

19713-232

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



OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

September 1, 2005

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

Dear Ms. Chan:

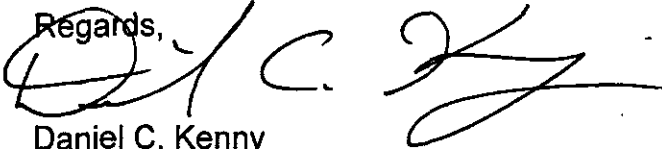
Subject: Revised Labeling for EPA Reg. No. 19713-232  
Drexel Dimethoate 2.67  
Use Deletions of Dimethoate as Requested by the Agency  
Your Submission Dated November 18, 2004

The label for the product referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided you make the following changes to the label:

1. In accordance with the Label Review Manual, since your product contains  $\geq 10\%$  petroleum distillate, revise the First Aid table as follows:
  - a. Change the second "If Swallowed" statement from "Have person sip a glass of water if able to swallow" to "Do not give any liquid to the person."
  - b. In the "Note to Physician" section revise the statement "Aspiration solvent may cause severe lung damage" to "Contains petroleum distillate. Vomiting may cause aspiration pneumonia."
2. Under the section entitled "ORNAMENTALS (Outdoor Nurseries Only)":
  - a. Modify the first statement to read as follows, "Do not use on ornamental plants growing in greenhouses, Christmas tree and conifer plantations, landscapes, interiorscapes and residential, public, recreational, commercial, industrial and institutional establishments."
  - b. For your information, the restriction on the use of dimethoate in shade houses has been re-examined by the Agency. Therefore, "shade houses" is no longer required in the statement above. However, please note there is no guarantee that shade houses will remain a supported use site upon reregistration.

c. In the statement beginning with, "For ornamental shade and nursery trees..." delete the parenthetical statement, "(including, but not limited to, those trees listed otherwise in the following directions)."

A stamped copy of the label is enclosed for your records. Submit two copies of your final printed labeling before you release the product for shipment. If you have any questions, please contact Ann Hanger at (703) 306-0395 or [hanger.ann@epa.gov](mailto:hanger.ann@epa.gov).

Regards,  
  
Daniel C. Kenny  
Product Manager 1  
Insecticide/Rodenticide Branch  
Registration Division (7505C)

Enclosure (1)

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

SEP 1 2005  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
19713-232

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# Dimethoate 2.67

Systemic Insecticide / Miticide

**ACTIVE INGREDIENT:**

Dimethoate: .....	30.5%
<b>OTHER INGREDIENTS*:</b> .....	<b>69.5%</b>
<b>TOTAL:</b> .....	<b>100.0%</b>

This product contains 2.67 pounds of Dimethoate per gallon.  
\*Contains Xylene-range aromatic solvent.

## KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See **FIRST AID** Below  
**SHAKE WELL BEFORE USING**

EPA Reg. No. 19713-232

EPA Est. No. 19713-GA-1

Net Contents: \_\_\_\_\_

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 person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious or convulsing person.</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 to 20 minutes.</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 mouth-to-mouth, if possible.</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 to 20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> </ul>
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> Atropine is antidotal. Pralidoxime chloride may be effective as an adjunct to atropine. This product may cause cholinesterase inhibition. Aspiration solvent may cause severe lung damage. If swallowed, stomach contents should be evacuated quickly in a manner which avoids aspiration. Otherwise treatment should be directed at the control of symptoms and clinical condition. Dimethoate is an organophosphate insecticide/miticide.	

**PRECAUTIONARY STATEMENTS (Cont.)**

Rubber, chemical-resistant footwear plus socks, protective eyewear and chemical-resistant headgear for overhead exposure. For exposures in enclosed areas, a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter. For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any R, P or HE filter. 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, use detergent and hot water. Keep and wash PPE separately from other laundry. When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR Part 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

**Users should:** 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing 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 wildlife and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning equipment or disposal of wastes. **BEE CAUTION:** This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops if bees are visiting the treatment area.

