19713-231

06/30/2008



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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

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

JUN 3 0 2008

Dear Ms. Chan:

Subject: Labeling Amendment; Revisions According to Dimethoate IRED Drexel Dimethoate 4EC EPA Registration No. 19713-231 Submission Date: June 2, 2008

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. Further label amendments may be required once the product specific data have been reviewed. A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment. If you have any questions regarding this label, please contact me at (703) 306-0415.

Sincerely yours,

Kable Bo Davis Entomologist Insecticide-Rodenticide Branch Registration Division (7505P)

Enclosure

# ACCEPTED

# JUN 3 0 2008

Preder the Federal Insociation, Fungleiche, and Rocksuthiche Ach, as amended, for the positivities registered under FRA Reg. Ro. 19713-23 \

# Dimethoate 4EC Systemic Insecticide – Miticide

Drexe

#### ACTIVE INGREDIENT:

Dimethoate*	44.8%
OTHER INGREDIENTS:	55.2%
ΤΟΤΔΙ	100.0%

\*This product contains 4 pounds of active ingredient per gallon.

# 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. 19713-231

EPA Est. No. 19713-GA-001

Net Content: \_\_\_\_

#### FIRST AID ORGANOPHOSPHATE

#### IF SWALLOWED:

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 do so by a poison control center or doctor.

• Do not give anything by mouth to an unconscious or convulsing person. IF IN EYES:

#### IF IN EYES:

- 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.

IF ON SKIN OR CLOTHING:

#### 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.

#### IF INHALED:

· Move person to fresh air.

- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- · Call a poison control center or doctor for further 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.

NOTE TO PHYSICIAN: Atropine is antidotal. Pralidoxime chloride may be effective as an adjunct to atropine. This product may cause cholinesterase inhibition. Treatment should be directed at the control of symptoms and clinical condition. Dimethoate is an organophosphate insecticide/miticide.

## **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. Do not contaminate food and feed products. PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are Barrier laminate, Butyl rubber or Viton. If you want more options, follow the instructions for Category B on an EPA chemical-resistance category selection chart. (Continued)

# PRECAUTIONARY STATEMENTS (Cont.)

Mixers, loaders, applicators, flaggers, and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, a NIOSH-approved dust/mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter, and chemical-resistant apron when mixing, loading, cleaning up spills, or equipment.

See Engineering Controls for additional requirements and exceptions.

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.

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

#### **ENGINEERING CONTROLS**

Mixers and loaders supporting aerial application to alfalfa, cotton, soybeans, corn, safflower, sorghum, and wheat, must use a closed system that meets the requirements listed in the Worker Protections Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)]. The system must be capable of removing the pesticide from the shipping container and transferring it into mixing tanks and/or application equipment. At any disconnect point, the system must be equipped with a dry disconnect or dry couple shut-off device that is warranted by the manufacturer to minimize drippage to no more than 2 ml per disconnect.

In addition, mixers and loaders must:

- wear the personal protective equipment required on this labeling for mixers/loader, except that no respirator is required,
- wear protective eyewear, if the system operates under pressure, and
- be provided and have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown, chemical-resistant footwear and a respirator of the type specified in the PPE section of this labeling.

Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)]. Pilots need to wear the PPE required in this labeling for applicators, but must wear at least a long-sleeve shirt, long pants, shoes, and socks.

When handlers used closed systems or enclosed cabs in a manner that meets the requirements listed in the WPS for agricultural pesticides (40 CFR 170.240 (d)(4-5), 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/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

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.

Dimethoate is known to leach through soil into ground water under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product may contaminate water through drift of spray in wind.

This product has a high potential for runoff for several days after application. 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 rainfail-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

A vegetative filter strip constructed and maintained in accordance with the 2000 Natural Resources Conservation Service publication "Conservation Buffers to Reduce Pesticide Losses" (http://www.nrcs.usda.gov/feature/buffers/) will significantly reduce the potential for contamination of water from rainfall-runoff.

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 or weeds 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. 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, 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), restricted entry interval and notification of workers. 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 restricted entry interval.

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 worn over long-sleeve shirt and long pants, chemical-resistant gloves made of any waterproof material, chemical-resistant footwear plus socks, and chemical-resistant headgear for overhead exposure.

**Double Notification:** Notify workers of the application by warning them orally and by posting warning signs at entrances to treated area.

BEFORE USING, READ WARNING STATEMENTS ON CONTAINER LABEL.

#### APPLICATION RESTRICTIONS

This product is for use in commercial settings only. Use in residential settings is prohibited.

DO NOT use on crops grown in greenhouses.

This product has a systemic and contact activity against a broad spectrum of piercing, sucking and chewing insects; however, it may not control certain organophosphate-resistant species.

TANK MIXING: This product is compatible in spray tank mixes with most insecticides, miticides and fungicides, provided they are not alkaline in reaction. Field experience indicates that this product has been satisfactorily mixed with captan, carbaryl, diazinon, dodine, azinphos methyl, dicofol, malathion, parathion, pyrethroids, thiram and zineb. Because uniform dispersibility and sprayability may be influenced by pesticide combinations used, it is recommended that compatibility be determined before adding pesticides to the spray tank.

In a pint or quart jar, mix products and water proportionate to the intended tank mix. If there is any separation, we recommend that the combination not be used. The addition of a non-ionic, general purpose spreader-activator will usually eliminate any incompatibility noted.

For proper mixing, spray tank should be at least three-fourths filled with water before adding this product. Add tank mixing products in the following order: watersoluble bags, wettable powders, dry flowables, liquid flowables, emulsifiable concentrates, and other soluble materials such as fertilizers. When tank mixing, allow water-soluble bags and soluble fertilizers to dissolve first before adding this product. Mechanical agitation or recirculation through pump bypass to tank is usually sufficient for maintaining a good dispersion. This product should not be tank-mixed with other pesticides, surfactants or fertilizers, unless prior use has shown the combination non-injurious under your conditions of use. Follow precautionary statements and directions for all tank-mix products. Spray tank mixes of this product with alkaline insecticides, fungicides, miticides and fertilizers should be applied promptly; however, alkaline materials such as Bordeaux mixture and lime should not be used. Tank mixing must be done in accordance with the more (most) restrictive of label limitations and use precautions for all products to be mixed. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibiting such mixing.

PHYTOTOXICITY STATEMENT: As is common with most emulsifiable concentrate formulations, adverse effects such as spotting or discoloration of the fruit or foliage can occur. Some conditions known to contribute to phytotoxicity include, but are not limited to: high temperatures, poor spray drying conditions, excessive spray deposit or runoff, certain spray mixtures, stage of crop development or tank mixes with other pesticides.

