

MATERIAL SAFETY DATA SHEET**PRODUCT:** 50% Malathion Liquid Insecticide-Miticide**SECTION 1 - PRODUCT INFORMATION****P.C.P. Act Registration No.:** 9802**Product Code:** 7 30280 0
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HAZARDOUS INGREDIENTS	WEIGHT %	CAS REG #	LD50 (mg/Kg)	T.W.A. - T.L.V.
Malathion	50	121-75-5	Oral,rat 1375 Dermal,rat >2000	LD50 1.6 mg/L
Petroleum Distillates	40 - 50	64742-94-5	Oral >10 mL/Kg	>3800 mg/m3/4h
Calculated LD50 for the Mixture			2750	

SECTION 3 - PHYSICAL DATA**Physical State:** Liquid**Specific Gravity:** 1.054**Boiling Point:** 177-210 °C**Vapour Pressure:** No Data**% Volatiles:** 50 %**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:** 65 °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**Conditions to Avoid:** Elevated temperatures will decompose at 100 °C and above.**Incompatibility (Materials to Avoid):** Strong alkalis and oxidizers.**Hazardous Decomposition Products:** Thermal decomposition may produce dimethylsulfide, sulphur dioxide, carbon oxides, phosphoropentoxide and nitrogen oxides.**Hazardous Polymerization:** No

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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: Safety 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: 5 °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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