



# MALATHION 8-E INSECTICIDE

## Organophosphate Insecticide

### AGRICULTURAL INSECTICIDE EMULSIFIABLE LIQUID

ACTIVE INGREDIENT:	% BY WEIGHT
Malathion (O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate) .....	79.5%
INERT INGREDIENTS: .....	20.5%
TOTAL	100.0%

Contains 8 lbs. Malathion per gallon  
AGRICULTURAL INSECTICIDE EMULSIFIABLE LIQUID

## KEEP OUT OF REACH OF CHILDREN CAUTION

See Below For Additional Precautionary Statements.

EPA REG. NO. 34704-452

EPA EST. NO. 34704-MS-1

NET CONTENTS 1 GAL. (3.78 L)

IHT

06Y06

### FIRST AID

<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

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

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL:  
1-800-301-7976**

## PRECAUTIONARY STATEMENTS HAZARDOUS TO HUMANS & DOMESTIC ANIMALS

### CAUTION

Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with eyes, skin, or clothing. May cause sensitization following repeated contact with skin. If sensitization reactions result, contact a physician.

### Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category (F) on the EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, chemical-resistant gloves, such as: barrier laminate, butyl rubber, nitrile rubber, or viton; and shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### Engineering controls statements:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

### PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves, such as: butyl rubber, nitrile rubber or viton; and shoes plus socks.

# MALATHION 8-E

## EPA REG. NO. 34704-452

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.  
Do not allow contact with treated surface until spray has dried.

### STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly.

**STORAGE:** Store in safe manner. Store in original container only. Store in cool, dry place. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL: Metal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. **Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### USE DIRECTIONS

Pour specified amount of this product into nearly filled spray tank. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. If mixture does not mix readily, but tends to separate as an oily layer, do not use as injury to plants may result. Do not combine with wettable powders unless previous use of the mixture has proved physically compatible and safe to plants. Always thoroughly emulsify this product with at least half of total water before adding wettable powder. Maximum permissible rate per acre, expressed as MALATHION 8-E is given in parenthesis, ( ), after each crop claim.  
Rinse spray equipment.

In order that pesticidal residues on food and forage crops will not exceed tolerances established by the Federal Food and Drug Administration, use only at recommended rates and intervals, and do not apply closer to harvest than specified. **The grower is responsible** for residues on his crops as well as for damages caused by drifting from his property to that of others.

Consult State Agricultural Experiment Stations or the State Agricultural Extension Services for additional information as to the timing, number and rate of applications needed will vary with local conditions.

### CHEMIGATION:

Refer to supplemental labeling entitled "APPLICATION THROUGH IRRIGATION SYSTEMS CHEMIGATION" for use directions for chemigation. Do not apply this product through any irrigation systems unless the supplemental labeling on chemigation is followed.

### TREE FRUIT CROPS

Unless otherwise specified, rates are given in terms of pints MALATHION 8-E per 100 gallons of water for thorough coverage sprays. Unless otherwise specified, apply at the first sign of infestation and repeat at 7-10 day intervals as needed to maintain control, but observe use limitations given for specific crops.

**GRAPEFRUIT, ORANGES, TANGERINES, TANGELOS**—California red scale, yellow scale, purple scale, black scale (single and off-brooded) soft scale, thrips, citricola scale, orangeworm, aphids: ¾-1 pt. Do not apply within 7 days of harvest. Make no application when trees are in full bloom. California Do not apply unless parasite activity in the scale is at a low level or absent. (25 pts.)

### VEGETABLE AND FIELD CROPS (Also see Use Directions)

Unless otherwise indicated, dosages are given in pints of MALATHION 8-E per acre in sufficient water to provide thorough coverage. Begin applications when insects first appear and repeat at 7-10 day intervals as needed to maintain control, but observe use limitation given for specific crops.

**ALFALFA, CLOVER**—Alfalfa weevil larvae, aphids, armyworms, clover leaf weevil, grasshoppers, lygus bugs, pea aphid, leafhoppers (including potato leafhoppers), spider mites, spittlebugs, vetch bruchid: 1-1½ pt. Use higher rate for armyworm control. May be applied on day of harvest. Apply to alfalfa in bloom only in the evening or early morning when bees are not working in the field or are not hanging on the outside of the hives. For rate above 1½ pt., DO NOT apply within 7 days of harvest. (2 pts.)

