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



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

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

MAY 2 3 2012

Dear Ms. Chan:

Subject:

Response to the Dimethoate Reregistration Eligibility Decision

EPA Reg. No. 19713-231; Decision No. 392699

The proposed labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable under FIFRA § 3(c)(5) provided that you submit one copy of your final printed labeling before you release the product for shipment.

Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

The basic Confidential Statement of Formula (CSF) dated 2/17/12 is acceptable. All other CSF's including Alternates have been superseded by this basic. This has been added to your record.

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

A stamped copy of the labeling is enclosed for your records. If you have any questions, please contact Dr. Jennifer Urbanski at 703-347-0156 or <u>urbanski.jennifer@epa.gov</u>.

Regards.

Venus Eagle, PM 1

Insecticide-Rodenticide Branch Registration Division (7505P)

Enclosure

ACCEPTED MAY 2 3 2012

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under:

EPA. Reg. No: 19713-23



GROUP 1B INSECTICIDE

# Dimethoate 4EC

Systemic Insecticide - Miticide

**ACTIVE INGREDIENT:** 

 Dimethoate\*
 43.5%

 OTHER INGREDIENTS:
 56.5%

 TOTAL:
 100.0%

\*This product contains 4 pounds of dimethoate per gallon.

# WARNING

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

EPA Reg. No. 19713-231 EPA Est. No. 19713-XX-XXX

**Net Content:** 

# FIRST AID

#### 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 by a poison control center or doctor.
- · Do not give anything by mouth to an unconscious or convulsing person.

#### 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.

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.

231SP-0512\*P

#### PRECAUTIONARY STATEMENTS

**Hazards To Humans and Domestic Animals** 

**WARNING:** May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if absorbed through skin. Avoid contact with skin.

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.

Mixers, loaders, applicators, flaggers, and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, goggles or face shield, 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 not 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 rainfall-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.

#### PHYSICAL OR CHEMICAL HAZARDS

Combustible. 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 to 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 (REI).

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: water-soluble 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. Do not exceed the maximum dosage rate indicated for any pesticide included in the tank mix. This product may not 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.

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

# GROUP 1B INSECTICIDE

DIMETHOATE 4EC contains a Group 1B insecticide or acaricide. Insect/mite biotypes with acquired resistance to Group 1B may eventually dominate the insect/mite population if Group 1B insecticides or acaricides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by this product or other Group 1B insecticides or acaricides.

To delay insecticide or acaricide resistance, consider:

- Avoiding the consecutive use of this product or other Group 1B insecticides/acaricides that have similar target site of action on the same insect/mite species.
- Using tank mixtures or premixes with insecticides/acaricides from a different target site action Group
  as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide/acaricide use on a comprehensive IPM program.
- Monitoring treated insect/mite populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for insecticide/acaricide resistance management and/or IPM recommendations for specific site and resistant pest problems.

#### 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.

Dilute Application – 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.

**Orchard Application** – 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.

**Air Application** – 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. For aerial applications to orchards, 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.

- 1. 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 ASABE 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.
- 5. All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.
- 6. For groundboom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy.
- 7. 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 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. Mix, in a clean supply tank, the specified 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 specified 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, 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. 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**

#### FRUIT CROPS

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Cherries	Aphids, Cherry fruit flies, Mites	2.66 pts. (max.)	21
(Preharvest) - ID, MT, OR, UT and WA only (REI = 10 days)*	SPECIFIC DIRECTIONS: Dilute Application per 100 gallons of water when insect porminimum 50 gals. of water.  On mature Sweet and Tart cherries, use using concentrated sprays to avoid fruit Ranier species). Make an application with application should be made in late May apply when trees or substantial number graze livestock in treated orchards.	2 pts. per acre. Precautions sho marking and injury on sensitive thin 7 days of adult fly emergen- or early June when fruits are sm	pplication: 2 pts. in buld be taken when varieties (such as ce in the area. This hall in size. Do not
apply more than 1.33	Do not apply more than 1.33 lbs. a.i. (2.66) lbs. a.i. (2.66) lbs. a.i. (2.66) pts. of this product) per acre nowever, the REI is increased to 14 days in part.	e per year.	
Cherries	Aphids, Cherry fruit flies, Mites	2.66 pts. (max.)	
(Postharvest) -	SPECIFIC DIRECTIONS: Dilute applicati		100 gallons of water.
ID, MT, OR, UT	Concentrate application: 2 pts. in mini	[10] [14] 기업 : [10] [10] [10] [10] [10] [10] [10] [10]	
and WA only (REI = 10 days)*	Make an application at a minimum of decision is made not to harvest due to conditions. For best results, make an a when trees or substantial numbers of w	poor fruit quality, a light crop application when fruit hardens	or unfavorable market or drops. Do not apply
	livestock in treated orchards. Use up to		
USE RESTRICTIONS:		2.66 pts. per acre when insect p	est population is high.
	livestock in treated orchards. Use up to	2.66 pts. per acre when insect p 6 pts. of this product) per acre	est population is high.