**CHEMICAL HAZARDS**

Do not use, pour, spill or store near heat or open flame. Do not use this product in or on electrical equipment due to possibility of shock hazard.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. **BEFORE USING, READ WARNING STATEMENTS ON CONTAINER LABEL.** Do not use on crops grown in greenhouses. 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.

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**WARNING:** Harmful or fatal if swallowed. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes and clothing. May cause eye irritation. Use only with adequate ventilation.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category B on an EPA chemical resistance category selection chart. **Applicators and other handlers must wear:** Long-sleeved shirt and long pants, chemical-resistant gloves such as Barrier Laminare or Butyl

(Continued)

Manufactured By:  
**Drexel Chemical Company**  
P.O. BOX 13327, MEMPHIS, TN 38113-0327  
**SINCE 1972**

## 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, 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 intervals (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 of 48 hours.

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 such as Barrier Laminate and Butyl Rubber; chemical-resistant footwear plus socks, protective eyewear and chemical-resistant headgear for overhead exposure.

## DIRECTIONS FOR DILUTION UNLESS STATED

**Ground Application:** Apply specified rate in sufficient water for thorough coverage.

**Air Application:** Apply specified rate in 2 to 10 gallons of water unless otherwise specified. Repeat applications as necessary unless otherwise specified. Consult your State Experiment Station or State Extension Service for proper timing of applications.

**General Chemigation Instructions:** Apply this product only through one or more of the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin); furrow; border; or drip (trickle) irrigation system(s). Do not apply this product through any other type of irrigation system.

Crop injury or lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**A. Center Pivot, Traveler, Bug Gun, Motorized Lateral Move, End Tow, and Side (Wheel) Roll Irrigation Equipment:** Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank or injection equipment with water. Operate system for one complete circle for center pivot or one complete run for the other recommended equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix recommended amount of product for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run, but continue to operate irrigation system until the product has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

**B. Solid Set and Hand Move Irrigation Equipment:** Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of product for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that the product will remain in suspension during the injection cycle. This product will remain in suspension during the injection cycle. This product can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until pesticide is cleared from last sprinkler head.

**C. Flood (Basin), Furrow and Border Chemigation (Soil Drench Uses):** Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank or injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of product for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that the product will remain in suspension during the injection cycle. This product can be injected at the beginning or end of the irrigation cycle or as a separate application. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops. Systems utilizing a pressurized water and pesticide injection system must meet the requirements listed in the section titled "Safety Devices" below.

**D. Drip (Trickle) Chemigation (Soil Drench Uses):** Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank or injection equipment with

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water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of product for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that the product will remain in suspension during the injection cycle. This product can be injected at the beginning or end of the irrigation cycle or as a separate application. Systems must meet the requirements listed in the section titled "Safety Devices" below.

## SAFETY DEVICES

(1) The systems designated above must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. (2) All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. (3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. (4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. (5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. (6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. (7) Do not apply when wind speed favors drift beyond the area intended for treatment.

## SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

For additional instructions on safety precautions refer to the section on SAFETY DEVICES.

## ORNAMENTALS (Outdoor Nurseries Only)

Do not use this product on ornamental plants grown in greenhouses, shade houses, landscapes, interiorscapes and residential, public, recreational, commercial, industrial and institutional establishments.

This product is generally effective in controlling aphids, thrips, leaf miners, scales, leafhoppers and mites. Make adequate spray when pests appear or when damage is first observed. Do not overdose or overspray. For proper timing of treatments for the control of specific pests on ornamental plants, consult your state agricultural experiment station or state agricultural extension service.

Do not use on ornamental plants not listed. Do not use on any ornamental stock plants grown as a source of propagation material, such as cuttings, layers, root stocks or scions for grafting or budding. Do not use in spray mixtures containing oil. Do not use on plants growing in greenhouses.

