

# MATERIAL SAFETY DATA SHEET

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## SECTION I – GENERAL INFORMATION

TRADE NAME	<b>MALATHION 5EC</b>
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))

NAME	CAS NO.	% (by wt.)	TLV	CLASS
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, CO <sub>2</sub> , 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

**Skin Contact:** Wash skin with soap and water, change clothing. Obtain medical attention if needed.

**Eye Contact:** Flush with water for at least 15 minutes, obtain medical attention if irritation persists.

**Inhalation:** Obtain medical attention. Remove victim to fresh air. Treat symptomatically and supportively. See a physician if needed.

**Ingestion:** Induce vomiting. Treat symptomatically and supportively. Cholinesterase Inhibitor. Get medical attention immediately. See a physician.

## 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	Rubber impervious
Eye Protection	Chemical goggles or safety glasses
Other	Coveralls, long-sleeved shirt, rubber boots

## 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
Freight Description	Agricultural Insecticide, Liquid, N.O.S.
Reportable Quantity	100 Lbs.

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