Kumquats, Lemons, Limes, Oranges, Pummelos, Tangelos, Tangerines (REI = 10 days)*  Scale SPECI applie foliag (Mist Do no graze USE RESTRICTIONS: Do not a more than 1 lb. (2 pts. of this *The REI is 10 days, however than 25 inches per year.		so of water if infestation is heavy coverage spray. Concentrate Approvide full coverage of foliage. Air numbers of weeds in the orchard 2 pts. (max.)  ation: 0.5 to 1.5 pts. in 50 to gallons of water if infestation is tribution coverage spray. Concentrate of the provide full coverage of foliagonumbers of weeds in the orchard this product) per acre per applicate apply to Citrus seedlings.	or if orchard foliage blication (Mist): App r Application: Apply I are in bloom. Do not  15  100 gals. for dilutes heavy or if orchard trate Application ge. I are in bloom. Do not
Lemons, Limes, Oranges, Pummelos, Fangelos, Fangerines (REI = 10 days)*  Do no graze Scale SPECI applii foliag (Mist Do no graze  USE RESTRICTIONS: Do not a more than 1 lb. (2 pts. of this *The REI is 10 days, however than 25 inches per year.	FIC DIRECTIONS: Ground Applicate cation. Mix 1 pt. in 50 to 100 gallon in a per acre in sufficient water to proper acre in 5 to 10 gals. of water. It is apply when trees or substantial in livestock in treated orchard. It is (except Black or Snow)  FIC DIRECTIONS: Ground Application. Mix 1.5 pts. in 50 to 100 in its dense. Apply as a thorough distriction of apply when trees or substantial in the product in treated orchards. It is product in treated orchards. It is product) per acre per year. Do not it is product) per acre per year.	so of water if infestation is heavy coverage spray. Concentrate Approvide full coverage of foliage. Air numbers of weeds in the orchard 2 pts. (max.)  ation: 0.5 to 1.5 pts. in 50 to gallons of water if infestation is tribution coverage spray. Concentrate of the provide full coverage of foliagonumbers of weeds in the orchard this product) per acre per applicate apply to Citrus seedlings.	or if orchard foliage blication (Mist): App r Application: Apply I are in bloom. Do not  15  100 gals. for dilutes heavy or if orchard trate Application ge. I are in bloom. Do not
Scale  SPEC applie foliag (Mist Do no graze  USE RESTRICTIONS: Do not a more than 1 lb. (2 pts. of this *The REI is 10 days, however than 25 inches per year.	s (except Black or Snow)  FIC DIRECTIONS: Ground Application. Mix 1.5 pts. in 50 to 100 e is dense. Apply as a thorough distipation of the state of	ation: 0.5 to 1.5 pts. in 50 to gallons of water if infestation is tribution coverage spray. Concent to provide full coverage of foliagoumbers of weeds in the orchard this product) per acre per applicate apply to Citrus seedlings.	100 gals. for dilutes heavy or if orchartrate Application ge.
SPEC applied foliage (Mist) Do not a graze USE RESTRICTIONS: Do not a graze than 1 lb. (2 pts. of this see than 25 inches per year.	FIC DIRECTIONS: Ground Applica cation. Mix 1.5 pts. in 50 to 100 e is dense. Apply as a thorough dis- ): 2 pts. per acre in sufficient water of apply when trees or substantial in livestock in treated orchards. pply more than 1 lb. a.i. (2 pts. of the product) per acre per year. Do not	gallons of water if infestation is tribution coverage spray. <b>Concen</b> to provide full coverage of foliag numbers of weeds in the orchard this product) per acre per applicat t apply to Citrus seedlings.	s heavy or if orchar trate Application ge. I are in bloom. Do no
		outdoor areas where the average	annual rainfall is le
Citoria	A second services	CONTRACTOR OF STREET	15
more than 1 lb. (2 pts. of this product) per acre per year. Do not apply to Citrus seedling:  *The REI is 10 days, however, the REI is increased to 14 days in outdoor areas where the than 25 inches per year.  Citrus,  Grapefruit,  Lemons,  Oranges,  Tangerines – AZ  Only  (REI = 10 days)*  Ground Application: Apply up to 1 lb. of active ingredient (2 pts. than 20 gals. of water per acre. Do not enter treated groves with Use of dimethoate is prohibited during any time of day in any giv orchard is 10% open bloom until such time as there has been at I north side of the trees. Applications of dimethoate shall be limite time between 1 hour after sunset to 3 hours before sunrise wher conditions prevail: 1) Before the onset of petal fall, the orchard to present and these open blooms represent less than 10% of the to orchard. 2) After the initiation of petal fall, there are less than 25 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 a pest control advisor, farm owner or farm manager, as is normal for custom applications of pesticides, except that private applicat Application Report" section. The description of the status of bloo treated as it was at the time of the application shall be indicated Restrictions/Special Instructions". Both private and custom		The type of equipment used will active ingredient (2 pts. of this printer treated groves within 4 days any time of day in any given orchance as there has been at least 75% imethoate shall be limited to that ours before sunrise when any one of petal fall, the orchard to be treat less than 10% of the total anticall, there are less than 25% of ope over the calendar dates  must be documented on Form 10 mm manager, as is normally require cept that private applicators may tion of the status of bloom of the cation shall be indicated in the se	roduct) in not less of last application. and from when that for petal fall on the transport period of the following ated has open bloom in the en blooms remaining the form th

**USE RESTRICTIONS:** DO NOT apply by air. 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 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.

