

**MATERIAL SAFETY DATA SHEET**

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**SECTION I - GENERAL INFORMATION**

TRADE NAME..... **MALATHION ULV**  
CHEMICAL NAME..... Malathion  
FORMULA..... 0,0-dimethyl phosphorodithioate of diethyl mercaptosuccinate  
CHEMICAL FAMILY..... Organophosphate (Insecticide)  
EPA REG. NO..... 19713-288

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

<b><u>NAME</u></b>	<b><u>CAS NO.</u></b>	<b><u>% (by wt.)</u></b>	<b><u>TLV</u></b>	<b><u>CLASS</u></b>
Malathion	121755	95.0	15 mg/m <sup>3</sup>	H
Inert Ingredients	N/A	5.0	N/A	NH

**SECTION III - PHYSICAL DATA**

Boiling Point.....	312.8°F(156°C)	Specific Gravity.....	1.134 gms/cc
Vapor Pressure..	N.K.	% Volatiles.....	N/A
Vapor Density.....	N/A	Solubility in Water.....	145 ppm @ 25°C
pH.....	N/A	Appearance/Odor.....	Clear brown to colorless; characteristic merc.

**SECTION IV - FIRE & EXPLOSION DATA**

Flash Point.....	325°F (162.7°C)
Extinguishing Media.....	Water, foam, carbon dioxide, or dry chemical
Fire Fighting Procedures.....	Wear self-contained, positive-pressure breathing apparatus & full firefighting protective clothing. Alert medical personnel

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## SECTION V - REACTIVITY DATA

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Stability.....	Stable
Conditions to Avoid.....	High temperature storage (>25°C)
Incompatibility.....	Strong alkalis, strong oxidizers, and iron
Hazardous Decomposition Products.....	Thermal decomposition may produce hydrogen sulfide, carbon dioxide, and sulfur dioxide
Hazardous Polymerization.....	Will not occur

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## SECTION VI - HEALTH HAZARD DATA

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Carcinogenicity.....	
Toxicity Data.....	Oral LD50(Rat)= 1000-2800 mg/kg Dermal LD50 (Rabbit)= 1695 mg/kg
TLV.....	15 mg/m <sup>3</sup>
N.F.P.A..... (Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)	Health 2, Fire 1, Reactivity 0
Effects of Overexposure.....	Headache, light-headedness, mioses, loss of accomidation, nausea, vomiting, hyperhidrosis, muscle faciulations, sphincter failure, coma

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## SECTION VII - EMERGENCY PROCEDURES

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### **Skin Contact:**

Wash skin with water, change clothing, obtain medical attention.

### **Eye Contact:**

Wash with water for at least 15 min. Obtain medical attention.

### **Inhalation:**

Remove victim to fresh air. Obtain medical attention.

### **Ingestion:**

Induce vomiting by giving at least 2 glasses of water and a) stimulating back of throat with fingers or b) giving syrup of ipicac 30ml. Never give anything by mouth to an unconscious person.

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## SECTION VIII - SPILL OR LEAK PROCEDURES

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### Steps to be taken in case of material leak or spill

Wear rubber boots, gloves, and splash goggles. Absorb spill material with clay or soda ash. Sweep up and place in a closed container. Treat contaminated area with a full-strength liquid household chloride.

### Waste Disposal Method

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

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## SECTION IX - SPECIAL PROTECTION INFORMATION

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Respiratory Protection.....	NOISH
Ventilation.....	Mechanical (Gen): If being worked in non-ventilated area
Protective Gloves.....	Rubber gloves
Eye Protection.....	Chemical splash goggles.
Other.....	Wear apron, boots, long sleeve shirt, and full length pants or coveralls.

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## SECTION X - SPECIAL PRECAUTIONS

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### Precautions To Be Taken In Handling & Storage

KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

Keep material in original containers. Store away from foodstuffs. Avoid contact with skin and eyes.

Storage at temperatures not exceeding 25°C (77°F) is recommended. It should never be heated above 55°C (131°F) and also local heating above this temperature should be avoided.

Regulated at or above 100 lbs. / Below 100 lbs. Not regulated.

D.O.T. Description.....	Environmentally Hazardous Substances, Liquid, N.O.S., (Malathion), 9, UN-3082, PG-III, Marine Pollutant.
Freight Description.....	Environmentally Hazardous Substances, Liquid, N.O.S., (Malathion), 9, UN-3082, PG-III, Marine Pollutant.
Reportable Quantity.....	100 Lbs.
E.R.G. Guide Sheet No.....	171

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