For ornamental shade and nursery trees (including, but not limited to, those trees listed otherwise in the following directions) to control aphids and elm leaf beetle, apply as a soil injection at the rate of one-half teaspoonful of product per inch of tree circumference measured at approximately 4.5 to 5 feet above ground level. Apply using a low-pressure injector to a 4 to 6 inch level below ground surface within the dripline of the tree. Water heavily after application. Application should be made once per growing season (twice per season for elm leaf beetles; once shortly after trees leaf out, and once 6 to 8 weeks later). Some species such as River Birch, Prunus, Ornamental Cherry, Hawthorne, Japanese Lace Maple and Aspens may show phytotoxic effects at label rates. DO NOT USE ON BEARING FRUIT TREES.

**IMPORTANT:** When making soil injections, use a low pressure soil injection device. Always wear a full face shield, rubber gloves, long-sleeved shirt and rubber apron. DO NOT inject into soil areas where children or pets may dig or exhume treated soil.

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**ORNAMENTALS (Outdoor Nurseries Only) (Con't)**

Ornamental Plants	Pests Controlled	Amount per 6 Gals. of Water
Arborvitae	Aphids, Bagworms, Mites	3 fl. ozs.
Azaleas (Outdoor plants)	Lace bugs, Leafminers, Mites, Tea scales, Whiteflies	1.5 fl. ozs.
Birch	Aphids, Leafminers	0.75 fl. oz.
	SPECIFIC DIRECTIONS: For Leafminers - Apply when leaves are expanded (about mid-May) and repeat in early July.	
Boxwood	Leafminers, Mealybugs, Mites	1.5 fl. ozs.
	SPECIFIC DIRECTIONS: For Leafminers - Apply in Spring when Leafminer flies first appear or in early Summer for control of larvae in the infested leaves.	
Camellias	Aphids, Mites, Scales (Camellia, Tea)	1.5 fl. ozs.
	SPECIFIC DIRECTIONS: Foliar Spray - Apply 2 sprays 6 weeks apart the first year followed by annual applications soon after first growth begins in the Spring. Soil Drench - Apply as a soil drench around the base of plants in early Spring at the rate of 4 tbsps. per gal. of water per plant up to 6 ft. tall. Increase this rate proportionately for larger plants.	
Camations	Aphids, Mites, Thrips	1.5 fl. ozs.
	SPECIFIC DIRECTIONS: Soil Drench - Apply as a soil drench at the rate of 4 fl. ozs. per 500 sq. ft. of bed or bench (5 qts. per 0.5 acre) in sufficient water for even distribution. Water thoroughly after application.	
Cedar	Mites	3 fl. ozs.
Cottonwood (Poplar)	Aphids, Bagworms, Leaf beetles	-
	SPECIFIC DIRECTIONS: Foliar Spray - Apply 3 fl. ozs. Repeat on a 10 day interval, as necessary, up to 4 sprays per year. Soil Injection - Apply as a soil injection at the rate of 0.12 fl. oz. per inch of tree circumference measured approximately 5 ft. above ground level. Application should be made shortly after trees leaf out and again 6 to 8 weeks later, if necessary. Inject to a 4 to 6 inch level below ground surface. Number of injections should equal inches of tree circumference. Water heavily with at least 2 inches of water. Leaf beetle (Chemigation) - 2 to 6 pints per acre through drip line. Application may be repeated two times. Refer to section titled "Drip (Trickle) Chemigation (Soil Drench Uses)" for additional application information.	
Christmas Trees	Balsam twig aphid, Blue aphid, Bagworms, European pine shoot moth, Mites, Nantucket pine tip moth, Zimmerman pine moths	4.5 tps. per gal. of water
	SPECIFIC DIRECTIONS: Do not use on Japanese maples or Red leaf ornamental spp.	
Cypress	Bactra moths larvae	1.5 fl. ozs.
	SPECIFIC DIRECTIONS: Apply as a drenching spray.	
Day lilies	Aphids, Thrips	3 fl. ozs.
Douglas fir	Fir cone midge	6 tps. per gal. of water
	SPECIFIC DIRECTIONS: Make thorough coverage application when cones are closed and pendant. Use hydraulic or backpack sprayer.	
Euonymous	Aphids, Scales	3 fl. ozs.
Fraser Fir	Rosetta bud mite	1.5 to 3 tps. per gal. of water
	SPECIFIC DIRECTIONS: Use a high pressure hydraulic sprayer with a handheld spray gun to thoroughly wet trunk and limbs on front and back of tree.	
Ficus nitida (Outdoor plants)	Thrips	1.5 fl. ozs.
	Note: Do not use on potted plants.	
Gardenias	Tea scales, Whiteflies	1.5 fl. ozs.
Gerberas	Thrips	
Gladiolus	Aphids, Thrips	2 tps. per gal. of water
Hackberry	Hackberry nippegall psyllid, Hackberry budgall psyllid	1:2 dilution
	SPECIFIC DIRECTIONS: Soil Injection: Use a 1:2 dilution (1 fl. oz. of this product for every 2 fl. ozs. of water). Apply using a low-pressure injector. Inject 1 fl. oz. of dilution 6 inches below ground for each 0.5 inch of trunk diameter. Make insertions within dripline of tree. Apply prior to bud break. Do not apply to plants that have not been established for at least 3 years.	
Hemlock	Mites, Scales	1.5 fl. ozs.
Holly (English and American, not Buford variety)	Leafminers, Soft scales, Mites	1.5 fl. ozs.
	SPECIFIC DIRECTIONS: For Leafminers - Apply in Spring when Leafminer flies first appear or in early Summer for control of larvae in infested leaves.	

