

**MATERIAL SAFETY DATA SHEET**

**SECTION I. IDENTIFICATION OF PRODUCT**

Name: PINE QUAT  
Identity: Quat Germicidal Disinfectant      MSDS Number: 258      Date: 09/23/2005      Supersedes: 11/18/2004  
TOXICITY: 2      FIRE: 0      REACTIVITY: 0      PROTECTION: B

**SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Name	CAS Number	PEL	TLV	%
Pine Oil	8002-09-3	NE	NE	<5
Quaternary Ammonium Chlorides	Mixture	NE	NE	<5

**SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>Boiling Point:</b> 212° F	<b>Specific Gravity:</b> 0.987 ± 0.005	<b>Vapor Pressure (mm Hg.):</b> ND	<b>Melting Point:</b> ND
<b>Vapor Density (Air = 1):</b> 1	<b>Evaporation (H2O = 1):</b> 1	<b>Water Solubility:</b> Complete	<b>pH @ 77°F:</b> 6.5 ± 0.5
			<b>VOCgm/L:</b> 85

**Appearance and Odor:** Clear yellow liquid, pine odor

**SECTION IV. FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point (TCC):</b> None	<b>% LEL:</b> ND	<b>% UEL:</b> ND	<b>Flammable Limits:</b> ND
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**Extinguishing Media:** Water fog, foam, carbon dioxide. Cool containers exposed to flames with water from side.

**Special Fire Fighting Procedures:** Prevent breathing vapors. Wear SCBA and protective clothing.

**Unusual Fire and Explosion:** Combustible liquid. Water may spread burning liquid. Keep away from sparks, heat and open flames.

**SECTION V. HEALTH HAZARD DATA**

**Route(s) of Entry:** INHALATION? Yes    EYES? Yes    SKIN? Yes    INGESTION? Yes

**(Acute) Health Hazards:**

**Eyes:** May cause irritation, redness, pain, blurred vision & tissue burns  
**Skin:** Corrosive. Causes skin burns. May cause deep ulceration and scarring.  
**Ingestion:** May cause gastric distress, colic, diarrhea  
**Inhalation:** Mist or vapors may severely irritate nose, throat and lungs.

**(Chronic) Health Hazards:** None Known

**Signs and Symptoms of Exposure:**

**Eyes:** May cause severe irritation, possibly permanent injury.  
**Skin:** Redness, pain, burns, skin blistering  
**Ingestion:** Nausea & vomiting, diarrhea  
**Inhalation:** Occasional mild irritation effects to nose and throat may occur.

**Medical Conditions Generally Aggravated by Exposure:** Pre-existing contact site disorders.

**Emergency First Aid Procedures**

**Have the product container or label with you when calling a poison control or doctor or going for treatment.**

**Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advise.

**Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advise.

**Ingestion:** Call poison control center or doctor immediately for treatment advise. Have person sip a glass of water, if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Inhalation:** Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advise.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

## HAZARD TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, skin or on clothing. Wear goggles or face shield, rubber gloves and protective clothing. Harmful if swallowed. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

### SECTION VI. TOXICITY DATA

**Carcinogenicity:** NTP? No IARC No OSHA REGULATED? No

### SECTION VII. REACTIVITY DATA

**Stability:** Stable

**Hazardous Polymerization Will Not Occur**

**Incompatibility (Materials to Avoid):** Acidic materials, Strong oxidizers

**Hazardous Decomposition Byproducts:** Oxides of carbon and nitrogen

### SECTION VIII. PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps to be Taken in Case Material is Released or Spilled:**

**Small Spills:** Mop up. Slippery on floor.

**Large Spills:** Dike area and absorb into neutral material or pump up

**Disposal:** Meet Federal, State & Local Requirements

**Handling and Storage:** Store in cool, dry well ventilated area. Keep container tightly closed when not in use.

**Other Precautions:** Keep out of reach of children. FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY.

**Pesticide Storage:** Store in a dry place no lower in temperature than 50°F or higher than 120°F.

**DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.**

**CONSULT PRODUCT LABEL FOR ADDITIONAL INFORMATION ON STORAGE AND DISPOSAL.**

### SECTION IX. CONTROL MEASURES

**Respiratory Protection:** NIOSH approves air purifying with vapor cartridge or canister

**Ventilation:** Sufficient to keep PEL from being exceeded

**Local Exhaust:** Not normally indicated when used as directed.

**Mechanical (General):** Not normally indicated unless mist is generated

**Protective Gloves:** Rubber, vinyl

**Eye Protection:** Chemical safety goggles

**Other Protective Clothing or Equipment:** Long pants, sleeves, apron

**Work/Hygienic Practices:** The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the intended use conditions and equipment.

### SECTION X. DOT INFORMATION

Disinfectants, Corrosive Liquids, n.o.s. (Quaternary Ammonium Compounds),8, UN1903, PGIII

NOTE: Not DOT regulated in 1 gallon or less

### SECTION XI. MISCELLANEOUS INFORMATION

**SARA 313:** No

**Notice:** All information, recommendations, and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources; however, manufacturer makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product.

NA - Not Available NE - Not Established ND - Not Determined