

**Gro Tec, Inc.**  
**P.O. Box 290 - Madison, Ga 30650**  
**Material Safety Data Sheet**

**ELIMINATOR MALATHION 50% INSECT SPRAY**

This product is used by Homeowners and Professionals

MSDS NO. ELI-08

AUG. 1997

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**SECTION 1 - PRODUCT IDENTIFICATION**

Chemtrec Transport Emergency

Telephone: 1-800-424-9300

EPA Reg. Number: 59144-1

Chemical Name: Malathion-O,O-dimethyl phosphorodithioate of dimethyl mercaptosuccinate

Trade Names: Malathion

Non-Transportation Emergency

Pennington/Gro Tec, Inc.: 706-342-1234

- Poison Control Center

Atlanta: 1-800-282-5846

**SECTION 2 - COMPOSITION**

Component

Percentage

ACGIH Exposure Limit

OSHA Exposure Limit

Malathion [121-75-5]

50.0%

TLV - 10 mg/m<sup>3</sup>

PEL - 10 mg/m<sup>3</sup>

Inert Carrier including:

50.0%

-Aromatic Solvent [25551-13-7]

100 ppm (company recommendation)

**SECTION 3 - HEALTH HAZARD DATA**

**EMERGENCY OVERVIEW**

An amber liquid with a disagreeable, mercaptan odor that is:

- \* Harmful if swallowed.
- \* Toxic to fish, aquatic invertebrates and aquatic life stages of amphibians.
- \* Combustible

**ROUTE(S) OF ENTRY:** Ingestion, inhalation and skin contact

**EYES:** May cause irritation.

**SKIN:** May cause irritation.

**INGESTION:** Harmful if swallowed.

**SIGNS AND SYMPTOMS:** Excessive exposure may produce organophosphate-type cholinesterase inhibition. Signs and symptoms of excessive exposure to malathion may be headache, dizziness, incoordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhea, sweating, pinpoint pupils, blurred vision, salivation, tearing, tightness in chest, excessive urination, and convulsions.

**SECTION 4 - FIRST AID**

**IF SWALLOWED:** Call a Physician or Poison Control Center immediately. Induce vomiting by giving victim 1 or 2 glasses of water and touching back of throat with finger. DO NOT induce vomiting or give anything by mouth to an unconscious or convulsing person.

**IF IN EYES:** Flush eyes with plenty of water. Get medical attention immediately.

**IF ON SKIN:** Remove contaminated clothing and wash affected areas with soap and water. Get medical attention if irritation persists.

**IF INHALED:** Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention.

**NOTE TO PHYSICIAN:** Malathion upon exposure may cause cholinesterase inhibition. Atropine is antidotal. Product contains aromatic solvent which may present aspiration hazard. Gastric lavage indicated if product was swallowed.

**SECTION 5 - FIRE & EXPLOSION HAZARDS**

**FLASH POINT:** 113<sup>0</sup> F

**EXTINGUISHING MEDIA:** Water Fog; CO<sub>2</sub> or Chemical Foam

**SPECIAL FIRE FIGHTING PROCEDURES:** Foam/Fog system preferred. Remove closed case goods from path of fire. Use fog nozzles if water is used. Use air supplied or canister breathing masks for protection against Malathion, Solvent or resulting vapors from fire as well as burning cases and containers. Containers may burst when exposed to high temperatures. Evacuate persons downwind.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** Containers will burst under extreme heat and solvent will burn violently.

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## **SECTION 6 - SPILL AND LEAK PROCEDURES**

Absorb with inert material such as sand or earth. Sweep up and dispose of with chemical waste.

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## **SECTION 7 - STORAGE & HANDLING**

Storage: Store product in its original labeled container in a cool, dry locked place out of reach of children.

Storage Temperatures: Ambient (Average Warehouse) Temperatures. Do not allow to freeze. Shelf Life: 1-2 YEARS

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing spray mist or vapors. Wash thoroughly after handling. Do not take internally. Wear long-sleeved work clothing. Change to clean clothing daily. Wash hands and face before eating.

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## **SECTION 8 - SPECIAL PROTECTION INFORMATION**

Respirator Type: Outdoor product use. None needed.

Eye Protection: Safety glasses or goggles should be worn to protect against possible liquid splash or spray mist.

Gloves: Rubber or neoprene work gloves.

Other Protection: Body covering clothing; shoes. **KEEP OUT OF REACH OF CHILDREN!!**

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## **SECTION 9 - PHYSICAL DATA**

Physical Form: Liquid Solvent Base

Color: Amber

Vapor Pressure: N/E

Bulk Density: N/A

Odor: Disagreeable/Mercaptan

Specific Gravity: 8.73 lbs./G

Flash Point: 113° F

pH: 6.5-7.0

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## **SECTION 10 - REACTIVITY DATA**

Stability: Stable.

Polymerization: Will not occur

Conditions To Avoid: Storage temperatures above 100 degrees will lead to non-hazardous decomposition. Alkalies, Strong Acids. Do not allow moisture to enter container. Keep tightly closed.

Decomposition Products: When heated to decomposition produces carbon monoxide, carbon dioxide, sulfur dioxide and phosphorus trioxide.

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## **SECTION 11 - TOXICOLOGICAL INFORMATION**

LD<sub>50</sub> ORAL (rat) \*>1500 mg/kg

LD<sub>50</sub> DERMAL (rabbit) \*>2000 mg/kg

EYE (rabbit): Temporary irritation from spray mist

\*PRODUCT IS PACKAGED IN CHILD RESISTANT PACKAGING

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## **SECTION 12 - ECOLOGICAL INFORMATION**

This pesticide is toxic to fish, aquatic invertebrates and aquatic life stages of amphibians. Do not apply directly to water or wetlands (i.e. swamps, bogs, marshes, and potholes). Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

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### **SECTION 13 - DISPOSAL**

Product Disposal: Do not contaminate water, food or feed by storage or disposal. Excess product may be disposed of on site or at an approved waste disposal facility or used as directed or use product as instructed.

Container Disposal: Do not re-use empty containers. Wrap in several layers of newspaper and discard in trash.

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### **SECTION 14 - TRANSPORTATION**

Proper Shipping Name: Eliminator Malathion 50% Insect Spray

Technical Name (if applicable):

UN Initial & Number: Not regulated

Class:     

Packing Group:

RQ: Not required

Hazard Labels: None required

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### **SECTION 15 - REGULATORY INFORMATION**

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### **SECTION 16 - OTHER INFORMATION**

#### **NOTICE FROM GRO TEC, INC.**

The information contained herein is offered only as a guide to the handling of this specific material. Since such information does not relate to use of the material with any other material or in any process, any person using this information must determine for himself its suitability for any particular application. The buyer and user assumes all risk and liability of use, storage and/or handling of this product not in accordance with the terms of the product label.

#### **ABBREVIATIONS KEY:**

N/A = Not available or applicable

N/E = Not established

TLV=Threshold Limit Value

PEL= Permissible Exposure Limit