(Continued)

**ORNAMENTALS (Outdoor Nurseries Only) (Con't)**

Ornamental Plants	Pests Controlled	Amount per 6 Gals. of Water
Honeysuckle	Honeysuckle Aphid	1:2 dilution
	SPECIFIC DIRECTIONS: Soil Injection: Use a 1:2 dilution (1 fl. oz. of this product for every 2 fl. ozs. of water). Apply using a low-pressure injector. Inject 1.25 fl. oz. of dilution 6 inches below ground for each 0.5 inch of trunk diameter. Do not apply to plants that have not been established for at least 3 years.	
Iris	Aphids, Iris borers, Thrips	3 fl. ozs.
	SPECIFIC DIRECTIONS: For Borer Control - Spray when new leaves are 5 to 6 inches tall.	
Oak	Golden oak scales	3 fl. ozs.
Pine & Juniper	Aphids, Bagworms, European pine shoot moths, Nantucket pine tip moths, Zimmerman pine moths, Midge, Mites	
Pinyon Pine	Pinyon needle scales	3.75 tbsps. per 1 gallon of water
	SPECIFIC DIRECTIONS: 3.75 tablespoons per gallon of water (18.75 fl. ozs. in 10 gals. water). Apply spray to egg masses at the base of the trees and to all rough bark and crotches that can be reached from the ground. Make this bark application when crawlers start to emerge from the eggs. Use hydraulic or backpack sprayer. Do not spray leaves or needles since phytotoxicity may result.	
	Pinyon "pitch mass" borer, Pinyon spindle gall midge, Tip moth	1:2 dilution
	SPECIFIC DIRECTIONS: Soil Injection: Use a 1:2 dilution (1 fl. oz. of this product for every 2 fl. ozs. of water). Apply using a low-pressure injector. Inject 1.5 fl. ozs. of dilution 6 inches below ground surface for each 1 inch of trunk diameter. Make insertions within dripline of tree. For Spindle gall midge and Tip moth apply in mid to late Spring. For Pinyon borer make application in early Summer.	
Poinsettias (Outdoor plants)	Aphids, Mealybugs, Mites, Whiteflies	1.5 fl. ozs.
Roses	Aphids, Leafhoppers, Mites, Thrips	1.5 fl. ozs.
	SPECIFIC DIRECTIONS: Foliar spray: Apply 2 sprays 6 weeks apart the first year followed by annual applications soon after the first growth begins in the Spring. Soil Drench: Apply as a soil drench around the base of plants in early Spring at the rate of 4 Tablespoonfuls per gallon of water per plant.	
Taxus	Fletcher scales, Mealybugs, Mites	3 fl. ozs.