**RESISTANCE MANAGEMENT:** Based on historical use patterns in some areas, certain pest species listed on this label may have developed resistance to this product. Consult your local agricultural advisor, state cooperative extension service or regional company representative for recommendations.

**ODOR:** Dimethoate formulations may produce a distinctive odor during the spray operation, but under normal conditions this odor does not persist.

#### METHODS OF APPLICATION

This product is intended for use in conventional hydraulic sprayers, ground applicators or aerial sprayers. Do not apply when weather conditions favor drift of spray from treated areas. Repeat applications as necessary unless otherwise specified. Consult your State Experiment Station or State Extension Service for proper timing of application.

The use of a drift retardant agent cleared for food use is recommended when applying this product by air or ground.

<u>Dilute Application</u> – Ground Application For Field and Vegetable Crops: Apply specified rate in 20 to 60 gallons of water per acre unless otherwise stated.

Concentrate Application – Ground Application: Apply specified rate in not less than 5 gallons of water per acre unless otherwise stated.

<u>Orchard Application</u> – Apply equivalent per acre rates in 20 to 100 gallons of water per acre unless otherwise stated. Special concentrate equipment is necessary for these uses.

High Pressure Handwand Equipment – When applications are made by high pressure handwand equipment, the maximum application rate for all crops and use patterns is 0.0025 pound active ingredient (0.08 fl. oz. of this product) per gallon.

<u>Air Application</u> – Unless otherwise stated, apply at least one gallon of finished spray per acre; apply at least 5 gallons of finished spray per acre in CA. Orchard rates use equivalent per acre rate in not less than 10 gallons of water per acre. Do not use air application on Pecans.

Automatic flagging devices should be used whenever feasible.

#### REQUIREMENTS FOR REDUCING SPRAY DRIFT

Do not apply under circumstances where possible drift to unprotected persons or to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption can occur.

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 medium or coarser spray nozzles according to ASAE 572 definition for standard nozzles or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles.

- 2. Make aerial or ground applications when the wind velocity favors on-target product deposition. Apply only when the wind speed is less than or equal to 10 mph. For all non-aerial applications, wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.
- 3. 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.
- 4. Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures.
- All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.
- 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
- 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.
- 8. For aerial applications, release spray at the lowest height consistent with efficacy and flight safety. If the application includes an aquatic buffer zone, do not release spray at a height greater than 10 feet above the ground or crop canopy.
- 9. For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of the wingspan or 90% of rotor blade diameter. Use upwind swath displacement.

#### CHEMIGATION

Apply this product only through 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, lack of effectiveness or illegal pesticide residues in the crop 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 system) used for pesticide application to a 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.

Mix, in a clean supply tank, the recommended amount of this product and any tank mixing products per acreage to be covered and needed quantity of water. On all crops, use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, pest problem and state of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues. Meter this product into the irrigation water uniformly during the period of operation. Do not overlap application. Follow recommended label rates, application timing, and other directions and use precautions for crop being treated. Continuous mild agitation of pesticide mixture may be needed to assure uniform application, particularly if the supply tank requires a number of hours to empty.

#### CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: Drexel Chemical Company does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

Public water system 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 pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of the fluid back toward the injection pump. The pesticide injection pipeline must 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. 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. 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. Do not apply when wind speed favors drift beyond the area intended for treatment

#### SPRINKLER CHEMIGATION (FOLIAR SPRAY USES)

The system 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. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. 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. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. 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. 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. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. Do not apply when wind speed favors drift beyond the area intended for treatment.

# FLOOD (BASIN), FURROW AND BORDER CHEMIGATION (SOIL DRENCH USE)

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 backflow if water flow stops. Allow sufficient time for pesticide to be flushed through all lines before turning off irrigation water. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements: a) The system 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. b) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. c) The pesticide injection pipeline must also contain a functional, normally closed, solenoidoperated 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. d) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. e) 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. f) 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.

## NUT CROPS

Сгор	Pest Controlled	Rate per Acre	PHI (Days)
Pecans (REI = 48 hours)	Aphids, Mites, Leafhoppers	0.66 pt.	21
	rs) SPECIFIC DIRECTIONS: Do not use air application. Do not graze livestock in treated groves.		
USE RESTRICTIO	NS: Do not apply more than 0.3	3 lb. a.i. (0.66	pt. of this

product) per acre per application. Do not apply more than 0.33 lb. a.i. (0.66 pt. of this product) per acre per year.

#### FRUIT CROPS

Сгор	Pest Controlled	Rate	PHI (Days)
Cherries (Preharvest) – ID, MT, OR, UT and WA only	Aphids, Cherry fruit flies, Mites	Dilute Application: 0.5 to 1 pt. in a minimum of 100 gals. of water. Concentrate Application:	21
(REI = 10 days)*		2 pts. in a minimum of 50 gallons of water per acre.	
	rate when insect Sweet and Tart tions should be to avoid fruit ma (such as Ranier days of adult fly tion should be n fruits are small	CTIONS: Use the higher ap to pest population is high. On cherries, use 2 pts. per acre. taken when using concentra arking and injury on sensitive species). Make an application emergence in the area. This nade in late May or early Jun in size. Do not apply when tra-	mature Precau- ted sprays varieties on within 7 applica- te when ees or sub-
		s of weeds in the treatment a raze livestock in treated orch	
this product) per ac (2.66 pts, of this pro *The REI is 10 days	NS: Do not apply re per application oduct) per acre per s, however, the R	more than 1.33 lbs. a.i. (2.60 1. Do not apply more than 1.3	6 pts. of 33 lbs. a.i. outdoor
Cherries (Postharvest) – ID, MT, OR, UT and WA only (REI = 10 days)*	Aphids, Cherry fruit flies, Mites	Dilute Application: 0.5 to 1 pt. in a minimum of 100 gals. of water. Concentrate Application: 2 pts. in a minimum of 50 gallons of water per acre.	—
	minimum of 7 d where a decisio fruit quality, a lig tions. For best r hardens or drop tial numbers of bloom. Do not g	CTIONS: Make an applicat ays after final harvest or app in is made not to harvest due pht crop or unfavorable mark results, make an application bs. Do not apply when trees of weeds in the treatment area graze livestock in treated orcl cation rate when insect pest	ly in cases to poor et condi- when fruit or substan- are in nards. Use
this product) per ac (2.66 pts. of this pro "The REI is 10 days	re per application oduct) per acre p s, however, the R	more than 1.33 lbs. a.i. (2.6 n. Do not apply more than 1.3 er year. El is increased to 14 days in nfall is less than 25 inches pe	33 lbs. a.i. outdoor
Grapefruit, Kumquats, Lemons, Limes, Oranges, Pummelos, Tangelos, Tangerines – Except FL (REI = 10 days)*	Aphids, Mites (except Rust), Thrips, Whiteflies	Ground Application: 0.5 to 1 pt. in 50 to 100 gals. of water for dilute application. Apply as a thorough distribution cov- erage spray. Concentrate Application (Mist): Apply 2 pts. per acre in sufficient water to provide full coverage of foliage.	15 (Contlinued)

