

MATERIAL SAFETY DATA SHEET

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GENERAL INFORMATION NUMBER: (414) 354-6417
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I - Product Identification

Malathion 57%

PRODUCT CODE: 0680

CHEMICAL FORMULATION: Organophosphate insecticide.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CFR:			CAS #
				302	355	372	
O,O-Dimethyl-S-(1,2-di(ethoxycarbonyl)-ethyl) Phosphorodithioate (Malathion)	55.0-60.0	10 ppm	10 ppm	Y	N	Y	121-75-5
Light aromatic naphtha	20.0-30.0	N/E	N/E	N	N	N	64742-95-6
1,2,4-Trimethylbenzene	10.0-15.0	25 ppm	N/E	N	N	Y	95-63-6
Xylene	< 2.00	100 ppm	N/E	Y	N	Y	1330-20-7

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): N/D SPECIFIC GRAVITY (WATER = 1): 1.073
VAPOR PRESSURE (mm Hg): N/D VOC CONTENT (% by weight): N/D
VAPOR DENSITY (AIR = 1): N/D EVAPORATION RATE (WATER = 1): > 1.0
SOLUBILITY IN WATER: Emulsifiable pH: N/A
APPEARANCE AND ODOR: Clear, light yellow to golden liquid; strong malathion odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): 123 (TEST METHOD): Closed cup
FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: N/A LOWER: N/A
EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters must be equipped with full protective gear including self-contained breathing apparatus. Fire may produce hazardous vapors. Minimize amount of water used to fight fire as run-off may cause pollution. Contain run-off for proper disposal.
UNUSUAL FIRE AND EXPLOSION HAZARD: Cool drums in vicinity of fire with water mist to prevent explosion. Solvent vapors may flash back.

V - Reactivity Data

STABILITY: Stable**INCOMPATIBILITY:** Avoid contamination with water, acids or alkalines.**CONDITIONS TO AVOID:** High temperatures.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon and sulfur.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None

VI - Health Hazard Data

ROUTES OF ENTRY **INHALATION:** X **EYE CONTACT:** X **SKIN CONTACT:** X **INGESTION:** X**INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None.**EFFECTS OF OVEREXPOSURE****IF IN EYES:** Irritation, blurred vision, watering.**IF ON SKIN:** Irritation and dermatitis.**IF SWALLOWED:** Vomiting, cramps, weakness, muscle spasms, coma.**IF INHALED:** Headaches, nausea, tightness of chest, labored breathing.**NOTE TO PHYSICIAN:** Malathion is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.**IF ON SKIN:** Remove contaminated clothing and launder separately before re-use. Wash with soap and water. If irritation persists, obtain medical attention.**IF SWALLOWED:** Contact physician or poison control center immediately. Do not induce vomiting unless told to do so by a physician or poison control center. Never give anything to an unconscious person.**IF INHALED:** Remove person to fresh air. Administer artificial respiration if breathing has stopped. Give oxygen if breathing is difficult. Call a physician immediately.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area and extinguish all sources of ignition. Contain spill. Soak up on inert absorbent material and place in properly labeled closed container for disposal.**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.**VENTILATION****LOCAL:** Recommended**MECHANICAL:** Recommended**PROTECTIVE GLOVES:** Chemical resistant.**EYE PROTECTION:** Safety glasses and/or face shield.**OTHER PROTECTIVE EQUIPMENT:** Emergency shower and eye wash station. Protective clothing.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place. Do not contaminate water, food feed, or seed by storage or disposal. Wash thoroughly after usage. Keep container tightly closed when not in use. Do not contaminate any body of water by cleaning of equipment.**OTHER PRECAUTIONS:** Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT PROPER SHIPPING NAME: Flammable liquid, n.o.s. (Petroleum Naptha) RQ (Malathion)**DOT CLASS:** 3**DOT ID NUMBER:** UN1993**DOT PACKING GROUP:** III

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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