

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

Boiling Point: 212° F	Specific Gravity: 0.987 ± 0.005	Vapor Pressure (mm Hg.): ND	Melting Point: ND
Vapor Density (Air = 1): 1	Evaporation (H ₂ O = 1):1	Water Solubility: Complete	pH @ 77°F: 6.5 ±0.5
			VOCgm/L: 85

Appearance and Odor: Clear yellow liquid, pine odor

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (TCC):	% LEL:	% UEL:	Flammable Limits:
None	ND	ND	ND

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