen

	International Agency for Research on Cancer	X	Not Applicable
	National Toxicology Program		OSHA

SECTION VI(b) - First Aid Procedures

Inhalation	If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Eye	Promptly wash eyes with plenty of water while lifting the eye lids. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician or Poison Control Center immediately. Obtain medical attention and take along these instructions.
Skin	For skin contact, immediately take off all contaminated clothing and flush with large amounts of water. Wash clothing separately before reuse. If irritation persists get medical attention.
Ingestion	Call a physician or Poison Control Center immediately. Give one or two glasses of water if patient is alert and able to swallow. Seek immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person. <u>Notes to physician:</u> If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

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:

EYE	Chemical safety goggles or full face shield required. Eye wash fountain is recommended.
SKIN	Use impervious gloves and protective clothing. Emergency showers are recommended.
VENTILATION	Use general ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.
SPECIAL PROTECTION	Impervious clothing and boots may be worn to prevent skin contact. Showers and eyewash facilities should be in close proximity.

SECTION VII - Special Precautions

Handling and Storage	Avoid contact with skin and eyes. Wash hands thoroughly after handling. Avoid breathing vapors or mists of this product. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE: Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store in dry, cool area away from strong acids. Do not store in metal containers.
Other Precautions	Spilled material may be slippery. Rinse thoroughly after handling.

SECTION VIII – Environmental Protection

Spills / Releases

Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Wear appropriate protective equipment and clothing during clean-up.
Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Large Spills: Dike far ahead of liquid spill for later disposal.
Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Waste Disposal Method

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.