DIMETHOATE 4EC Page 3 of 9

## FRUIT CROPS

Crop	Pest Controlled	Rate	PHI (Days)
Grapefruit, Kumquats, Lemons, Limes, Oranges, Pummelos,	rate if infestatic Do not apply w	ECTIONS: Use the higher ap n is heavy or if orchard folia, hen trees or substantial num rchard are in bloom. Do not g orchard.	ge is dense. bers of
Tangelos, Tangerines – except FL	Scales (except Black or	Ground Application: 0.5 to 1.5 pts. in 50 to 100 gals. for dilute application.	15
(REI = 10 days)* Cont.	Snow)	Apply as a thorough distri- bution coverage spray. Concentrate Application	
		(Mist): 2 pts. per acre in sufficient water to provide full coverage of foliage.	
	rate when inse- liage is dense.	ECTIONS: Use the higher a ct pest population is high or i Do not apply when trees or s eds in the orchard are in blo	f orchard fo substantial
	graze livestock NS: Do not appl	in treated orchards. y more than 1 lb. a.i. (2 pts. o	of this prod-
product) per acre p seedlings. Do not a	er year. Do not a apply to Citrus in	t apply more than 1 lb. (2 pts apply by air. Do not apply to 1 Florida. REI is increased to 14 days i	Citrus
		infall is less than 25 inches p	
Citrus, Grapefruit,	Thrips	See "SPECIFIC DIRECTIONS"	15
Lemons, Oranges, Tangerines – AZ Only	SPECIFIC DIRECTIONS: Use specified dosages of this product in the amount of water necessary to achieve adequate coverage of foliage. The type of		
(REI = 10 days)*	equipment used will determine the concentration re- quired. Ground Application: Apply up to 2 lbs. of active ingre-		
	dient (4 pts. of this product) 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 or open bloom un	chard from when that orchar til such time as there has be on the north side of the trees	d is 10% en at least
	tions of dimeth time between 1	oate shall be limited to that p t hour after sunset to 3 hours any one of the following cond	period of s before
	vail: 1) Before treated has op	the onset of petal fall, the order en bloom present and these than 10% of the total anticip	chard to be open bloor
	in the orchard. are less than 2	<ol> <li>2) After the initiation of petal 5% of open bloom remaining ated. 3) It is between the cal</li> </ol>	fall, there g in the or-
	of February 15 All applications	th and May 1st. of dimethoate on Citrus mu m 1080, written either by a p	st be docu-
	advisor, farm owner or farm manager, as is normally re- quired for custom applications of pesticides, except that private applicators may omit the "Pesticide Application		
	of the orchard application sha	n. The description of the statute to be treated as it was at the all be indicated in the section becial Instructions". Both prive	time of the for "Label
	tom applicators ment's Phoenis Form 1080, do	s shall mail to the Agriculture x office, the original of each o ne in accordance with this la all be postmarked not later th	Depart- completed bel. Each
	following the w except when h	eek in which the application olidays intervene.	
USE RESTRICTIO		pply by air. REI is increased to 14 days i	n outdoor.

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# FRUIT CROPS

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Сгор	Pest Controlled	Rate	PHI (Days)
Citrus – AZ & CA: Non-bearing and Nursery stock (REI = 10 days)*	Aphids, Thrips	Foliar Spray: 1 pt. per 100 gals. of water. Apply as necessary. May be ap- plied in the year trees begin to bear fruit. Soil Drench (Trees 1 to 3 years old): 1 pt. per	—
		acre. Apply in the furrow or basin around the base of the tree. Apply when insect injury to new growth appears. Do not apply to trees that will	
	substantial num bloom. Do not g	bear fruit within 1 year. ECTIONS: Do not apply when bers of weeds in the orchard graze livestock in treated orch	are in nards.
uct) per acre per a product) per acre p *The REI is 10 day	pplication. Do not per year. DO NOT vs, however, the F	y more than 1 lb. a.i. (2 pts. o t apply more than 1 lb. (2 pts 7 apply by air. REI is increased to 14 days ir infall is less than 25 inches p	of this
Pears (REI = 10 days)*	Aphids, Leafhoppers, Mites (except Rust), Pear psyllas	Ground Application: 0.5 to 1 pt. for dilute applica- tion. Apply as a thorough distribution coverage spray. Concentrate Application (Mist): 1 to 2 pts. per acre in sufficient water to provide full coverage of foliage. Air Application: 1 to 2 pts. per acre in 5 to 10 gals. of water.	28
	pest population not apply when	ECTIONS: Use the higher rat is high or if orchard foliage is trees or substantial numbers are in bloom. Do not graze liv s.	s dense. Do s of weeds
uct) per acre per a product) per acre p *The REI is 10 day	pplication. Do no per year. /s, however, the f	y more than 1 lb. a.i. (2 pts. c t apply more than 1 lb. a.i. (2 REI is increased to 14 days ir infall is less than 25 inches p	pts. of this 1 outdoor
Pears – Non-bearing (REI = 10 days)*	Aphids, Leafhoppers, Mites (except Rust), Pear psyllas	0.5 to 1 pt. per 100 gals. of water	—
	rate when pest stock in treated	ECTIONS: Use the higher ap population is high. Do not gra orchards. Do not apply when thers of weeds in the orchard	aze live- n trees or
are in bloom. USE RESTRICTIONS: Do not apply more than 1 lb. a.i. (2 pts. of this prod- uct) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year. *The REI is 10 days, however, the REI is increased to 14 days in outdoor areas where the average annual rainfall is less than 25 inches per year.			

## VEGETABLE CROPS

Where a range of application rates is recommended, apply the higher rate when est population is high.

