OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

OIL OF WINTERGREEN
(Extra Pure)
MSDS CAS: -

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: OIL OF WINTERGREEN
CAS#: -
C.I. No.: Not available.
Synonym: Oil of Wintergreen; Gaultheria oil; Teaberry oil; Methyl Salicylate
Chemical Name: Salicylic Acid, Methyl Ester
Chemical Formula: C_8-H_8-O_3

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Wintergreen Oil	-	100

Toxicological Data on Ingredients: Wintergreen Oil: ORAL (LD50): Acute: 887 mg/kg [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects: **Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.**

Potential Chronic Health Effects: **Slightly hazardous in case of skin contact (sensitizer). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver, heart, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.**

Section 4: First Aid Measures

Eye Contact: **Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.**

Skin Contact: **In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.**

Serious Skin Contact: **Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.**

Inhalation: **If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.**

Serious Inhalation: **Not available.**

Ingestion: **Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.**

Serious Ingestion: **Not available.**

Section 5: Fire and Explosion Data

Flammability of the Product: **May be combustible at high temperature.**

Auto-Ignition Temperature: **850°C (1562°F)**

Flash Points: **CLOSED CUP: 96.111°C (205°F).**

Flammable Limits: **Not available.**

Products of Combustion: **These products are carbon oxides (CO, CO2).**

Fire Hazards in Presence of Various Substances: **Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.**

Section 5: Fire and Explosion Data (Continued)

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Section 8: Exposure Controls/Personal Protection (Continued)

Personal Protection: Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance	: Liquid. (Oily liquid.)
Odour	: Characteristic of Wintergreen
Taste	: Characteristic of Wintergreen
Molecular Weight	: 152.15 g/mole
Colour	: Clear Colorless to light yellow.
pH (1% soln/water)	: Not available.
Boiling Point	: 223°C (433.4°F)
Melting Point	: -8.6°C (16.5°F)
Critical Temperature	: Not available.
Specific Gravity	: 1.18 - 1.184 (Water = 1)
Vapour Pressure	: 0 kPa (@ 20°C)
Vapour Density	: 5.2 (Air = 1)
Volatility	: Not available.
Odour Threshold	: Not available.
Water/Oil Dist. Coeff.	: The product is more soluble in oil; log(oil/water) = 2.5
Iconicity (in Water)	: Not available.
Dispersion Properties	: See solubility in water, diethyl ether.
Solubility	: Soluble in diethyl ether. Very slightly soluble in cold water. Miscible in alcohol, glacial acetic acid. Soluble in chloroform. Soluble in most common organic solvents. Solubility in water: 0.74%.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Section 10: Stability and Reactivity Data (Continued)

Instability Temperature: Not available.
Conditions of Instability: Excess heat, incompatible materials
Incompatibility with various substances: Reactive with oxidizing agents, acids, alkalis.
Corrosivity: Not available.
Special Remarks on Reactivity: Sensitive to light. Decomposed by alkalies to form methyl alcohol and salicylate
Special Remarks on Corrosivity: Not available.
Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact.
Toxicity to Animals: Acute oral toxicity (LD50): 887 mg/kg [Rat].
Chronic Effects on Humans: MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver, heart, central nervous system (CNS).
Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals: LDL (Lowest Published Lethal Dose): LDL [Human] - Route: Oral; Dose: 506 mg/kg LDL [Man] - Route: Oral; Dose: 101 – 1329 mg/kg LDL [Woman] - Route: Oral; Dose: 355 mg/kg LDL [Infant] - Route: Oral; Dose: 1480 mg/kg LDL [Child] - Route: Oral; Dose: 228 - 700 mg/kg
Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects and birth defects (teratogenic). Human: passes the placental barrier.
Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: Causes skin irritation. Eyes: Causes eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea, gastric ulceration, heartburn, dyspepsia, hyperpyrexia, sweating, thirst. May affect behavior/Central Nervous system (headache, excitation, dizziness, lassitude, drowsiness, mental confusion, convulsions, coma), respiration (hyperventilation, hyperpnea, dyspnea, pulmonary edema), ears (ringing in the ears), eyes (dimness of vision), blood (hemorrhage) Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may cause dermatitis. Ingestion: Prolonged or repeated ingestion may affect the urinary system (renal failure), heart, metabolism, and liver. Inhalation: Prolonged or repeated inhalation may affect the blood (changes in red and white cell blood count)

Section 12: Ecological Information

Eco toxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

Section 15: Other Regulatory Information

Federal and State Regulations: Rhode Island RTK hazardous substances: Wintergreen Oil Pennsylvania RTK: Wintergreen Oil TSCA 8(b) inventory: Wintergreen Oil
Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Section 15: Other Regulatory Information (Continued)

Other Classifications:
WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
DSCL (EEC): R22- Harmful if swallowed. R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S46- If swallowed, seek medical advice immediately and show this container or label.
Health Hazard: 2
Fire Hazard: 1
Reactivity: 0
Personal Protection: h
National Fire Protection Association (U.S.A.):
Health: 1
Flammability: 1
Reactivity: 0
Specific hazard:
Protective Equipment: Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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