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Citrus – AZ &	Aphids, Thrips	2 pts. (max.)	
CA: Non-bearing and Nursery stock (REI = 10 days)*	SPECIFIC DIRECTIONS: Foliar Spray: 1 pt. per 10 trees begin to bear fruit. Soil Drench (Trees 1 tfurrow or basin around the base of the tree. App Do not apply to trees that will bear fruit within 1 to not apply when trees or substantial numbers graze livestock in treated orchards.	to 3 years old): 2 pts. per ally when insect injury to no year.	r acre. Apply in the ew growth appears.
more than 1 lb. (2 pt	Do not apply more than 1 lb. a.i. (2 pts. of this proses, of this product) per acre per year. DO NOT apply be however, the REI is increased to 14 days in outdoor again.	oy air.	
Pears	Aphids, Leafhoppers, Mites (except Rust), Pear ps	syllas 2 pts. (max.)	28
(REI = 10 days)*	SPECIFIC DIRECTIONS: <b>Ground Application:</b> 0.5 application. Apply as a thorough distribution cov 1 to 2 pts. per acre in sufficient water to provide 2 pts. per acre in 5 to 10 gals. of water.  Use up to 2 pts. of this product per acre. Do not	erage spray. Concentrate full coverage of foliage. At apply when trees or sub	Application (Mist): Air Application: 1 to stantial numbers of
	weeds in the orchard are in bloom. Do not graze I	livestock in treated orchar	ds.

apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom. **USE RESTRICTIONS:** 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.

Aphids, Leafhoppers, Mites (except Rust), Pear psyllas

than 25 inches per year.

Pears – Non-bearing A

(REI = 10 days)\*

\*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.

SPECIFIC DIRECTIONS: Use 0.5 to 1 pt. per 100 gals. of water as dilute application. Mix up to 1 pt. of this product per 100 gallons of water. Do not graze livestock in treated orchards. Do not

2 pts. (max.)

Mustard greens.

