



Sure-Gro Inc.
P.O. Box 21001, Brantford, ON, N3R 7W9
TEL (519) 754-2900 FAX (519) 754-2901



MATERIAL SAFETY DATA SHEET

PRODUCT: Malathion (Attach & Spray)

SECTION 1 - PRODUCT INFORMATION

P.C.P. Act Registration No.: 21850

Code: 7 38282 0
7 38284 0
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Chemical Name: Malathion: O,O-dimethyl-S-(1,2(diethoxycarbonyl)-ethyl) phosphorodithioate

Synonyms: Fyfanon

Chemical Family: Organophosphate

Product Use: Domestic Insecticide

TDG Classification: Regulated by Road/Rail/Marine Transport: Limited Quantity

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	WEIGHT %	CAS REG #	LD50 (mg/Kg)	T.W.A. - T.L.V.
Malathion	15	121-75-5	Oral,rat 1375 Dermal,rat >2000	LC50 1.6 mg/L
Petroleum Distillates	75 - 85	64742-94-5	Oral >10 mL/Kg	>3800 mg/m3/4h
Calculated LD50 for mixture			9160	

SECTION 3 - PHYSICAL DATA

Physical State: Liquid

Specific Gravity: 0.923

Boiling Point: 177-210 °C

Vapour Pressure: No Data

% Volatiles: 85 %

Solubility in Water: Emulsifies

Appearance\Odour: Brown liquid with solvent odour

pH: No Data

Freezing/Melting Point: No Data

Vapour Density: Greater than air

Evaporation Rate: No Data

SECTION 4 - FIRE AND EXPLOSION

Flash Point: 44 °C T.C.C.

Lower Explosion Limit %: 1 %

Fire Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical, Water Fog

Fire Fighting Procedures: Wear self-contained Breathing Apparatus and impervious clothing. Minimize the amount of water used and contain the run-off.

Other Fire or Explosion Hazards: Vapours may travel to ignition source and flash back.

Autoignition Temperature: 510 °C

Upper Explosion Limit %: 7 %

SECTION 5 - REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: No.

Conditions to Avoid: Elevated temperatures, will decompose at 100 °C and above.

Incompatibility (Materials to Avoid): Strong alkalies and oxidizers.

Hazardous Decomposition Products: Thermal decomposition may product dimethylsulfide, sulphur dioxide, carbon oxides, phosphoropentoxide and nitrogen oxides.

Malathion (A&S)

SECTION 6 - HEALTH HAZARD DATA

Acute Effects of Overexposure: May cause temporary irritation to eyes, nose, throat, and respiratory tract. May cause headache, nausea, vomiting, abdominal cramps, weakness, blurred vision, pin-point pupils, tightness in chest, muscle spasms and coma.

Effects of Chronic Exposure: Prolonged exposure may cause dermatitis.

Other Health Effects: Malathion is a cholinesterase inhibitor. **NOTE TO PHYSICIAN:** The antidote is atropine. Large doses at 2 to 4 mg intravenously or intramuscularly as soon cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear.

SECTION 7 - FIRST AID PROCEDURES

Inhalation: Move victim to fresh air and restore breathing if required. Obtain medical advice if symptoms persist.

Skin Contact: Flush skin with running water and thoroughly wash with soap and water. If irritation persists seek medical attention.

Ingestion: Give 1 to 2 glasses (200 TO 500 ml) of water to dilute material. Do Not Induce Vomiting. OBTAIN MEDICAL ADVICE.

Eye Contact: Flush eyes with running water for 20 minutes. Hold eyelids open during flushing. If irritation persists seek Medical Attention.

SECTION 8 - PREVENTIVE MEASURES

Respiratory Protection: NIOSH/MSHA approved respirator, if required.

Eye Protection: Chemical goggles.

Skin Protection: Chemical resistant gloves

Other Personal Protective Equipment: Coveralls.

Engineering Controls: Local exhaust or ventilation.

Handling Procedures and Equipment: Avoid breathing vapours, contact with eyes, skin and clothing. Wash thoroughly after use.

Storage Requirements: Store in cool, dry, ventilated area. Keep out of reach of children and pets.

Storage Temperature: Min: 0 °C Max: 40 °C

SECTION 9 - ENVIRONMENTAL PROTECTION DATA

Spill and Leak Procedures: Eliminate all ignition sources. Stop leak, contain spill by diking and absorb with suitable absorbent and transfer into waste container for disposal. Clean area with detergent and water; absorb wash and place in waste container. Remove any contaminated soil for proper disposal.

Waste Disposal: Dispose of empty container in household garbage. Dispose of waste product in accordance with Local, Provincial or Federal government regulations.

Environmental Effects: Do not contaminate local water supplies or environments.

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Prepared by: Technical Department

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