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	Pest Controlled	Rate per Acre	PHI (Days)
oaragus – cept AZ & CA El = 48 hours)	Aphids, Asparagus beetles SPECIFIC DIRECTIONS: Apply vest at no less than 14-day inter		
	mum of 2 pts. per acre per year. than 180 days before harvest.		
	: Do not apply more than 0.5 lba cation. Do not apply more than 1 year.		
eans including esh, Lima, Snap id Dry beans xcludes Cowpeas)	Aphids, Bean leaf beetles, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mex- ican bean beetles, Mites	0.5 to 1 pt.	0
REI = 48 hours)	SPECIFIC DIRECTIONS: Do n vines. Do not apply if bees are v	isiting the	area to
SE RESTRICTIONS	be treated when crops or weeds Do not apply more than 0.5 lb. a		
ct) per acre per appli	cation. Do not apply more than 1 year. Retreatment interval is 14 d	lb. a.i. (2 p	
roccoli, Cauliflower REI = 48 hours)*	Aphids	0.5 to 1 pt.	7
t) per acre per appli	Do not apply more than 0.5 lb. a cation. Do not apply more than 1.	5 lbs. a.i. (	
	per year. Retreatment interval is however, the REI is increased to		outdoor
reas where the avera	age annual rainfall is less than 25 Aphids	inches per 1 pt.	year. 10
A Only	SPECIFIC DIRECTIONS: Apply	<u> </u>	· · · · · · · · · · · · · · · · · · ·
<pre>{EI = 48 hours)*</pre>	gals of water per acre by ground day intervals. Do not graze lives fields. Do not apply by air.		
he REI is 48 hours, eas where the avera elery	per year. Retreatment interval is however, the REI is increased to age annual rainfall is less than 25 Carmine mites, Leafminers,	72 hours in	
	Twospotted spider mites Do not apply more than 0.5 lb. a ication. Do not apply more than 1.	5 lbs. a.i. (	
	ner vear Retreatment interval is		
nis product) per acre ndive (Escarole), eaf lettuce, Swiss mard	per year. Retreatment interval is Aphids, Leafhoppers, Leafminers	0.5 pt.	14
nis product) per acre indive (Escarole), eaf lettuce, Swiss hard REI = 48 hours) <b>ISE RESTRICTIONS</b> roduct) per acre per	Aphids, Leafhoppers,	0.5 pt. a.i. (0.5 pt an 0.75 lb.	, of this a.i. (1.5
is product) per acre ndive (Escarole), eaf lettuce, Swiss nard REI = 48 hours) <b>SE RESTRICTIONS</b> roduct) per acre per ls. of this product) per arbanzo beans	Aphids, Leafhoppers, Leafminers Do not apply more than 0.25 ib. application. Do not apply more that acre per year. Retreatment inte Aphids, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mites	0.5 pt. a.i. (0.5 pt an 0.75 lb. rval is 7 da 0.5 to 1 pt.	. of this a.i. (1.5 ys.
is product) per acre ndive (Escarole), aaf lettuce, Swiss hard EEI = 48 hours) SE RESTRICTIONS oduct) per acre per s. of this product) per arbanzo beans REI = 48 hours)	Aphids, Leafhoppers, Leafminers Do not apply more than 0.25 lb. application. Do not apply more than ar acre per year. Retreatment inter Aphids, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mites SPECIFIC DIRECTIONS: Do n vines. Do not apply if bees are to be treated when crops or weeds	0.5 pt. a.i. (0.5 pt an 0.75 lb. rval is 7 da 0.5 to 1 pt. ot feed trea <i>r</i> isiting the s are in blo	. of this a.i. (1.5 ys. 0 ated area to om.
is product) per acre ndive (Escarole), aaf lettuce, Swiss aard EEI = 48 hours) SE RESTRICTIONS roduct) per acre per arbanzo beans REI = 48 hours) SE RESTRICTIONS ct) per acre per appl roduct) per acre per	Aphids, Leafhoppers, Leafminers Do not apply more than 0.25 lb. application. Do not apply more the aracre per year. Retreatment inte Aphids, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mites SPECIFIC DIRECTIONS: Do no vines. Do not apply if bees are v be treated when crops or weeds Do not apply more than 0.5 lb. a ication. Do not apply more than 1 year. Retreatment interval is 14 d	0.5 pt. a.i. (0.5 pt an 0.75 lb. rval is 7 da 0.5 to 1 pt. ot feed treatisiting the s are in blo a.i. (1 pt. of lb. a.i. (2 p ays.	. of this a.i. (1.5 ys. 0 ated area to om. this prod. ts. of this
his product) per acre indive (Escarole), eaf lettuce, Swiss hard REI = 48 hours) ISE RESTRICTIONS roduct) per acre per ts. of this product) pe Sarbanzo beans REI = 48 hours)	Aphids, Leafhoppers, Leafminers Do not apply more than 0.25 ib. application. Do not apply more than ar acre per year. Retreatment inter Aphids, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mites SPECIFIC DIRECTIONS: Do not vines. Do not apply if bees are to be treated when crops or weeds Do not apply more than 0.5 lb. a ication. Do not apply more than 1 year. Retreatment interval is 14 d Aphids, Leafhoppers, Leafminers SPECIFIC DIRECTIONS: Apply gals of water per acre by ground	0.5 pt. a.i. (0.5 pt an 0.75 lb. rval is 7 da 0.5 to 1 pt. ot feed treating the s are in blo a.i. (1 pt. of lb. a.i. (2 p ays. 0.5 pt. in a minin d equipment	. of this a.i. (1.5 ys. 0 ated area to om. this prod ts. of this 14 14 num of 50 nt at 7-
is product) per acre ndive (Escarole), eaf lettuce, Swiss hard EEI = 48 hours) <b>SE RESTRICTIONS</b> roduct) per acre per ts. of this product) per arbanzo beans REI = 48 hours) <b>SE RESTRICTIONS</b> ct) per acre per appl roduct) per acre per ale, Mustard reens REI = 48 hours)	Aphids, Leafhoppers, Leafminers Do not apply more than 0.25 ib. application. Do not apply more than ar acre per year. Retreatment inter Aphids, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mites SPECIFIC DIRECTIONS: Do not vines. Do not apply if bees are ub be treated when crops or weeds Do not apply more than 0.5 lb. a ication. Do not apply more than 1 year. Retreatment interval is 14 d Aphids, Leafhoppers, Leafminers SPECIFIC DIRECTIONS: Apply gals of water per acre by grounday intervals. Do not graze lives fields. Do not apply by air.	0.5 pt. a.i. (0.5 pt an 0.75 lb. rval is 7 da 0.5 to 1 pt. ot feed treatisting the s are in blo a.i. (1 pt. of lb. a.i. (2 p ays. 0.5 pt. v in a minim d equipments stock in treatistical	. of this a.i. (1.5 ys. 0 ated area to om. this prod ts. of this 14 14 num of 50 nt at 7- ated
is product) per acre ndive (Escarole), aaf lettuce, Swiss vard EEI = 48 hours) SE RESTRICTIONS oduct) per acre per s. of this product) per arbanzo beans REI = 48 hours) SE RESTRICTIONS coluct) per acre per ale, Mustard eens REI = 48 hours) SE RESTRICTIONS roduct) per acre per	Aphids, Leafhoppers, Leafminers Do not apply more than 0.25 ib. application. Do not apply more than ar acre per year. Retreatment inter Aphids, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mites SPECIFIC DIRECTIONS: Do not vines. Do not apply if bees are to be treated when crops or weeds Do not apply more than 0.5 lb. ication. Do not apply more than 1 year. Retreatment interval is 14 d Aphids, Leafhoppers, Leafminers SPECIFIC DIRECTIONS: Apply gals of water per acre by ground day intervals. Do not apply by air. Do not apply more than 0.25 lb. application. Do not apply more than 0.25 lb. application. Do not apply more than 0.25 lb.	0.5 pt. a.i. (0.5 pt. a.i. (0.5 pt. rval is 7 da 0.5 to 1 pt. ot feed treating the s are in blo a.i. (1 pt. ot ib. a.i. (2 p ays. 0.5 pt. v in a minim d equipments stock in treating the stock in the a.i. (0.5 pt. a.i. (0.5 pt. a.i. (0.5 pt.) a.i. (0.5	this procession of this a.i. (1.5 ys. 0 atted area to om. this procession of this procession of the procesion of the procession of the procesion of the proc