Crop	Pest Controlled F	Rate Per Acre	PHI (Days)
Asparagus –	Aphids, Asparagus beetles	1 pt.	180
except AZ & CA	SPECIFIC DIRECTIONS: Apply after the last harvest at no less than 14-day intervals,		av intervals, up to
REI = 48 hours)	maximum of 2 pts. per acre per year. Do not apply less than 180 days before harvest.		
JSE RESTRICTIONS:	Do not apply more than 0.5 lb. a.i. (1 pt. of this product		
	2 pts. of this product) per acre per year.		
Beans including	Aphids, Bean leaf beetles, Grasshoppers, Leafhoppers,	0.5 to 1 pt.	0
resh, Lima, Snap	Leafminers, Lygus bugs, Mexican bean beetles, Mites		
and Dry beans	SPECIFIC DIRECTIONS: Do not feed treated vines. Do	not apply if bees are	e visiting the area
excludes Cowpeas)	be treated when crops or weeds are in bloom.		
REI = 48 hours)			
JSE RESTRICTIONS:	Do not apply more than 0.5 lb. a.i. (1 pt. of this product	) per acre per appli	cation. Do not ap
more than 1 lb. a.i. (	2 pts. of this product) per acre per year. Retreatment inte	rval is 14 days	
Broccoli, Cauliflower	Aphids	0.5 to 1 pt.	7
REI = 48 hours)*			
	<ol> <li>(3 pts. of this product) per acre per year. Retreatment in however, the REI is increased to 72 hours in outdoor are year.</li> </ol>	THE RESIDENCE OF THE PARTY OF T	age annual rainfa
cos chan 25 menes p	ici year.		
Brussels sprouts -	Aphids	1 pt.	10
Brussels sprouts –	Aphids  SPECIFIC DIRECTIONS: Apply in a minimum of 50 gals.	1 pt.	10
CA Only REI = 48 hours)*  JSE RESTRICTIONS: more than 1.5 lbs. a.	Aphids  SPECIFIC DIRECTIONS: Apply in a minimum of 50 gals. at 7-day intervals. Do not graze livestock in treated field Do not apply more than 0.5 lb. a.i. (1 pt. of this product) prince i. (3 pts. of this product) per acre per year. Retreatment in however, the REI is increased to 72 hours in outdoor area.	of water per acre by ds. Do not apply by er acre per applicat aterval is 7 days.	ground equipme air. ion. Do not apply
CA Only REI = 48 hours)*  JSE RESTRICTIONS: more than 1.5 lbs. a. The REI is 48 hours, ess than 25 inches p Celery	SPECIFIC DIRECTIONS: Apply in a minimum of 50 gals. of at 7-day intervals. Do not graze livestock in treated field Do not apply more than 0.5 lb. a.i. (1 pt. of this product) pi. (3 pts. of this product) per acre per year. Retreatment in however, the REI is increased to 72 hours in outdoor area.	of water per acre by ds. Do not apply by er acre per applicat aterval is 7 days.	ground equipme air. ion. Do not apply
CA Only REI = 48 hours)*  JSE RESTRICTIONS: more than 1.5 lbs. a. The REI is 48 hours, ess than 25 inches p Celery REI = 48 hours)	SPECIFIC DIRECTIONS: Apply in a minimum of 50 gals. of at 7-day intervals. Do not graze livestock in treated field Do not apply more than 0.5 lb. a.i. (1 pt. of this product) product) per acre per year. Retreatment in however, the REI is increased to 72 hours in outdoor area per year.  Carmine mites, Leafminers, Two-spotted spider mites	of water per acre by ds. Do not apply by er acre per applicative as where the average 1 pt.	ground equipme air. ion. Do not apply se annual rainfall is
CA Only REI = 48 hours)*  JSE RESTRICTIONS: more than 1.5 lbs. a. *The REI is 48 hours, ess than 25 inches p Celery REI = 48 hours)  JSE RESTRICTIONS:	SPECIFIC DIRECTIONS: Apply in a minimum of 50 gals. of at 7-day intervals. Do not graze livestock in treated field Do not apply more than 0.5 lb. a.i. (1 pt. of this product) pri. (3 pts. of this product) per acre per year. Retreatment in however, the REI is increased to 72 hours in outdoor area per year.  Carmine mites, Leafminers, Two-spotted spider mites  Do not apply more than 0.5 lb. a.i. (1 pt. of this product) principles.	of water per acre by ds. Do not apply by er acre per application as where the average 1 pt.  er acre per application as where the average 1 pt.	ground equipme air. ion. Do not apply se annual rainfall is
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CA Only REI = 48 hours)*  JSE RESTRICTIONS: more than 1.5 lbs. a. The REI is 48 hours, ess than 25 inches p Celery REI = 48 hours)  JSE RESTRICTIONS: more than 1.5 lbs. a. Endive (Escarole),	SPECIFIC DIRECTIONS: Apply in a minimum of 50 gals. of at 7-day intervals. Do not graze livestock in treated field Do not apply more than 0.5 lb. a.i. (1 pt. of this product) pri. (3 pts. of this product) per acre per year. Retreatment in however, the REI is increased to 72 hours in outdoor area per year.  Carmine mites, Leafminers, Two-spotted spider mites  Do not apply more than 0.5 lb. a.i. (1 pt. of this product) principles.	of water per acre by ds. Do not apply by er acre per application as where the average 1 pt.  er acre per application as where the average 1 pt.	ground equipme air. ion. Do not apply se annual rainfall is
CA Only REI = 48 hours)*  JSE RESTRICTIONS: more than 1.5 lbs. a. The REI is 48 hours, ess than 25 inches p Celery REI = 48 hours)  JSE RESTRICTIONS: more than 1.5 lbs. a. Endive (Escarole), Leaf lettuce, Swiss	SPECIFIC DIRECTIONS: Apply in a minimum of 50 gals. at 7-day intervals. Do not graze livestock in treated field Do not apply more than 0.5 lb. a.i. (1 pt. of this product) pi. (3 pts. of this product) per acre per year. Retreatment in however, the REI is increased to 72 hours in outdoor area per year.  Carmine mites, Leafminers, Two-spotted spider mites  Do not apply more than 0.5 lb. a.i. (1 pt. of this product) pi. (3 pts. of this product) per acre per year. Retreatment in	of water per acre by ds. Do not apply by er acre per applicat aterval is 7 days. as where the average 1 pt.  er acre per applicat aterval is 7 days.	ground equipme air. ion. Do not apply se annual rainfall is 7 ion. Do not apply
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CA Only REI = 48 hours)*  JSE RESTRICTIONS: more than 1.5 lbs. a. The REI is 48 hours, ess than 25 inches p Celery REI = 48 hours)  JSE RESTRICTIONS: more than 1.5 lbs. a. Endive (Escarole), eaf lettuce, Swiss chard REI = 48 hours)  JSE RESTRICTIONS: more than 0.75 lb. a. Garbanzo beans REI = 48 hours)  JSE RESTRICTIONS: more than 1 lb. a.i. (3)	SPECIFIC DIRECTIONS: Apply in a minimum of 50 gals. of at 7-day intervals. Do not graze livestock in treated field. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) pi. (3 pts. of this product) per acre per year. Retreatment in however, the REI is increased to 72 hours in outdoor area per year.  Carmine mites, Leafminers, Two-spotted spider mites  Do not apply more than 0.5 lb. a.i. (1 pt. of this product) pi. (3 pts. of this product) per acre per year. Retreatment in Aphids, Leafhoppers, Leafminers  Do not apply more than 0.25 lb. a.i. (0.5 pt. of this product). (1.5 pts. of this product) per acre per year. Retreatment Aphids, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mites  SPECIFIC DIRECTIONS: Do not feed treated vines. Do not be treated when crops or weeds are in bloom.  Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per per year. Retreatment interview.	of water per acre by ds. Do not apply by er acre per application as where the average 1 pt.  I pt.  er acre per application as where the average 1 pt.  er acre per application as 7 days.  O.5 pt.  ot apply if bees are very a proper acre per application apply if bees are very a series as 14 days.  O.5 pt.	r ground equipme air. ion. Do not apply te annual rainfall is 7 ion. Do not apply 14 cation. Do not apply 0 visiting the area to ion. Do not apply 14

