

19713-304

10/13/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

OCT 13 2011

Luz G. Chan  
Registration Manager  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

Dear Ms. Chan:

Subject: Submission of amended labeling per Use Deletion Guidance 12/30/08 and revised May 2009 Malathion RED Label Table  
EPA Reg. No. 19713-304  
Submissions dated August 19, 2009

The proposed labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you submit two copies of your final printed label before you release the product for shipment. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

Your product has met and is in compliance with the risk mitigation provisions of the 2009 Malathion RED and therefore your product is reregistered pursuant to FIFRA § 4(g)(2)(C). But note, EPA is currently reassessing the cumulative impact of organophosphates and that review may impact your product once complete.

A stamped copy is enclosed for your records. If you have any questions, please contact me at (703) 308-8043 or [lewis.marianne@epa.gov](mailto:lewis.marianne@epa.gov).

Regards,

A handwritten signature in black ink, appearing to read "Marianne Lewis".

Marianne Lewis, Acting PM 01  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosure

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**ACCEPTED**  
10/13/11  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
Registered under  
EPA Reg. No. 19713-304



# **Green Devil Spray**

Contains 50% Malathion

Controls listed insect pests on vegetables and outdoor ornamental plants.

<b>ACTIVE INGREDIENT:</b>	
Malathion .....	50.0%
<b>OTHER INGREDIENTS**:</b> .....	50.0%
<b>TOTAL:</b> .....	100.0%

\* O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate.  
\*\*Contains petroleum distillate  
This product contains 4.3 lbs. of malathion per gallon.

## **KEEP OUT OF REACH OF CHILDREN CAUTION**

See **FIRST AID** Below

EPA Reg. No. 19713-304  
EPA Est. No. 19713-XX-XXX

Net Content: \_\_\_\_\_

<b>FIRST AID</b>
<b>IF SWALLOWED:</b> • 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 by a poison control center or doctor. • Do not give anything by mouth to an unconscious or convulsing person.
<b>IF ON SKIN OR CLOTHING:</b> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
<b>IF IN EYES:</b> • 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, then continue rinsing eye. • 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. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.
<b>Note to Physician:</b> Malathion may cause cholinesterase inhibition. Atropine is antidotal. Contains petroleum distillate. May pose aspiration pneumonia hazard. Malathion is an organophosphate insecticide/miticide.

Manufactured By:



The Drexel logo is a registered trademark of Drexel Chemical Company.

304SP-1011\*P

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemically-resistant to this product are barrier laminate or viton  $\geq$  14 mils. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

**Mixers, loaders, applicators, flaggers and other handlers must wear:** Long-sleeved shirt and long pants, chemical-resistant gloves, and shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

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

### ENGINEERING CONTROLS

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40CFR170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators.

### USER SAFETY RECOMMENDATIONS

**Users should:** 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) 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 aquatic organisms, including fish and invertebrates. This product may contaminate water through drift of spray in wind. This product has a high potential for runoff after application. Use care when applying in or to an area which is adjacent to any body of water, and do not apply when weather conditions favor drift from target area. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

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 washwater or rinsate.

This pesticide 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 while bees are actively visiting the treatment area.

**For Products Packaged in Containers Equal to or Greater than 5 Gallons:** Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product for sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

### 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. 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. 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 (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries 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 (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI. The REI for each crop is listed in the Directions for Use associated with each crop.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

#### 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 (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests or nurseries.

Do not enter or allow others to enter until sprays have dried.

#### SPRAY DRIFT REQUIREMENTS

Observe the following requirements when spraying in the vicinity of aquatic areas such as, but not limited to lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish ponds.

##### Droplet Size

Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure. For groundboom and aerial applications, use only medium or coarser spray nozzles according to ASAE (S572) definition for standard nozzles, or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

##### Wind Direction and Speed

Make aerial or ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph. For all non-aerial applications, wind speed must be measured adjacent to the application site of the upwind side, immediately prior to application.

##### Temperature Inversion

Do not make aerial or ground applications into areas of temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

**Additional Requirements for Ground Applications**

Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided. For groundboom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

**Additional Requirements for Aerial Applications**

For aerial applications, the spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or 90% rotor diameter.

Aerial applicators must consider flight speed and nozzle orientation in determining droplet size.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

**Buffer Zones for Aerial Application**

When making a Non-ULV application with aerial application equipment, a minimum buffer zone of 25 feet must be maintained along any water body.

**VEGETABLES**

PHI = Pre-Harvest Interval

REI = Restricted Entry Interval

Spray infested plants thoroughly. Be sure to wet the underside of leaves. Apply this product in a minimum of 30 gallons of water by ground equipment or 5 gallons of water by air equipment unless otherwise specified. Best results are obtained with uniform coverage. Under heavy pest pressure, use higher rate.