**FIELD CROPS**

Field Crop	Pest Controlled	Rate* per Acre	PHI (Days)
Alfalfa, Sainfoin	Aphids, Grasshoppers, Leafhoppers, Lygus bugs, Reduction of Alfalfa weevil larvae	0.75 to 1.5 pts.	10
	SPECIFIC DIRECTIONS: Do not feed livestock on treated crops, trashing or hay treated less than 10 days before harvest or pasture stubble sooner than 10 days after treatment. Make only one application per cutting. Effective only on cutting to which applied. This product is highly toxic to bees. Do not apply if bees are visiting the areas to be treated when crop or weeds are in bloom.		
Com (Field)	Banks grass mites (except Trans Pecos area of TX), Aphids, Bean beetles, Corn rootworm adult, Mites (including two-spotted spider mites), Thrips, Fleahoppers	1 to 1.5 pts.	14
	SPECIFIC DIRECTIONS: By air. Apply in 1 or more gallons of water per acre. Apply as necessary. Make no more than 3 applications per year. Do not apply during the pollen-shed period. Do not feed or graze within 14 days of last application.		
Cotton (Grown in AZ & CA)	Black fleahoppers, Leafhoppers, Lygus bugs, Thrips	0.75 to 1.5 pts.	14
	SPECIFIC DIRECTIONS: Do not repeat application within 14 days. Do not feed treated forage or graze livestock on treated fields. Make only two applications per season at the higher rate.		
Cotton	Aphids, Fleahoppers, Mites, Thrips, Plant bugs (including Lygus bugs)	0.33 to 1.5 pts.	14
	Fleahoppers (OK & TX)	0.33 to 0.66 pts.	14
	SPECIFIC DIRECTIONS: Do not repeat application within 14 days. Do not feed treated forage or graze livestock on treated fields.		

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**FIELD CROPS (Con't)**

Field Crop	Pest Controlled	Rate* per Acre	PHI (Days)
Safflower (Grown in CA & AZ)	Aphids, Leafhoppers, Lygus bugs, Plant bugs, Thrips	0.75 to 1.5 pts.	14
	SPECIFIC DIRECTIONS: Repeat applications should not be made at intervals closer than 14 days. Do not make more than 2 applications per season at the higher rate.		
Soybeans	Alfalfa loopers, Bean leaf beetle, Grasshoppers, Leafhoppers, Mexican bean beetles, Spider mites, Three-cornered alfalfa hopper,	1.5 pts.	21
	SPECIFIC DIRECTIONS: Apply above rate in 25 to 40 gals. of water per acre by ground application. For aerial application, apply above rate in 1 or more gals. of water per acre. Do not graze within 5 days of last application.		
Sorghum (Milo)	Aphids, Greenbugs, Mites (including Spider mites)	0.75 to 1.5 pts.	28
	Banks grass mites (excluding Transpecos area of Texas), Grasshoppers	1.5 pts.	28
	Sorghum midge	0.33 to 0.75 pts.	28
	SPECIFIC DIRECTIONS: Use 0.33 to 0.66 pt. per acre for light infestations on young Sorghum prior to head formation. Aerial application: Apply above rates in 1 or more gals. of water per acre. Do not feed or graze within 28 days of last application. Do not apply after head formation. Make only 3 aerial or ground applications per season as needed.		
Wheat, Triticale	Aphids, (Greenbugs), Wheat midge	0.75 to 1.13 pts.	14 (Grazing)
	Brown wheat mites	0.75 to 1.5 pts.	35 (Grain)
	Grasshoppers	1.13 pts.	
	SPECIFIC DIRECTIONS: Do not apply within 14 days of grazing immature plants. In CA, do not harvest Grain within 60 days of last application. Do not make more than two applications per season.		