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Lentils (REI = 48 hours)	Aphids	0.33 to 1 pt.	14
	SPECIFIC DIRECTIONS: Do not feed or g areas to be treated when crops or wee	*** CONTROL OF THE PROPERTY OF	if bees are visiting the
	Lygus bugs	1 pt.	14
	SPECIFIC DIRECTIONS: Do not feed or g areas to be treated when crops or wee		if bees are visiting the
	Do not apply more than 0.5 lb. a.i. (1 pt. c (2 pts. of this product) per acre per year. R	(c) [1.1] [2.1] [3.1] [3.1] [3.1] [4.1] [4.1] [4.1] [4.1] [4.1] [4.1] [4.1] [4.1] [4.1] [4.1] [4.1] [4.1] [4.1]	cation. Do not apply
Lentils - WA Only	Aphids, Lygus bugs	0.25 to 1 p	t. 14
(REI = 48 hours)	SPECIFIC DIRECTIONS: Apply when installing a.i. (2 pts. of this product) per acre per Note: CHEMIGATION – Do not apply the	year. Do not feed or graze hay or rough any type of irrigation system	r treated vines. em.
	Do not apply more than 0.5 lb. a.i. (1 pt. o (2 pts. of this product) per acre per year. R		cation. Do not apply
Melons - Except Watermelons (REI = 48 hours)	Aphids, Leafhoppers, Leafminers, Mag	gots, Thrips 1 pt.	3
	Do not apply more than 0.5 lb. a.i. (1 pt.	of this product) per acre per an	polication Do not app
	(2 pts. of this product) per acre per year. R		pheacion. Do not app
Peas (REI = 48 hours)	Aphids	0.3 pt.	0
	SPECIFIC DIRECTIONS: Do not feed or g stationary viner is used. Do not feed or than 1 application per growing season, when crops or weeds are in bloom. Do per acre per application. Do not apply per year. Not for use on Field peas.	graze when a mobile viner is use Do not apply if bees are visiting to not apply more than 0.16 lb. a.i.	ed. Do not make more the areas to be treated (0.3 pt. of this produc
	Lygus bugs	0.3 pt.	0
	SPECIFIC DIRECTIONS: Do not feed or g stationary viner is used. Do not feed or than 1 application per growing season, when crops or weeds are in bloom. Do per acre per application. Do not apply per year. Not for use on Field peas.	graze when a mobile viner is use Do not apply if bees are visiting to not apply more than 0.16 lb. a.i.	ed. Do not make more the areas to be treated (0.3 pt. of this produc
Dry Peas - ID, OR	Aphids	0.33 to 0.66	pt. 0
and WA only (REI = 48 hours)	Aphids  O.33 to 0.66 pt.  O  SPECIFIC DIRECTIONS: Apply in a minimum spray volume of not less than 5 gals. of water acre by ground or air application. Do not exceed 0.5 b. a.i. (1 pt. of this product) per acre year. Allow at least 7 days between applications. Do not graze livestock on cover crops in treated areas.  Note: CHEMIGATION – Do not apply through any type of irrigation system.  Do not apply if bees are visiting the areas to be treated when crops or weeds are in blook of the peas.		product) per acre per on em.

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Succulent Peas - ID,	Aphids	0.33 pt.	0
OR and WA only		0.5 to 0.66 pt.	0
(REI = 48 hours)	SPECIFIC DIRECTIONS: Apply in a minimum spray volu acre by ground or air application. Do not exceed 0.5 ll season. Allow at least 7 days between applications. It treated areas.  Note: CHEMIGATION – Do not apply through any type Do not apply if bees are visiting the areas to be treated Not for use on Field peas.	b. a.i. (1 pt. of this prod Do not graze livestock of of irrigation system.	luct) per acre pe on cover crops i
Succulent Peas	Aphids, Leafminers, Thrips	0.33 pt.	0
(with pod) - CA Only (REI = 48 hours)	SPECIFIC DIRECTIONS: Multiple applications may be m 0.5 lb. a.i. (1 pt. of this product) per acre per season. D per growing season. Not for use on Field peas.	o not make more than	3 applications
Peppers (REI = 48 hours)	Aphids, Leafhoppers, Maggots	0.5 to 0.66 pt.	0
	o not apply more than 0.33 lb. a.i. (0.66 pt. of this produles. a.i. (3.3 pts. of this product) per acre per year. Retre		
Potatoes (REI = 48 hours)	Aphids, Grasshoppers, Leafhoppers, Leafminers	0.5 to 1 pt.	0
	o not apply more than 0.5 lb. a.i. (1 pt. of this product) ppts. of this product) per acre per year. Retreatment inte		. Do not apply
Tomatoes (REI = 48 hours)	Aphids, Leafhoppers, Leafminers	0.5 to 1 pt.	7
	to not apply more than 0.5 lb. a.i. (1 pt. of this product) ppts. of this product) per acre per year. Retreatment inte		Do not apply
Turnip - Greens, Roots (REI = 48 hours)	Aphids, Leafhoppers, Leafminers	0.5 pt.	14
USE RESTRICTIONS: D	o not apply more than 0.25 lb. a.i. (0.5 pt. of this produc	t per acre per application	on. Do not apply
more than 1.75 lbs. a.	i. (3.5 pts. of this product) per acre per year. Retreatmen	nt interval is 72 hours.	
Watermelons (REI = 48 hours)	Aphids, Leafhoppers, Leafminers, Maggots, Thrips	0.5 to 1 pt.	3
USE RESTRICTIONS: D	o not apply more than 0.5 lb. a.i. (1 pt. 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. Retreatment inte	erval is 7 days.	