**BEANS (Dry & Succulent)**—Aphids, asparagus beetle, cucumber beetle, Japanese beetle, leafhoppers (including potato leafhopper), Mexican bean beetle, nitidulid beetle, spider mites, pea leaf weevil: 1-1½ pt. Lygus bugs on dry beans in California: 1-1½ pt. Thrips, do not apply within 1 day of harvest (1¼ pt.). Do not graze or feed treated crop foliage.

**COTTON**—Aphids, brown cotton leafworm, cotton leaf perforator, leafhoppers, spider mites, whitefly: 1/3-1½ pt. Cotton aphid, thrips: 1 pt. Cotton fleahoppers: ¾-1 pt. Fall armyworms, boll weevils, grasshoppers, garden webworms and lygus bugs: 1-2 pts. (4 pts.). Do not graze or feed treated crop foliage.

**CUCUMBERS, SQUASH**—Aphids, cucumber beetle, cutworms, darkling ground beetles, leafhoppers, pickleworm, spider mites, squash vine borer, thrips: 1 ¾ pts. Do not apply on cucumber and squash unless plants are dry or within 1 day of harvest. (1¾ pts.)

**GRAPES**—European fruit lecanium, grape leafhopper, mealybug, spider mites: 1-2½ pts. Do not apply within 3 days of harvest. Injury may occur to Ribier, Cardinal and Almeria grapes varieties when applications are made after the clusters appear. (2¾ pts.)

Application on vegetables, row and field crops can be made by aircraft or ground power equipment. The amount of water needed to treat an acre varies, therefore the following rates are given to cover a broad range of conditions.

AIRCRAFT: 5-10 gals. water/acre GROUND: 20-100 gals. water/acre.

**GRASS** Grass hay pasture and Rangeland (barn grass, canary grass, fescue, orchard grass, red top, timothy and yellow foxtail) Aphids, leafhoppers: 1-1¼ pts. Repeat application as necessary. Apply up to and including one day of harvest on grasses. (Grasses 1¼ pts.)

**LETTUCE, ENDIVE**—Aphids, alfalfa looper, cabbage looper, leafhoppers, mites: 1-2 pts. Do not apply within 14 days of harvest on leaf lettuce; 7 days on endive and head lettuce. (2 pts.)

**PEPPERS**—Aphids, pepper maggot: 1½ pts. Do not apply within 3 days of harvest. (1½ pts.)

**POTATOES**—Aphids, blister beetles, false chinch bugs, leafhoppers, mealybugs: 1 to 3 pts. for control of chinch bug, leafhoppers and mealybugs; 2½ pts. for control of aphids and blister beetle (3 pts.)

**SMALL GRAINS (Barley, oats, rye, wheat)**—Armyworms, English grain aphids, grasshoppers, greenbugs: 1-1¼ pts. Do not apply within 7 day of harvest. (1¼ pts.)

**STRAWBERRIES**—Aphids, field crickets, lygus bugs, potato leafhoppers, spider mites, spittlebugs, strawberry leafroller, thrips, whitefly: 1½-2 pts. Do not apply within 3 days of harvest. (2 pts.)

**TOMATOES**—Aphids, spider mites, 1½ pts. Drosophila flies: 2 pts. in full coverage application to fruit and foliage. Do not apply within 1 day of harvest. (2 pts.)

**PASTURE AND RANGELAND**—Aphids, grasshoppers, leafhoppers: 1¼ pts. per acre in sufficient water for good coverage. Or use 1¼ pts. in 1 gallon of diesel fuel oil per acre by means of an airplane or a turbine-blower type sprayer. May be applied on day of harvest or grazing. (1¼ pts.)

### ORNAMENTALS

Dosages given are for use in 100 gallons of dilute spray. Aphids, European pine shoot moth, four-line leaf bug, Japanese beetle adult, lace bug, mealybug, millipedes, potato leafhopper, rose leafhopper, sawflies, scurfy scale, spider mites, springtails, sowbugs, tarnished plant bug, thrips, whitefly, euonymus scale, oyster shell scale: 1 pt. Azalea scale, bagworms, birch leafminer, boxwood leafminer, Fletcher scale, Florida-red scale, juniper scale, magnolia scale, oak kermes, pine leaf scale, tent caterpillar ..... 1¼ pts.  
Black scale crawlers, Monterey pine scale ..... 1 3/5 pts.  
Pine needle scale, wax scale ..... 2½ pts.  
For oyster shell, Fletcher, juniper, oak kermes and pine needle scales, apply when scale crawlers have settled on forage.

**CAUTION:** Avoid use on certain ferns including Boston, Maidenhair and Pteris, as well as some species of Crassula and Canaetri Juniper.