\*Use the higher rate of application when insect pest population is high.

**FRUIT CROPS**

Fruit Crops	Pest Controlled	Rate per 100 gals. of water	PHI (Days)
Cherries, preharvest (Idaho, Oregon, Utah, Washington, and Montana only)	Aphids, Cherry fruit flies, Mites	0.75 to 1.5 pts.	21
	SPECIFIC DIRECTIONS: Dilute Application: Use 0.75 to 1.5 pints per 100 gallons of water. Concentrate Application: Use 3 to 6 pints per acre. Apply a minimum spray volume of 50 gallons per acre. Make a single application within 7 days of adult fly emergence in the area. This single application should be made in late May or early June when the fruit are small in size. NOTE: Concentrate sprays should be used with caution to avoid fruit marking and injury on sensitive varieties (such as Ranier species). Do not apply when trees or substantial numbers of weeds in the treatment area are in bloom. Do not graze livestock in treated orchards. Only a single application may be made. Use the higher rate of application when insect pest population is high.		
Cherries, postharvest (Idaho, Oregon, Utah, Washington, and Montana only)	Aphids, Cherry fruit flies, Mites	0.75 to 1.5 pts.	21
	SPECIFIC DIRECTIONS: Dilute Application: Use 0.75 to 1.5 pints per 100 gallons of water. Concentrate Application: Use 3 to 6 pints per acre. Apply a minimum spray volume of 50 gallons per acre. Make a single application a minimum of 7 days after final harvest or apply in cases where a decision is made not to harvest due to poor fruit quality, a light crop, or unfavorable market conditions. Do not apply when trees or substantial numbers of weeds in the treatment area are in bloom. Do not graze livestock in treated orchards. Only a single application may be made. Use the higher rate of application when insect pest population is high.		

(Continued)

**FRUIT CROPS (Con't)**

Fruit Crops	Pest Controlled	Rate per 100 gals. of water	PHI (Days)
Citrus (AZ & CA, Non-bearing & Nursery stock)	Aphids, Thrips	1.5 pts.	-
	SPECIFIC DIRECTIONS: Foliar Spray - Apply 1.5 pts. per 100 gals. of water. Repeat application as necessary. Applications may be made in the year the trees begin to bear fruit. Soil Drench - For trees 1 to 3 years old, apply 3 qts. per acre in the furrow or soil ring around the base of tree. Apply when insect injury to new growth begins. Do not apply to trees that will bear fruit in one year.		
Citrus (except Citrons, Kumquats and Limes) (AZ only)	Thrips	See Specific Directions	15
	SPECIFIC DIRECTIONS: Use specified dosage of this product in the amount of water necessary to achieve adequate coverage of foliage. The type of equipment used will determine the concentration required. Air Application - Apply up to 2 lbs. of active ingredient (3 qts.) in not less than 5 gals. of water per acre. Ground Application - Apply up to 2 lbs. of active ingredient (3 qts.) in not less than 20 gals. of water per acre. Do not enter treated groves within 4 days of last application. Use of dimethoate is prohibited during any time of day in any given orchard from when that orchard is 10% open blooms until such time as there has been at least 75% petal fall on the north side of the trees. Applications of dimethoate shall be limited to that period of time between one (1) hour after sunset to three (3) hours before sunrise when any one of the following conditions prevail: 1) Before the onset of petal fall, the orchard to be treated has open blooms present and these open blooms represent less than 10% of the total anticipated blooms in the orchard. 2) After the initiation of petal fall there are less than 25% of open blooms remaining in the orchard to be treated. 3) It is between the calendar dates of February 15th and May 1st. All applications of dimethoate on Citrus must be documented on Form 1080 written either by a pest control advisor, farm owner or farm manager as is normally required for custom applications of pesticides, except that private applicators may omit the "Pesticide Application Report" section. The description of the status of bloom of the orchard to be treated as it was at the time of the application shall be indicated in the section for "Label Restrictions/Special Instructions". Both private and custom applicators shall mail to the Agriculture Department's Phoenix office the original of each completed Form 1080 done in accordance with this label. Each Form 1080 shall be postmarked not later than Monday following the week in which the application was made, except when holidays intervene.		
Grapefruit, Kumquats, Lemons, Limes, Oranges, Pummelos, Tangelos, Tangerines	Aphids, Mites (except Rust mites), Thrips, Whiteflies	0.75 to 1.5 pts.	15
	SPECIFIC DIRECTIONS: Ground Equipment - 0.75 to 1.5 pts. per 100 gals. of water. Apply as a thorough distribution coverage spray. For concentrate (mist) application, apply 3 to 6 pints per acre in sufficient water to provide full coverage of foliage. By Air: Apply 3 to 6 pts. per acre in 5 to 10 gals. of water. Use the higher rate of application when insect pest population is high.		
	Scales (except Black or Snow)	0.75 to 2.25 pts.	15 (45)
SPECIFIC DIRECTIONS: Ground Equipment - 0.75 to 2.25 pts. per 100 gals. of water. Apply as a thorough coverage spray. For concentrate (mist) application, apply 3 to 6 pints per acre in sufficient water to provide full coverage of foliage. By Air: Apply 3 to 6 pints per acre in 5 to 10 gallons of water. When applying higher rates for scale control, the preharvest interval is 45 days. Use the higher rate of application when insect pest population is high.			
Melons (except Watermelons)	Aphids, Leafhoppers, Leafminers	0.75 to 1.5 pts.	3