# **VEGETABLE CROPS**

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		Rate		
Crop	Pest Controlled	per	PHI (Days)	
	Controlled	Acre	(Days)	
Lentils (REI = 48 hours)	Aphids	0.33 to 1 pt.	14	
	SPECIFIC DIRECTIONS: Do not feed or graze			
	treated plants. Do not apply if bees are visiting the areas to be treated when crops or weeds are in			
	bloom.	or weeds a	rein	
	Lygus bugs	1 pt.	14	
	SPECIFIC DIRECTIONS: Do no			
	treated plants. Do not apply if be			
	areas to be treated when crops	or weeds a	re in	
NOT DESTRUCTION	bloom.	a i (1 at a	f this prod	
	S: Do not apply more than 0.5 lb. lication. Do not apply more than 1			
	year. Retreatment interval is 7 da			
Lentils - WA Only	Aphids, Lygus bugs	0.25 to	14	
(REI = 48 hours)		1 pt.	·	
	SPECIFIC DIRECTIONS: Apply			
	appear. Repeat as needed. Do or treated vines.	not feed or	graze hay	
	Note: CHEMIGATION – Do not	apply throu	iqh anv	
	type of irrigation system.		J	
	S: Do not apply more than 0.5 lb.			
	lication. Do not apply more than 1		ots. of this	
	year. Retreatment interval is 7 da			
Melons – Except	Aphids, Leafhoppers,	1 pt.	3	
Watermelons (REI = 48 hours)	Leafminers, Maggots, Thrips	1		
`	S: Do not apply more than 0.5 lb.	ai (1 ot o	f this prod-	
	lication. Do not apply more than 1			
	year. Retreatment interval is 7 da			
Peas	Aphids	0.3 pt.	0	
(REI = 48 hours)	SPECIFIC DIRECTIONS: Do no	ot feed or g	raze hay	
,	within 21 days after last applica			
	viner is used. Do not feed or gra viner is used. Do not make more			
	per growing season. Do not app	•	•	
	the areas to be treated when cr			
	bloom. Do not apply more than			
	this product) per acre per applic			
	more than 0.16 lb. a.i. (0.3 pt. o acre per year. Not for use on Fig		ci) per	
	For Dry Peas in ID, OR, and W			
	CHEMIGATION - Do not apply		y type of	
	irrigation system.		فحد الأسيقاء	
	This product is highly toxic to be treatment or residues on bloom			
	Do not apply this product to blo			
	peas. Apply as a prebloom or p			
· ·	Lygus bugs	0.3 pt.	0	
	SPECIFIC DIRECTIONS: Do no			
	within 21 days after last applica			
	viner is used. Do not feed or gra viner is used. Do not make mor			
	per growing season. Do not app			
	the areas to be treated when cr			
	bloom. Do not apply more than	0.16 lb. a.i	(0.3 pt. of	
	this product) per acre per applic			
	more than 0.16 lb. a.i. (0.3 pt. o acre per year. Not for use on Fi		ict) per	
Succulent Peas -	Aphids	0.33 pt.	0	
ID, OR and WA	eonide.	0.5 to	0	
only		0.66 pt.		
(REI = 48 hours)	SPECIFIC DIRECTIONS: Apply		ium spray	
	volume of not less than 5 gals.			
	ground or air application. Do no	t exceed 0	.5 lb. a.i. (1	
1	pt. of this product) per acre per			
	7 days between applications. D			
1	on cover crops in treated areas		(Continued)	

# VEGETABLE CROPS

Сгор	Pest Controlled	Rate per Acre	PHI (Days)
Succulent Peas (with pod) – CA Only (REI = 48 hours)	Note: CHEMIGATION – Do not type of irrigation system. This product is highly toxic to be rect treatment or residues on blo weeds. Do not apply this produc trian Winter peas. Apply as a pro bloom spray only. Not for use or Aphids, Leafminers, Thrips SPECIFIC DIRECTIONS: Multip be made at 14-day intervals. Do a.i. (1 pt. of this product) per acr	apply throu es expose coming cro t to bloomi ebloom or p Field peas 0.33 pt. ble application of exceed	d to di- ps or ng Aus- post- s. 0 ions may d 0.5 lb.
	not make more than 3 application son. Not for use on Field peas.	ins per grov	wing sea-
Peppers (REI = 48 hours)	Aphids, Leafminers, Maggots	0.5 to 0.66 pt_	0
product) per acre per a	Do not apply more than 0.33 lb. application. Do not apply more that r acre per year. Retreatment inter	an 1.65 lbs.	a.i. (3.3
Potatoes (REI = 48 hours)	Aphids, Grasshopper, Leafhoppers, Leafminers	0.5 to 1 pt.	0
uct) per acre per appli	: Do not apply more than 0.5 lb. a cation. Do not apply more than 1 year. Retreatment interval is 7 day	lb. a.i. (2 pl	
Tomatoes (REI = 48 hours)	Aphids, Leafhoppers, Leafminers	0.5 to 1 pt.	7
uct) per acre per appli	: Do not apply more than 0.5 lb. a cation. Do not apply more than 1 /ear. Retreatment interval is 6 day	lb. a.i. (2 pi	
Turnips – Greens, Roots (REI = 48 hours)	Aphids, Leafhoppers, Leafminers	0.5 pt.	14
USE RESTRICTIONS: Do not apply more than 0.25 lb. a.i. (0.5 pt. of this product per acre per application. Do not apply more than 1.75 lbs. a.i. (3.5 pts. of this product) per acre per year. Retreatment interval is 72 hours.			
Watermelons (REI = 48 hours)	Aphids, Leafhoppers, Leafminers, Maggots, Thrips	0.5 to 1 pt.	3
USE RESTRICTIONS: Do not apply more than 0.5 lb. a.i. (1 pt. of this prod- uct) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year. Retreatment interval is 7 days.			