Vegetable Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Broccoli (REI = 48 hrs.)	Asparagus aphids, Cabbage loopers, Imported cabbageworms	1 to 2.3 pts.	2
<b>USE RESTRICTIONS:</b> The maximum application rate is 1.25 pounds a.i. (2.3 pints of this product) per acre; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.			
Brussel sprouts (REI = 48 hrs.)	Aphids	1 to 2.3 pts.	2
<b>USE RESTRICTIONS:</b> The maximum application rate is 1.25 pounds a.i. (2.3 pints of this product) per acre; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.			
Cabbage (REI = 48 hrs.)	Aphids, Cabbage loopers, Imported cabbageworms	1 to 2.3 pts.	7
	Diamondback moth, Webworms	2.3 pts.	
<b>SPECIFIC DIRECTIONS:</b> For control of Caterpillars on Summer and Fall plantings, begin when true leaves appear. On other plantings and for control of other insects, begin when insects appear.			
<b>USE RESTRICTIONS:</b> The maximum application rate is 1.25 pounds a.i. (2.3 pints of this product) per acre; the maximum number of applications per year is 6; and the minimum retreatment interval is 7 days.			
Cauliflower (REI = 48 hrs.)	Diamondback moth	2.3 pts.	2
	Aphids	1 to 2.3 pts.	
<b>USE RESTRICTIONS:</b> The maximum application rate is 1.25 pounds a.i. (2.3 pints of this product) per acre; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.			

(continued)

<i>(continuation)</i>			
Vegetable Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Kale (REI = 12 hrs.)	Aphids, Cabbage loopers, Imported cabbageworms	1 to 1.8 pts.	7
	Webworms, Diamondback moth	1.8 pts.	
	SPECIFIC DIRECTIONS: For control of Caterpillars on Summer and Fall plantings, begin when true leaves appear. On other plantings and for control of other insects, begin when insects appear.		
<b>USE RESTRICTIONS:</b> The maximum application rate is 1 pound a.i. (1.8 pints of this product) per acre; the maximum number of applications per year is 3; and the minimum retreatment interval is 5 days.			
Peas (Dry, Succulent) (REI = 12 hrs.)	Aphids, Grasshoppers	1.8 pts.	3
	Leafhoppers	1.25 to 1.8 pts.	
	SPECIFIC DIRECTIONS: Do not graze or feed treated crop foliage to livestock.		
<b>USE RESTRICTIONS:</b> The maximum application rate is 1 pound a.i. (1.8 pints of this product) per acre; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.			
Potatoes (REI = 12 hrs.)	Aphids, Grasshoppers, Leafhoppers	2 pts.	0
	False chinch bugs	1.5 pts.	
	Mealybugs	2 to 2.8 pts.	
<b>USE RESTRICTIONS:</b> The maximum application rate is 1.56 pounds a.i. (2.8 pints of this product) per acre; the maximum number of applications per year is 2; and the minimum retreatment interval is 7 days.			

**OUTDOOR ORNAMENTALS (REI = 12 HRS.)**

**ORNAMENTAL HERBACEOUS PLANTS, ORNAMENTAL AND/OR SHADE TREES, ORNAMENTAL WOODY SHRUBS AND VINES**

Injury may occur on Canareti juniper, Crassula, Ferns, Hickory, Lantana and Viburnum following the use of this product. Slight injury has also been reported on Boston and Maidenhair ferns, Maples, Petunias, Pteris, Small leaf spireas and White pines. Under extreme heat, drought and disease conditions, this product may cause slight damage to Elms.

**SPECIFIC DIRECTIONS:** Add specified amounts of water and this product to sprayer tank. Apply when insects or damage appear. Apply when air is calm. Start spraying at the farthest end of the treatment area and work backwards to avoid contact with wet surfaces. Spray thoroughly to wet upper and lower leaf surfaces, stems, and branches. Allow spray to dry in treated areas before reentering.

PEST	Rate per Gallon of Water
Aphids	1.5 to 2 tsps.
Bagworms, Japanese beetle adults, Mealybugs, Red spider mites, Rose leafhopper, Thrips, Whiteflies, Woolly aphids	1 tbsp.
Black scales (crawlers), Oyster shell scale, Soft brown scale	1.5 to 2 tsps.
<b>USE RESTRICTIONS:</b> Do not apply more than 2.5 pounds a.i. (4.6 pints of this product) per acre (1.6 fl. ozs. or 3 tsps. per 1,000 sq. ft.) per application. Maximum number of applications per year is 2.	

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE:** This product should be stored in its original, unopened container in a secure dry place. Do not contaminate with other pesticides or fertilizers. The product should never be heated above 55°C (131°F), and should not be stored for long periods of time at a temperature in excess of 25°C (77°F). Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from any heat or ignition source. Avoid storage at high temperatures. Do not stack over 2 pallets high. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original containers only. If the contents are leaking or material is spilled, follow these steps:

1. Collect and place in suitable containers for disposal.
2. Wash area with soap and water to remove remaining pesticide.
3. Follow washing with clean water rinse.
4. Do not allow runoff to enter sewer or contaminate water supplies.
5. Dispose of waste as indicated below.

**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**CONTAINER DISPOSAL:**

**Nonrefillable Container (rigid material; less than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration.

**Nonrefillable Container (rigid material; 5 gallons up to < 250 gallons):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration.

**Refillable Containers (≥ 250 gallons & Bulk):** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

### WARRANTY—CONDITIONS OF SALE

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.