(Continued)

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**FRUIT CROPS (Con't)**

Fruit Crops	Pest Controlled	Rate per 100 gals. of water	PHI (Days)
Pears	Aphids, Leafhoppers, Mites (except Rust mites), Pear psylla	0.75 to 1.5 pts.	28
	SPECIFIC DIRECTIONS: Apply 0.75 to 1.5 pints per 100 gallons of water. For concentrate (mist) application, apply 3 to 6 pints per acre in sufficient water to provide full coverage of foliage. For aerial application, apply 3 to 6 pints per acre in 5 to 10 gallons of water. Do not apply when trees or substantial numbers of weeds in the orchard are in bloom. Do not graze livestock in treated areas. Use the higher rate of application when insect pest population is high.		
Watermelons	Aphids, Leafhoppers, Leafminers	0.75 to 1.5 pts.	3

**NUT CROP**

Nut Crop	Pest Controlled	Rate per 100 gals. of water	PHI (Days)
Pecans	Aphids, Leafhoppers, Mites	1.0 pt.	21
	SPECIFIC DIRECTIONS: 1 pint per acre by ground equipment or by aerial equipment. If applied by air, a minimum of 5 gallons of finished spray must be used. Do not graze livestock in treated groves.		

**SEED CROPS**

Seed Crops	Pest Controlled	Rate per 100 gals. of water	PHI (Days)
Alfalfa	Aphids, Leafhoppers, Lygus bugs, Grasshoppers, reduction of Alfalfa weevil larvae	0.75 to 1.5 pts.	--
	SPECIFIC DIRECTIONS: Do not feed or graze livestock in treated crops, hay, threshings or stubble within 10 days of application. This pesticide is highly toxic to bees; do not apply if bees are visiting the areas to be treated when crop or weeds are in bloom.		
Grasses grown for seed (Idaho, Oregon and Washington only)	Aphids, Plant bugs, Thrips, Winter grain mites	0.75 to 1 pt.	--
	SPECIFIC DIRECTIONS: May be applied through ground or aerial application equipment. Apply in minimum of 2 gallons of water per acre. Do not graze or use seed or seed screenings for feed purposes.		
Do not use on Seed onions, Seed carrots, or Seed Bermuda grass. Use the higher rate of application when insect pest population is high.			