# **FIELD CROPS**

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

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Alfalfa, Sainfoin (REI = 48 hours)	Aphids, Grasshoppers, Leafhoppers, Plant bugs (including Lygus), reduction of Alfalfa weevil larvae	0.5 to 1 pt.	10
	SPECIFIC DIRECTIONS: Do not apply within 10 diapplication per crop cycle or cutting. Effective only bees are visiting the area to be treated when crops	on cutting to which appl	
USE RESTRICTIONS:	Do not apply more than 0.5 lb. a.i. (1 pt. of this prod	uct) per acre per applica	ation. Do not appl
	(1 pt. of this product) per crop cycle or cutting. Do no mes per year. Minimum retreatment interval is 30 day		per cutting. Do no
Cotton - AZ and CA Only	Black fleahoppers, Leafhoppers, Plant bugs (including Lygus), Thrips	0.5 to 1 pt.	14
(REI = 48 hours)	SPECIFIC DIRECTIONS: Do not feed treated forage o	r graze livestock in treat	ed fields.
	Do not apply more than 0.5 lb. a.i. (1 pt. of this prode pts. of this product) per acre per season. Retreatmer		ation. Do not apply
Cotton - Except AZ	Aphids, Fleahoppers, Mites, Plant bugs, Thrips	0.25 to 1 pt.	14
(REI = 48 hours)	SPECIFIC DIRECTIONS: When water is used for dil intervals closer than 14 days. When refined vege repeat applications at intervals closer than 40 d	table oil is used for dilu	ition, do not make
	livestock on treated fields.		
	Lygus bugs  SPECIFIC DIRECTIONS: When water is used for dil intervals closer than 14 days. When refined vege		
	Lygus bugs  SPECIFIC DIRECTIONS: When water is used for dil intervals closer than 14 days. When refined vege repeat applications at intervals closer than 40 d livestock on treated fields.  Do not apply more than 0.5 lb. a.i. (1 pt. of this products)	ution, do not make rep table oil is used for dilu ays. Do not feed treate uct) per acre per applica	eat applications a ation, do not make ed forage or graze
	Lygus bugs  SPECIFIC DIRECTIONS: When water is used for dil intervals closer than 14 days. When refined vege repeat applications at intervals closer than 40 d livestock on treated fields.  Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per season. Retreatmer Aphids, Banks grass mites (except Trans Pecos area of TX), Bean beetles, Corn rootworms (adults), Fleahoppers, Thrips, Two-spotted	ution, do not make rep table oil is used for dilu ays. Do not feed treate uct) per acre per applica	eat applications a ation, do not make ed forage or graze
more than 1 lb. a.i. (2 Corn - Field, Pop	Lygus bugs  SPECIFIC DIRECTIONS: When water is used for dil intervals closer than 14 days. When refined vege repeat applications at intervals closer than 40 d livestock on treated fields.  Do not apply more than 0.5 lb. a.i. (1 pt. of this prode pts. of this product) per acre per season. Retreatment Aphids, Banks grass mites (except Trans Pecos area of TX), Bean beetles, Corn rootworms (adults), Fleahoppers, Thrips, Two-spotted spider mites  SPECIFIC DIRECTIONS: Ground Application: Apply acre. Air Application: Apply above rates in 1 or mor Do not feed or graze within 14 days of last application:	ution, do not make reptable oil is used for diluays. Do not feed treate uct) per acre per application interval is 14 days.  0.66 to 1 pt.  above rate in 20 to 40 regals. of water per acre	eat applications a ation, do not make ded forage or graze ation. Do not apple 28 (Grain) 14 (Forage) gals. of water pe
more than 1 lb. a.i. (2 Corn - Field, Pop	Lygus bugs  SPECIFIC DIRECTIONS: When water is used for dil intervals closer than 14 days. When refined vege repeat applications at intervals closer than 40 d livestock on treated fields.  Do not apply more than 0.5 lb. a.i. (1 pt. of this prode pts. of this product) per acre per season. Retreatment Aphids, Banks grass mites (except Trans Pecos area of TX), Bean beetles, Corn rootworms (adults), Fleahoppers, Thrips, Two-spotted spider mites  SPECIFIC DIRECTIONS: Ground Application: Apply acre. Air Application: Apply above rates in 1 or more	ution, do not make reptable oil is used for diluays. Do not feed treate uct) per acre per application interval is 14 days.  0.66 to 1 pt.  above rate in 20 to 40 regals. of water per acre	eat applications a ation, do not maked forage or graze ation. Do not application. Do not application at (Forage)  gals. of water personners.