### MOSQUITO CONTROL

**Adult Mosquito and Fly Control:** Apply 7.2 to 9.6 fluid ounces per acre by air or ground equipment for control of adult flies and mosquitoes. Mix in sufficient water for good coverage with equipment used. Repeat as necessary. Can be applied to alfalfa, clover, pasture and range grass, grass hay, grain crops (including barley, oats, rye, and wheat), beans, rice, tomatoes and non-agricultural lands. Do not apply within 7 days of harvest on grain crops and rice; 5 days of harvest on corn; 1 day of harvest on beans and tomatoes. No time limitation on alfalfa, clover, pasture and range grass, grass and grass hay. Do not apply to alfalfa and clover in bloom. Do not use on seed alfalfa. Treat shrubbery and vegetation where mosquitoes may result. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shorelines may be treated, but do not use the broadcast application method.

MALATHION 8-E may be applied as a 2% to 5% spray or fog by trained personnel of Public Health Organizations, Mosquito Abatement Districts, Public Mosquito control Programs and Professional Pest Control Operators. Apply spray or fog, using suitable equipment, to non-agricultural areas such as lawns, areas outside of homes, commercial and industrial buildings. Apply in early mornings or late evenings for better effectiveness. Application time for control of adult mosquitoes should coincide with time of most activity of the mosquito. Avoid application when winds exceed 5 miles per hour as effectiveness will be reduced. Do not apply oil-based spray mixtures to valuable plants as injury may occur. Avoid spray contact with automobiles. Spray droplets of malathion may permanently damage automobile paint. In case of accidental exposure, wash car immediately. To make a 2% solution, dilute 1 part MALATHION 8-E to 45 parts water, fuel oil or diesel oil. When using kerosene-type solvent as carrier, dilute 1 part MALATHION 8-E in 45 parts of mixture consisting of 4 parts kerosene-type solvent and 1 part aromatic

**MALATHION 8-E**  
**EPA REG. NO. 34704-452**

hydrocarbon-type solvent. Apply 0.58 - 2.86 gallons finished spray per acre. For a 5% solution, dilute 1 part MALATHION 8-E in 18 parts of mixture using similar solvents. Apply 0.24 - 1.18 gallons finished spray per acre.

**Mosquito Larva in Standing Water**—Apply MALATHION 8-E at the rate of 8 fluid ounces (approximately ½ lb. actual malathion) per acre. Mix in sufficient water or oil to obtain even coverage when applied by air or ground equipment. Repeat applications as necessary. Avoid applying oil-based spray mixtures to valuable plants as injury may occur. Broadcast use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially.

**FLY CONTROL**—For use around outside of buildings which house domestic animals around outside of homes, around yards and outside of meat processing plants. Apply spray at rate of 1 gal. per 1,000 sq. ft. on painted surfaces and 2 gals. per 1,000 sq. ft. on unpainted surfaces where flies alight or congregate. In most cases, adding molasses or sugar to the spray prolongs the insecticidal activity of malathion and serves as a fly attractant.

STRAIGHT MALATHION SPRAYS			MALATHION BAIT SPRAYS		
Amount of Spray	Amount of MALATHION 8EC	Amount of Bait Spray	Amount of MALATHION 8EC	Sugar (or)	Unsulfurized Molasses or Corn Syrup
2½ gals.	¾ cup	2½ gals.	¾ cup	1 cup	1 cup
12 gals.	1¼ pts.	2 gals.	1¼ pts.	2½ lbs.	1 qt.
100 gals.	1¼ gals.	100 gals.	1¼ gals.	20 lbs.	2 gals.

**DROSOPHILA FLIES AND DRIED FRUIT BEETLES**—On or around cull fruit and vegetable dumps, mix 7½ pts. in 100 gals. of water and apply as a drench, using 8-10 gals. of spray per 100 sq. ft. (for best results, dumps should not be over 18" deep). Do not feed treated fruit and vegetables.

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY BEFORE BUYING OR USING THIS PRODUCT**, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL, THIS PRODUCT IS SOLD AS IS TO THE EXTENT ALLOWED BY APPLICABLE LAW. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL, BUYER OR USER MUST SEND, TO THE EXTENT REQUIRED BY APPLICABLE LAW, WRITTEN NOTICE OF SUCH CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, 7251 WEST 4TH STREET, GREELEY, CO 80634.

TO THE EXTENT ALLOWED BY APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT ALLOWED BY APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

FORMULATED FOR



P.O. BOX 1286, GREELEY, COLORADO 80632-1286