**VEGETABLE CROPS**

Vegetables	Pest Controlled	Rate* per Acre	PHI (Days)
Asparagus (Except Arizona and California)	Aphids, Asparagus beetles	1.5 pts.	180
	SPECIFIC DIRECTIONS: Apply after the last harvest at no less than 7 day intervals up to a maximum of 7.5 pints per acre per year.		
Beans (Dry, Green, Lima, Lupine, Snap)	Aphids, Leafhoppers, Leafminers, Lygus bugs, Mites, Bean leaf beetle, Mexican bean beetle, Grasshoppers	0.75 to 1.5 pts.	0
	SPECIFIC DIRECTIONS: May be applied up to the day of harvest. Do not feed treated vines. This product is highly toxic to bees. Do not apply if bees are visiting the areas to be treated when crops or weeds are in bloom.		
Broccoli, Cauliflower	Aphids	0.75 to 1.5 pts.	7
Brussels sprouts (CA Only)	Aphids	1.5 to 3 pts.	10
	SPECIFIC DIRECTIONS: Apply in a minimum of 50 gals. of water per acre using ground equipment. Do not graze livestock in treated fields. Do not apply by air. Do not exceed 6 applications per growing season.		
Celery	Carmine mite, Leaf miners, Two-spotted spider mite	1.5 pts.	7

(Continued)

**VEGETABLE CROPS (Con't)**

Vegetables	Pest Controlled	Rate* per Acre	PHI (Days)
Kale, Leaf lettuce, Turnip (Greens, Roots)	Aphids, Leafhoppers, Leafminers	0.75 pt.	14
	Endive, Mustard greens, Swiss chard	0.75 pt.	14
Garbanzo beans	Aphids, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mites	0.75 to 1.5 pts.	0
	SPECIFIC DIRECTIONS: May be applied up to day of harvest. Do not feed treated vines to livestock. This pesticide is highly toxic to bees; do not apply if bees are visiting the areas to be treated when crop or weeds are in bloom.		
Lentils	Aphids	0.5 to 1.5 pts.	14
	Lygus bugs	1.5 pts.	14
	SPECIFIC DIRECTIONS: Do not make more than 2 applications per season. Do not feed or graze treated plants. This pesticide is highly toxic to bees; do not apply if bees are visiting the areas to be treated when crop or weeds are in bloom.		
Lupine	Aphids, Leafhoppers, Leafminers, Lygus bugs	0.75 to 1.5 pts.	0
	SPECIFIC DIRECTIONS: Apply when insects first appear. Make only 2 applications per season. May be applied up to day of harvest. Do not feed or graze forage or hay. This pesticide is highly toxic to bees; do not apply if bees are visiting the areas to be treated when crop or weeds are in bloom.		
Peas	Aphids	0.5 to 1.5 pts.	0
	Lygus bugs	1.5 pts.	0
SPECIFIC DIRECTIONS: Peas may be harvested on day of application. Do not feed or graze hay within 21 days after last application when a stationary viner is used. Do not feed or graze when a mobile viner is used. Do not make more than 1 application per growing season. This product is highly toxic to bees. Do not apply if bees are visiting the area to be treated when crops or weeds are in bloom.			
Peppers	Aphids, Leafminers, Maggots	0.75 to 1 pt.	0
	SPECIFIC DIRECTIONS: May be applied up to the day of harvest.		
Potatoes	Aphids, Grasshoppers, Leafhoppers, Leafminers	0.75 to 1.5 pts.	0
	SPECIFIC DIRECTIONS: May be applied up to the day of harvest.		
Tomatoes	Aphids, Leafhoppers, Leafminers	0.75 to 1.5 pts.	7

\*Use the higher rate of application when insect pest population is high.

**STORAGE AND DISPOSAL**

**DO NOT STORE BELOW FREEZING TEMPERATURES.** Do not contaminate water, food or feed by storage and disposal.  
**PESTICIDE STORAGE:** Store in a cool, dry, well ventilated area. Avoid high temperatures.  
**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:** 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.

**WARRANTY—CONDITIONS OF SALE**

**OUR RECOMMENDATIONS 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. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. 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.