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#### FIELD CROPS

Where a range of application rates is recommended, apply the higher rate when pest population is high.

Сгор	Pest Controlled	Rate per Acre	PHI (Days)
Alfalfa, Sainfoin (REI = 48 hours)	Aphids, Grasshoppers, Leafhoppers, Plant bugs (including Lygus), reduction of	0.5 to 1 pt.	10
	Alfalfa weevil larvae		
	SPECIFIC DIRECTIONS: Do not days of harvest or pasturing. Ma tion per crop cycle or cutting. Ef ting to which applied. Do not ap visiting the area to be treated wi are in bloom.	ake only 1 a fective only ply if bees a hen crops o	on cut- are or weeds
	: Do not apply more than 0.5 lb. a cation. Do not apply more than 0. e or cutting.		
Cotton – AZ and CA Only (REI = 48 hours)	Black fleahoppers, Leafhop- pers, Plant bugs (including Lygus), Thrips	0.5 to 1 pt.	14
- -	SPECIFIC DIRECTIONS: Do no age or graze livestock in treated		ted for-
uct) per acre per appli	: Do not apply more than 0.5 lb. a cation. Do not apply more than 1 season. Retreatment interval is 1	lb. a.i. (2 p	
Cotton – Except AZ and CA	Aphids, Fleahoppers, Mites, Plant bugs, Thrips	0.25 to 1 pt.	14
(REI = 48 hours) SPECIFIC DIRECTIONS: When water is used for dilution, repeat applications should not be made at intervals closer than 14 days. When refined veg- etable oil is used for dilution, repeat applications should not be made at intervals closer than 40 days. Do not feed treated forage or graze livestock on treated fields. (Continued)			

# FIELD CROPS

Crop	Deet	Rate	рні
Crop	Pest Controlled	per Acre	(Days)
Cotton - Except AZ	Lygus bugs	0.5 pt.	14
	SPECIFIC DIRECTIONS: When lution, repeat applications shoul tervals closer than 14 days. Whe oil is used for dilution, PHI is 40 treated forage or graze livestock S: Do not apply more than 0.5 lb. lication. Do not apply more than	d not be ma en refined v days. Do n on treated a.i. (1 pt. o	ade at in- regetable ot feed fields. f this prod-
product) per acre per	r season. Retreatment interval is	14 days.	
Corn – Field, Pop (REI = 48 hours)	Aphids, Banks grass mites (except Trans Pecos area of TX), Bean beetles, Corn root- worms (adults), Fleahoppers,	0.66 to 1 pt.	28 (Grain) 14
	Thrips, Two-spotted spider mites SPECIFIC DIRECTIONS: Apply feed or graze within 14 days of I not apply to Corn during the poll bees are visiting the area. Grou	ast applica len-shed pe	tion. Do
	Apply above rate in 20 to 40 gal Air Application: Apply above ra of water per acre.		
	Grasshoppers	1 pt.	28 (Grain)
			14 (Forage)
	SPECIFIC DIRECTIONS: Grou Apply above rates in 20 to 40 gr Air Application: Apply above ra of water. Do not apply to Corn d period if bees are visiting the ar- graze within 14 days of last app	als. of wate ate in 1 or n uring the p ea. Do not i	r per acre. nore gais. ollen-shed
perform detasseling	r year. kers are prohibited from entering tasks for 4 days in nonarid areas the average annual rainfall is les	and for 15	days in hches per
Safflower – AZ and CA Only (REI = 48 hours)	Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips S: Do not apply more than 0.5 lb.	0.5 to 1 pt.	14
uct) per acre per app	plication. Do not apply more than		
product) per acre pe Sorghum (Milo)	year.		pr. or this
	Aphids (Green bugs)	0.5 to 1 pt.	28
(REI = 48 hours)	Aphids (Green bugs) SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 g; Air Application: Apply above ra lons of water per acre. Do not fe within 28 days of last application the pollen-shed period.	1 pt. nd Applica als. of wate ates in 1 or eed or graz	28 ation: r per acre. more gal- e Milo
	SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 g; Air Application: Apply above ra Ions of water per acre. Do not fe within 28 days of last application	1 pt. nd Applica als. of wate ates in 1 or eed or graz	28 ation: r per acre. more gal- e Milo
	SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 gr Air Application: Apply above ra- lons of water per acre. Do not fe within 28 days of last application the pollen-shed period. Grasshoppers, Mites (includ- ing Banks grass mites (ex- cluding Trans Pecos area of	1 pt. nd Applica als. of wate als. of wate	28 ation: r per acre. more gal- e Milo pply during 28 28 ation: r per acre. more gal- e Milo
	SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 g; Air Application: Apply above ra lons of water per acre. Do not fe within 28 days of last application the pollen-shed period. Grasshoppers, Mites (includ- ing Banks grass mites (ex- cluding Trans Pecos area of TX)), Twospotted spider mites SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 g; Air Application: Apply above ra lons of water per acre. Do not fe within 28 days of last application the pollen-shed period. Sorghum midge	1 pt. nd Applica als. of wate ates in 1 or sed or graz: n. Do not al 1 pt. nd Applica als. of wate ates in 1 or bed or graz n. Do not a 0.25 to 0.5 pt.	28 ation: r per acre. more gal- e Milo pply during 28 ation: rr per acre. more gal- e Milo pply during 28
	SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 g; Air Application: Apply above ra lons of water per acre. Do not fe within 28 days of last application the pollen-shed period. Grasshoppers, Mites (includ- ing Banks grass mites (ex- cluding Trans Pecos area of TX)), Twospotted spider mites SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 g; Air Application: Apply above ra lons of water per acre. Do not fe within 28 days of last application the pollen-shed period. Sorghum midge SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 g; Air Application: Apply above ra lons of water per acre. Do not fe within 28 days of last applicatio	1 pt. nd Applica als. of wate ates in 1 or bed or graz: 1. Do not applica als. of wate ates in 1 or bed or graz n. Do not a 0.25 to 0.5 pt. nd Applica als. of wate ates in 1 or bed or graz	28 ation: r per acre. more gal- e Milo pply during 28 ation: rr per acre. more gal- e Milo pply during 28 ation: rr per acre. more gal- e Milo ation: r per acre. more gal- e Milo
(REI = 48 hours) USE RESTRICTION uct) per acre per app	SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 g; Air Application: Apply above ra lons of water per acre. Do not fe within 28 days of last application the pollen:shed period. Grasshoppers, Mites (includ- ing Banks grass mites (ex- cluding Trans Pecos area of TX)), Twospotted spider mites SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 g; Air Application: Apply above ra lons of water per acre. Do not fe within 28 days of last application the pollen-shed period. Sorghum midge SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 g; Air Application: Apply above ra lons of water per acre. Do not fe	1 pt. nd Applica als. of wate ates in 1 or ped or graz: n. Do not applica als. of wate ates in 1 or october 0.25 to 0.5 pt. nd Applica als. of wate ates in 1 or ped or graz n. Do not a 0.25 to 0.5 pt. nd Applica als. of wate ates in 1 or ped or graz n. Do not a (1 pt. c 1 lb. a.i. (2	28 ation: r per acre. more gal- e Milo pply during 28 ation: rr per acre. more gal- e Milo pply during 28 ation: rr per acre. more gal- e Milo pply during ation: r per acre. more gal- e Milo pply during ation: r per acre. more gal- e Milo pply during