(continued)

arid areas and for 15 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

Safflower - AZ and CA Only (REI = 48 hours)	Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips	0.5 to 1 pt.	(Days)
	ППр	5.5.15.2 pt.	14
	Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per (1 pt. of this product) per acre per year.	er acre per application.	Do not apply
Sorghum (Milo) (REI = 48 hours)	Aphids (Green bugs)	0.5 to 1 pt.	28
	SPECIFIC DIRECTIONS: <b>Ground Application:</b> Apply aboracre. <b>Air Application:</b> Apply above rates in 1 or more ga Do not feed or graze Milo within 28 days of last applicated period if bees are visiting the area.	ls. of water per acre.	
	Grasshoppers, Mites (including Banks grass mites [excluding Trans Pecos area of TX]), Two-spotted spider mites	1 pt.	28
	SPECIFIC DIRECTIONS: <b>Ground Application:</b> Apply aboracre. <b>Air Application:</b> Apply above rates in 1 or more ga Do not feed or graze Milo within 28 days of last applications shed period if bees are visiting the area.	ls. of water per acre.	
	Sorghum midge	0.25 to 0.5 pt.	28
	Do not feed or graze Milo within 28 days of last applic shed period if bees are visiting the area. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per pts. of this product) per acre per year. Retreatment inter-	er acre per application.	
Soybeans (REI = 48 hours)	Alfalfa loopers, Aphids, Bean leaf beetles, Leafhoppers, Mexican bean beetles, Spider mites, Threecornered alfalfa hoppers	1 pt.	21
	SPECIFIC DIRECTIONS: <b>Ground Application</b> : Apply above acre. <b>Air Application</b> : Apply above rate in a minimum of Do not feed or graze within 5 days of last application.		
	Grasshoppers	1 pt.	21
	SPECIFIC DIRECTIONS: <b>Ground Application:</b> Apply above acre. <b>Air Application:</b> Apply above rate in a minimum of Do not feed or graze within 5 days of last application.		
ICE DECEDIORIO	Do not apply more than 0.5 lb. a.i. (1 pt. of this product) pe	er acre per application.	Do not apply
	pts. of this product) per acre per year. Retreatment inter-	val is 7 days.	
more than 1 lb. a.i. (2 Wheat	Aphids (Green bugs), Wheat midges	0.5 to 0.75 pt.	35
more than 1 lb. a.i. (2		0.5 to 0.75 pt. 0.33 to 0.5 pt.	35 35

#### **SEED CROPS**

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

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Alfalfa (REI = 48 hours)	Aphids, Grasshoppers, Leafhoppers, Plant bugs (including Lygus), reduction of Alfalfa weevil larvae	0.5 to 1 pt.	10
	SPECIFIC DIRECTIONS: Do not apply if the crops or w Do not feed or graze livestock in treated crop, hay, t application.		
more than 0.5 lb. a.i	Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per crop cycle or cutting. Do no mes per year. Minimum retreatment interval is 30 days	t apply more than once i	
Grass grown for	Aphids, Plant bugs, Thrips, Winter grain mites,	0.5 to 0.66 pt.	14
seed - ID, OR and WA only (REI = 48 hours)	SPECIFIC DIRECTIONS: Apply in a minimum of 2 gals. aerial equipment. Do not graze or use seed or seed on seed Bermudagrass, seed Carrots, or seed Onions	screenings for feed purp	
	Do not apply more than 0.33 lb. a.i. (0.66 pt. of this prob. a.i. (2 pts. of this product) per acre per year. Retreatn		ation. Do not

#### 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 effective in controlling many sucking, piercing, and chewing insects, including aphids, thrips, leafminers, psyllids, scales, leafhoppers and mites that attack valuable ornamental plants. 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 on this label unless personal experience has shown that this product is not phytotoxic to your plants. A small test area should always be sprayed first before general use. 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 and Plum, Hawthorn, Honeysuckle, Japanese Lace Maple and Aspens are more sensitive to this product at early

growth stages. Do not apply to sensitive species that have not been established for at least 3 years. 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 of greater than 1 lb. a.i. (2 pts. of this product) 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. of water)
Azaleas	Lace bugs, Leafminers, Mites, Tea scale, Whiteflies	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water)
Birch	Aphids, Leafminers	0.5 to 1 tsp. per gal. of water (0.8 to 1.75 fl. ozs. per 10 gals. of water)
	SPECIFIC DIRECTIONS: For leafminers, apply when lead Use the higher rate of application when insect pest p	
Boxwood	Leafminers, Mealybugs, Mites	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water)
	SPECIFIC DIRECTIONS: For leafminers, apply when lea	aves are expanded and repeat in 6 weeks
Camellias	Aphids, Camellia scale, Mites, Tea scale	Foliar Spray: 1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water) Soil Drench: 2 fl. ozs. in gal. water
	SPECIFIC DIRECTIONS: Using the Soil Drench method plants up to 6 inches tall. Increase rate proportionate drench around the base of plants in early Spring.	Made a little fra 1700 March (MATICAL MATICAL TO A CALLET A SHE A TO A CALLET A CALLET A CALLET A CALLET A CAL
Carnation	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 thorough following application.	

