

MATERIAL SAFETY DATA SHEET

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SECTION I – GENERAL INFORMATION

TRADE NAME **MALATHION 5EC**
CHEMICAL NAME O, O-Dimethyl Phosphorodithioate of Diethyl Mercaptosuccinate
CHEMICAL FAMILY Organophosphate (Insecticide)
EPA REG. NO. 19713-217
SIGNAL WORD WARNING

SECTION II – INGREDIENTS (Class = H (Hazardous), NH (Non-Hazardous))

<u>NAME</u>	<u>CAS NO.</u>	<u>% (by wt.)</u>	<u>TLV</u>	<u>CLASS</u>
Malathion	121-75-5	57.00	10 mg/m3	H
Inerts	N/A	43.00	N/A	NH

SECTION III – PHYSICAL DATA

<u>Boiling Point</u>	>300°F	<u>Specific Gravity</u>	1.06 gms/cc
<u>Vapor Pressure</u>	24.8 mmHg	<u>% Volatiles</u>	N/A
<u>Vapor Density</u>	0.032	<u>Solubility in Water</u>	Emulsifies
<u>pH</u>	5% Aqueous emulsion 3.9 @ 25°C	<u>Appearance/Odor</u>	Clear golden liquid, Mercaptan odor

SECTION IV – FIRE & EXPLOSION DATA

Flash Point 155°F (Combustible)
Extinguishing Media Combustible liquid. Dry chemical, CO₂, Foam, Water spray or fog. Avoid use of heavy water stream.
Fire Fighting Procedures Wear self-contained breathing apparatus. Fight fire from upwind. Prevent runoff if possible.

SECTION V – REACTIVITY DATA

Stability	Stable
Conditions to Avoid	Extreme temperatures
Incompatibility	Strong alkalis and oxidizers
Hazardous Decomposition Products	Thermal decomposition may produce hydrogen sulfide, carbon dioxide, sulfur dioxide.
Hazardous Polymerization	Will not occur.

SECTION VI – HEALTH HAZARD DATA

Carcinogenicity N/A
Toxicity Data Oral LD50 (Rat) = 5,500 mg/kg (Tech)
Dermal LD50 (Rabbit) = >2,000 mg/kg (Tech)
TLV 10 mg/m3
N.F.P.A. Health: 3, Fire: 2, Reactivity: 0
(Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)
Effects of Overexposure Headache, light headedness, nausea, vomiting, muscle spasms. Cholinesterase inhibition

SECTION VII – EMERGENCY PROCEDURES

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, the continue rinsing eye.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Note to Physician: This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine. Malathion is an organophosphate insecticide/miticide.

SECTION VIII- SPILL OR LEAK PROCEDURES

Steps to be taken in case of material leak or spill
Assure protective clothing is worn. Absorb spill material with clay or soda ash. Sweep up and place in a closed container. Treat contaminated area with a full-strength chlorine liquid household bleach.

Waste Disposal Method
Dispose of in accordance with Local, State, and Federal Regulations.

SECTION IX – SPECIAL PROTECTION INFORMATION

Respiratory Protection	NIOSH approved pesticide respirator
Ventilation	General recommended
Protective Gloves	Chemical-resistant
Eye Protection	Chemical goggles or safety glasses
Other	Long-sleeved shirt and long pants, shoes plus socks

SECTION X – SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling & Storage
KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.
Store in original containers away from extreme temperatures. Keep away from foodstuff. Avoid contact with skin and eyes.
D.O.T. Description Environmentally Hazardous Substances, Liquid, N.O.S., (Malathion), 9, UN-3082, PG-III, Marine Pollutant
NOTE: **4x1, 2x2.5, not DOT Regulated**
Freight Description Agricultural Insecticide, Liquid, N.O.S.
Reportable Quantity 100 Lbs.
E.R.G. Guide Sheet 171

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