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## MATERIAL SAFETY DATA SHEET

**MANUFACTURER:** K & K Chemical Co.  
**TELEPHONE NO.:** (800) 327-0646  
**ADDRESS:** 1303 Industrial Drive, Royse City, TX 75189

**PRODUCT:** PINE OIL  
**PART NUMBER(S):** K-514  
MSDS Prepared By: J. Austin Maglothlin, Ph.D.  
Revision Date: April 13, 2010

### SECTION I - GENERAL

Chemical Name & Synonym Not applicable  
Trade Name & Synonyms PINE OIL  
Chemical Family Aqueous solution  
Formula Trade secret

### SECTION II - HAZARDOUS INGREDIENTS

2-Propanol	CAS No.	67-63-0
Poly(ethylene glycol)4-nonylphenyl ether	CAS No.	127087-87-0
Pine Oil	CAS No.	8002-09-3

### SECTION III - PHYSICAL AND CHEMICAL DATA

Boiling Point (°C) Not determined  
Vapor Pressure (MM Hg @ 20°C) Not applicable  
Vapor Density (Air = 1) Not determined  
Specific Gravity (H<sub>2</sub>O = 1) 0.991  
% Volatile by Volume 7%  
Evaporation Rate (H<sub>2</sub>O = 1) Not determined  
Solubility in Water Miscible  
Appearance and Odor Light yellow, clear fluid with pine odor.  
pH 7.7

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits (%)  
- LEL Not determined  
- UEL Not determined  
Flash Point (Method Used) 40.3°C (TCC)  
Extinguishing Media Use any appropriate for surrounding fire.  
Special Fire Fighting Procedures None.  
Unusual Fire & Explosion Hazards None.

### SECTION V - HEALTH HAZARD DATA

Route of Entry Skin absorption, eye contact, ingestion  
Carcinogenic Assessment Not listed  
Threshold Limit Value Not evaluated  
Effects of Overexposure Possible eye irritant. Possible skin irritant. May be harmful if swallowed.  
Emergency & First Aid Procedures  
Eye contact: Flush with water for 15 minutes. Get immediate medical attention.  
Skin contact: Wash with soap and water. If irritation persists, get medical attention.  
Ingestion: DO NOT INDUCE VOMITING. Drink large amounts of water. Contact physician immediately.

### SECTION VI - REACTIVITY DATA

Stability Stable  
Incompatibility (Materials to Avoid) Acids; any materials not compatible with water  
Hazardous Decomposition Products None known  
Hazardous Polymerization Will not occur

### SECTION VII - SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released Or Spilled Contain spill. Soak up in inert absorbent material. Place in properly labeled leak-proof containers for disposal.  
Waste Disposal Method Dispose of in accordance with all local, state and federal regulations. Rinse container well before discarding in an authorized landfill.

### SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection Not normally needed.  
Ventilation Normal ventilation is adequate.  
Protective Gloves Latex  
Eye Protection Safety glasses  
Other Protective Equipment Not normally needed.

### SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing Store in original containers for up to 1 year. Keep closed when not in use.  
Other Precautions Keep out of reach of children. Read and follow label directions.  
DOT Classification Not Regulated