#### **FIELD CROPS**

Сгор	Pest Controlled	Rate per Acre	PHI (Days)
Soybeans (REI = 48 hours)	Alfalfa loopers, Aphids, Bean leaf beetles, Leafhoppers, Mexican bean beetles, Spider mites, Threecornered alfalfa hoppers	1 pt.	21
	SPECIFIC DIRECTIONS: Ground / above rate in 25 to 40 gals, of water plication: Apply above rate in a min water per acre. Do not feed or graze last application.	r per acre. A	Air Ap- gal. of
	Grasshoppers	• 1 pt.	21
	SPECIFIC DIRECTIONS: Ground a above rate in 25 to 40 gais, of wate Application: Apply above rate in 1 water per acre. Do not feed or graze last application.	r per acre. or more ga	Air Is. of
uct) per acre per ap	NS: Do not apply more than 0.5 lb. a. oplication. Do not apply more than 1 ll er year. Retreatment interval is 7 day	b. a.i. (2 pts	
Triticale, Wheat (REI = 48 hours)	Aphids, (Greenbugs), Wheat midges	0.5 to 0.75 pt.	60

El = 48 hours)	midges	0.75 pt.	
	SPECIFIC DIRECTIONS: Do not apply within 14 days of grazing immature plants.		
	Brown wheat mites	0.33 to 0.5 pt.	60
	SPECIFIC DIRECTIONS: Do not of grazing immature plants.	t apply within 1	4 days
	Grasshoppers	0.75 pt.	60
. •	SPECIFIC DIRECTIONS: Do not of grazing immature plants.	t apply within 1	4 days

USE RESTRICTIONS: Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per year.

#### **SEED CROPS**

Apply the higher rate when pest population is high.

Сгор	Pest Controlled	Rate per Acre	PHI (Days)
Alfalfa (REI = 48 hours)	Aphids, Grasshoppers, Leafhoppers, Lygus bugs, re- duction of Alfalfa weevil larvae	0.5 to 1 pt.	10
	SPECIFIC DIRECTIONS: Do not apply if the crops or weeds in the treatment area are in bloom. Do not feed or graze livestock in treated crop, hay, thresh- ings or stubble within 10 days of application.		
	Do not apply more than 0.5 lb. a cycle or cutting. Maximum total ra pt. of this product).		
Grasses grown for seed – ID, OR or WA	Aphids, Plant bugs, Thrips, Winter grain mites	0.5 to 0.66 pt.	14
only (REI = 48 hours)	SPECIFIC DIRECTIONS: Apply in a minimum of 2 gals. of water per acre. Apply by ground or aerial equipment. Do not graze or use seed or seed screenings for feed purposes. Do not use on seed Bermudagrass, seed Carrots, or seed Onions.		
uct) per acre per applie	Do not apply more than 0.5 lb. a cation. Do not apply more than 1 l year. Retreatment interval is 90 da	b. a.i. (2 pt	

# ORNAMENTAL PLANTS GROWN IN OUTDOOR NURSERIES ONLY

Do not use this product on ornamental plants grown in greenhouses, Christmas tree and Conifer plantations, landscapes, interiorscapes and residential, public, recreational, commercial, industrial and institutional establishments.

This product is generally effective in controlling aphids, thrips, leafminers, scales, leafnoppers 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 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.

#### **USE RESTRICTIONS**

FOR WOODY ORNAMENTALS AND CHRISTMAS TREE NURSERIES: Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per application. Do not apply more than 3 lbs. a.i. (6 pts. of this product) per acre per year. Retreatment interval is 14 days. When applications are made by high pressure handwand equipment, the maximum application rate for all crops and use patterns is 0.0025 lb. a.i. (0.08 fl. oz. of this product) per gallon. The REI is 10 days, however, the REI is increased to 14 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

FOR HERBACEOUS ORNAMENTALS: Do not apply more than 0.25 lb. a.i. (0.5 pt. of this product) per acre per application. Do not apply more than 0.25 lb. a.i. (0.5 pt. of this product) per acre per year. The REI is 48 hours.

FOR CONIFER SEED ORCHARDS: Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year. The REI is 48 hours, however, the REI is increased to 4 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

Special Exception for Airblast Applications to Douglas Fir Seed Orchards in WA and OR only: Do not apply more than 4.15 lbs. a.i. (8.3 pts. of this product) per acre per application. Do not apply more than 4.15 lbs. a.i. (8.3 pts. of this product) per acre per year. If airblast applications are applied at a rate greater than 1 lb. a.i. per acre, the REI is 16 days, however, the REI is increased to 25 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

FOR COTTONWOOD (grown for pulp): Do not apply more than 2.lbs. a.i. (4 pts. of this product) per acre per application. Do not apply more than 6 lbs. a.i. (12 pts. of this product) per acre per year. The REI is 14 days, however, the REI is increased to 24 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

Plant	Pest Controlled	Rate of Application	
Arborvitae ·	Aphids, Bagworms, Mites	2 tsps. per gal. of water (3.5 fl. ozs. per 10 gals. water)	
Azaleas	Lace bugs, Leafminers, Mites, Tea scale, White- flies	1 tsp. per gal. water (1.75 fl. ozs. per 10 gals. water)	
Birch	Aphids, Leafminers	0.5 to 1 tsp. per gal. water (0.8 to 1.75 fl. ozs. per 10 gals. water)	
	SPECIFIC DIRECTIONS: For Leafminers, apply when leaves are expanded and repeat in 6 weeks. Use the higher rate of application when insect pest population is high.		
Boxwood	Leafminers, Mealybugs, Mites	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water)	
	SPECIFIC DIRECTIONS: For Leafminers, apply when leaves are expanded and repeat in 6 weeks. Use the higher rate of application when insect pest population is high.		
Camellias	Aphids, Camellia scale, Mites, Tea scale	Foliar Spray: 1 tsp. per gal. water (1.75 fl. ozs. per 10 gals. water Soil Drench: 2 fl. ozs. in 1 gal. water	
	SPECIFIC DIRECTIONS: Using the Soil Drench method, use 2 fl. ozs. in 1 gallon of water for plants up to 6 inches tail. Increase rate proportionately for larger plants. Apply as a soil drench around the base of plants in early Spring.		
Carnations	Aphids, Mites, Thrips	Soil Drench: 2 fl. ozs. per 500 sq. ft. of bed or bench	
	SPECIFIC DIRECTIONS: Apply in sufficient water for even distribution. Water in thoroughly following application.		
	distribution. Water in thorou	gniy tonowing application.	