Plant	Pest Controlled	Rate of Application		
Cedar	Mites	2 tsps. per gal. of water (3.5 fl. ozs. per 10 gals. of water)		
Christmas trees	Bagworms, Balsam twig aphids, Blue aphids, European pine shoot moths, Mites, Nantucket pine tip moths, Zimmerman pine moths	3 tsps. per gal. of water (5.25 fl. ozs. per 10 gals. of water)		
	SPECIFIC DIRECTIONS: Do not use on Japanese maples or	Red leaf ornamental species.		
Cottonwood (Poplar)	Aphids, Bagworms, Leaf beetles	Foliar Spray: 2 fl. ozs. per 6 gals. of water Soil Injection: 0.08 fl. oz. per inch of tree circumference		
	interval, as necessary, up to 4 sprays per year. <b>Soil Inject</b> inch of tree circumference measured approximately 5 fs should be made shortly after trees leaf out and again 6 to a 4- to 6-inch level below ground surface. Number of tree circumference. Water heavily with at least two inchesteaf beetle (Chemigation): Apply 1.33 to 4 pints per across be repeated two times. Refer to the Chemigation section information.	eet above ground level. Application to 8 weeks later, if necessary. Inject of injections should equal inches on the set of water.  The through drip line. Application materials in the set of water.		
Cypress	Bactra moth larvae	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water)		
	SPECIFIC DIRECTIONS: Apply as a drenching spray.			
Daylilies	Aphids, Thrips	2 tsps. per gal. of water (3.5 fl. ozs. per 10 gals. of water)		
Douglas fir	Fir cone midge	4 tsps. per gal. of water (7 fl. ozs. per 10 gals. of water)		
	SPECIFIC DIRECTIONS: Make thorough coverage application w Use hydraulic or backpack sprayer.	when cones are closed and pendant.		
Fraser fir	Rosette bud mite	1 to 2 tsps. per gal. of water (1.75 to 3.5 fl. ozs. per 10 gals. of water)		
	SPECIFIC DIRECTIONS: Use a high pressure hydraulic sprathoroughly wet trunk and limbs on front and back of tree fl. ozs. per 10 gallons) of water if insect pest population i	e. Mix up to 2 tsps. per gallon (3.5		
Euonymus	Aphids, Scales	1 to 2 tsps. per gal. of water (1.75 to 3.5 fl. ozs. per 10 gals. of water)		
	SPECIFIC DIRECTIONS: Mix up to 2 tsps. per gallon (3.5 fl. ozs. per 10 gallons) of water if insect pest population is high.			
Ficus nitida	Thrips	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water)		
Gardenias	Tea scales, Whiteflies	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water)		
Gerberas	Thrips	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water)		
Gladiolus	Aphids, Thrips	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water)		

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Plant	Pest Controlled	Rate of Application	
Hackberry	Hackberry budgall psyllid, Hackberry nipplegall psyllid	<b>Soil Injection:</b> 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 injector. Inject 1 fl. oz. of the dilution 6 inches below ground for each one-half 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.		
Hemlocks	Mites, Scales	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water)	
Holly (English & American, not Burford variety)	Leafminers, Mites, Soft scale	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water)	
	SPECIFIC DIRECTIONS: For leafminers, apply in Spring when leafminer flies first appear, or in early Summer, for control of larvae in infested leaves.		
Honeysuckle	Honeysuckle aphid	Soil Injection: 1 part to 3 parts dilution	
Iris	SPECIFIC DIRECTIONS: Use a 1:3 dilution (1 fl. oz. of this p water). Apply using a low-pressure injector. Inject 1.25 fl. ground for each one-half inch of trunk diameter. Do not a established for at least 3 years.  Aphids, Iris borer, Thrips	ozs. of the dilution 6 inches below	
IIIS		(3.5 fl. ozs. per 10 gals. of water)	
0-1	SPECIFIC DIRECTIONS: For borer control, spray when new Golden oak scale	2 tsps. per gal. of water	
Oak	Golden oak scale	(3.5 fl. ozs. per 10 gals. of water)	
Pines, Juniper	Aphids, Bagworms, European pine shoot moth, Midges, Mites, Zimmerman pine moth	2 tsps. per gal. of water (3.5 fl. ozs. per 10 gals. of water)	
	Loblolly pine sawfly, Nantucket pine tip moth	3.5 tsps. per gal. of water (6 fl. ozs. per 10 gals. of water)	
Pinyon pine	Pinyon needle scale	2.5 tsps. per gal. of water (4.3 fl. ozs. per 10 gals. of water)	
	SPECIFIC DIRECTIONS: 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	Soil Injection: 1 part to 3 parts dilution	
	SPECIFIC DIRECTIONS: Use a 1:3 dilution (1 fl oz. of this property using a low-pressure injector. Inject 1.5 fl. ozs. of surface for each 1 inch of trunk diameter. Make inse	the dilution 6 inches below groun	

(continuation)

Plant	Pest Controlled	Rate of Application	
Poinsettia	Aphids, Mealybugs, Mites, Whiteflies	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water)	
Roses	Aphids, Leafhoppers, Thrips	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water)	
	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 2 tablespoons (1 fl. oz.) per gallon of water per plant.		
Taxus (upright or Spreading Yew)	Fletcher scale, Mealybugs, Mites	2 tsps. per gal. of water (3.5 fl. ozs. per 10 gals. of water)	

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or 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:**

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

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

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

Dispose of empty container in a sanitary landfill or by incineration.

### WARRANTY—CONDITIONS OF SALE

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

Manufactured By:



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