

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **DISINFECTANT**

Product Use: PINE OIL CLEANER & DISINFECTANT

WHMIS Class: Not regulated

TDG Classification: Exempted as an aqueous solution of alcohol

UN Number: Exempted

T.D.G. Shipping Name: Exempted

Manufactured by:

Chemotec PM Inc.

8820 Place Ray Lawson

Anjou, Quebec, Canada H1J 1Z2

Telephone: (514) 729-6321; 1-800-729-6321

Emergency Phone: as above or call **CANUTEC** (613) 996-6666 in case of **chemical emergency only.**

SECTION 2: HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt %</u>	<u>TLV</u>	<u>LC₅₀</u>	<u>LD₅₀</u>
Sodium dodecylbenzene sulfonate	25155-30-0	1 - 5	n/a	n/a	1300 mg/kg (orale, rat)
Pine oil	112-80-1	1-5	n/a	n/a	n/a
Isopropyl alcohol	67-63-0	7-13	400 ppm	n/a	n/a

SECTION 3: PHYSICAL DATA

Boiling Point (C): 82-100

Vapor Pressure (mm Hg): 20 (water)

Vapor Density (Air = 1): 0.6 (water)

Solubility in Water: Complete

Physical State: Liquid

Appearance and Odor: Amber liquid with pine oil odour.

Specific Gravity (H₂O = 1): 0.99 at 20 °C
% Volatile (Wt %): Approximately 80-85

Evaporation Rate (nBuAc = 1): n/a

pH (as supplied): 12.5 – 13.5

Viscosity: Approximately <200 cps at 25 °C

Odor Threshold (ppm): n/a

SECTION 4: FIRE AND EXPLOSION DATA

Flammability: combustible.

Flash Point (TCC, °C): 38 LEL: Not available UEL: Not available

Hazardous Combustion Products: Carbon oxides, smoke and other volatile compounds

Auto ignition Temperature (°C): Not available.

Means of Extinction: CO₂, dry chemical, foam, water

Special Fire Hazards: Contact with metals such as aluminum, tin and zinc generates hydrogen which is flammable and/or explosive when ignited. Avoid contact with open flames, sparks and other ignition sources. A stream of water directed into the product generates a lot of foam.

SECTION 5: REACTIVITY DATA

Conditions for Chemical Instability: This product is stable under normal conditions. It does not polymerize.

Incompatible Materials: Chlorinated hydrocarbon, strong acids, strong oxidizers, peroxides, aluminum, tin, lead, zinc, copper, bronze and brass.

Reactivity and Under What Conditions: No applicable information found

Hazardous Decomposition Products: Carbon oxides and other toxic and volatile compounds.

SECTION 6: TOXICOLOGICAL PROPERTIES

Route of Entry: Eyes, skin, ingestion, inhalation.

EFFECTS OF ACUTE EXPOSURE:

Eye: Irritant. Extremely corrosive product. Corneal scarring and clouding. Glaucoma, cataracts and permanent blindness may occur.

Skin: Corrosive. Severe irritation and burns on skin. Necrosis of skin tissues.

Ingestion: Violent pain in throat, mouth, gut, esophagus and/or stomach perforation, collapse, death.

Inhalation: Breathing high concentration may cause headache, nausea, burns.

EFFECTS OF CHRONIC EXPOSURE:

Irritancy: Prolonged or repeated contacts with skin may cause some irritation: skin dryness, redness, dermatitis.

Skin Sensitization: Not sensitizing.

Carcinogenicity: No ingredients are known to be carcinogenic.

Teratogenicity, Reproductive Effects: No ingredient is known to be teratogenic

Mutagenicity: No ingredient is known to be mutagenic

Synergistic Materials: None known.

SECTION 7: PREVENTATIVE MEASURES

Gloves: Plastic or rubber gloves.

Eye Protection: Safety glasses with side shields to manipulate large quantities.

Respiratory Protection: Not required, if adequate ventilation is available. Use a NIOSH/MSHA approved respirator in case of a large spill or lack of ventilation.

Other Protective Equipment: Waterproof boots and apron if contact may happen.

Engineering Controls: Shower and eye wash station if large quantities are manipulated. Provide adequate ventilation.

Leak and Spill Procedure: Avoid ignition sources. Wear personal protective equipment. Stop the leak. Pump the product into drums for disposal or clean up spills using absorbent material and place in waste container for destruction. Resume cleaning by rinsing with water.

Waste Disposal: Dispose according to existing federal, provincial and municipal regulations.

Storage Requirements: Keep in original tightly closed containers, in a well ventilated room. Keep away from open flames and other ignition sources. Avoid freezing.

SECTION 8: FIRST AID

Eye: Immediately rinse with plenty of water for 15 minutes at least, keeping eyelids open. Seek immediate medical attention.

Skin: Rinse with water. Remove soiled clothes and wash before wearing.. Seek medical attention should an irritation develop.

Inhalation: Bring the person to fresh air. If breathing has stopped, give artificial respiration. Seek medical attention if discomfort persists.

Ingestion: Give plenty of water or milk. Do not induce vomiting. Seek immediate medical attention.

SECTION 9: PREPARATION INFORMATION

Date: 2009-03-02

Phone: (514) 729-6321

Prepared by:

Chemotec (PM) Inc.

Abbreviation:

n/a: not available

Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages that may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Center for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8276) or CSST in Montreal (514-873-3990).