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Plant	Pest Controlled	Rate of Application	
Christmas trees	Bagworms, Balsam twig aphids, Blue aphids, Eu- ropean pine shoot moths, Mites, Nantucket pine tip moths, Zimmer- man pine moths	3 tsps. per gal. water (5.25 fl. ozs. per 10 gals. water)	
		Do not use on Japanese maples ecies.	
Cottonwood (Poplar)	Aphids, Bagworms, Leaf beetles	Foliar Spray: 2 fl. ozs. per 6 gals. water. Soil Injection: 0.08 fl. oz. per inch · of tree circumference	
•	SPECIFIC DIRECTIONS: Foliar spray: Apply 2 ozs. per 6 gallons of water. Repeat on a 10-day interval, as necessary, up to 4 sprays per year. Soil Injection: Apply at a rate of 0.08 oz. per inch of tree circumference measured approxi- mately 5 feet 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 two inches of water. Leaf beetle (Chemigation): Apply 1.33 to 4 pints per acre through drip line. Application may be repeated two times. Refer to the Chemigation section for additional appli- cation information.		
Cypress	Bactra moth larvae	1 tsp. per gal, water (1.75 fl. ozs. per 10 gals, water) Apply as a drenching spray.	
Daylilies	Aphids, Thrips	2 tsps. per gal. water (3.5 fl. ozs. per 10 gals. water)	
Douglas fir	Fir cone midge	4 tsps. per gal. water (7 fl. ozs. per 10 gals. water) Make thorough coverage applica-	
	tion when cones are closed and pendant. Use hydraulic o backpack sprayer.		
Fraser fir	Rosette bud mites	1 to 2 tsps. per gal. water (1.75 to 3.5 fl. ozs. per 10 gals. water)	
	sprayer with a handheld s	Use a high pressure hydraulic pray gun to thoroughly wet trunk ck of tree. Use the higher rate of opulation is high.	
Euonymus	Aphids, Scales	1 to 2 tsps. per gal. water (1.75 to 3.5 fl. ozs. per 10 gals. water)	
SPECIFIC DIRECTIONS: Use the higher if insect pest population is high.			
Ficus nitida	Thrips	1 tsp. per gal. water (1.75 fl. ozs. per 10 gals. water)	
Gardenias	Tea scale, Whiteflies	1 tsp. per gal. water (1.75 fl. ozs. per 10 gals. water)	
Gerberas	Thrips	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water)	
Gladiolus	Aphids, Thrips	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water)	
Hackberry	Hackberry budgall psyl- lid, Hackberry nipplegall psyllid       Soil Injection: 1 part to 3 parts dilution         SPECIFIC DIRECTIONS: Use a 1:3 dilution (1 part of this product to 3 parts water). Apply using a low-pressure injec tor. Inject 1 fl. oz. of the dilution 6 inches below ground for each one-half inch of trunk diameter. Make insertions within		
	plants that have not been	r to bud break. Do not apply to established for at least 3 years.	
Hemlocks	Mites, Scales	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water) (Continued)	

Plant	Pest Controlled	Rate of Application	
Holly (English &	Leafminers, Mites, Soft scale	1 tsp. per gal. of water (1.75 fl. ozs. per	
American, not	· .	10 gals. water)	
Burford variety)	SPECIFIC DIRECTIONS: For Leafminers, apply in		
	Spring when Leafminer flies Summer, for control of larva		
Honeysuckie	Honeysuckle aphid	Soil Injection: 1 part to 3 parts dilution	
. ·	SPECIFIC DIRECTIONS: Use a 1:3 dilution (1 fl. oz. of this product for every 3 fl. ozs. of water). Apply using a low-pressure injector. Inject 1.25 fl. ozs. of the dilution 6 inches below ground for each one-half inch of trunk di- ameter. Do not apply to plants that have not been estab- lished for at least 3 years.		
Iris	Aphids, Iris borer, Thrips	2 tsps. per gal. water (3.5 fl. ozs. per 10 gals. water)	
	SPECIFIC DIRECTIONS: F new leaves are 5 to 6 inche	or borer control, spray when s tall.	
Oak	Golden oak scale	2 tsps. per gal. water (3.5 fl. ozs. per 10 gals. water)	
Pines, Juniper	Aphids, Bagworms, Euro- pean pine shoot moth, Midges, Mites, Zimmer- man pine moth	2 tsps. per gal. water (3.5 fl. ozs. per 10 gals. water)	
	Loblolly pine sawfly, Nantucket pine tip moth	3.5 tsps. per gal. water (6 fl. ozs. per 10 gals. water)	
Pinyon pine	Pinyon needle scale	2.5 tsps. per gal. water (4.3 fl. ozs. per 10 gals. water)	
	SPECIFIC DIRECTIONS: Apply spray to egg masse the base of the trees and to all rough bark and croto that can be reached from the ground. Make this bar plication when crawlers start to emerge from the eg Use hydraulic or backpack sprayer. Do not spray lea or needles since phytotoxicity may result.		
	Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth	Soil Injection: 1 part to 3 parts dilution	
	SPECIFIC DIRECTIONS: Use a 1:3 dilution (1 fl oz. of this product for every 3 fl. ozs. of water). Apply using a low-pressure injector. Inject 1.5 fl. ozs. of the dilution 6 inches below ground surface for each 1 inch of trunk di- ameter. Make insertions within dripline of tree. For Spin dle gall midge and Tip moth, apply in mid- to late-Spring For Pinyon borer, make application in early Summer.		
Poinsettia	Aphids, Mealybugs, Mites, Whiteflies	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water)	
Roses	Aphids, Leafhoppers, Thrips	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water)	
	SPECIFIC DIRECTIONS: Foliar Spray: Apply 2 sprays 6 weeks apart the first year followed by annual applica- tions 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 2 tablespoons (1 fl. oz.) per gallon of water per plant.		
Taxus (upright or spreading	Fletcher scale, Mealy- bugs, Mites	2 tsps. per gal. water (3.5 fl. ozs. per	

# STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. PESTICIDE STORAGE: Store in a cool, dry, well ventilated area. Avoid high temperatures. Do not store below 45°F.

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. 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.

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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.