

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

JAN 19 2012

300/1153

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

Subject:

DIMETHOATE 4EC

EPA Registration No. 19713-231

Amendment Application Submitted on January 11, 2012

Dear Ms. Chan:

The label submitted on January 11, 2012, is accepted under the provisions of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended. The changes listed should be made before labels are printed.

- 1. In the first sentence of the fourth "TANK MIXING:" paragraph (Add tank ... product", page 4), "tank mixing" should be changed to "tank-mixing", and "water soluble" should be changed to "water-soluble".
- 2. In the last sentence of the last "TANK MIXING:" paragraph, "cannot" should be changed to "may not".
- 3. In the last sentence in the "SPECIFIC DIRECTIONS:" cell pertaining to "Cherries (Postharvest) ID, MT, OR, UT and WA only" (page 7), "the higher application rate" should be replaced by "up to 2.66 pints per acre".
- 4. On page 8, a space should be inserted between the second and third sentences of the second of the "SPECIFIC DIRECTIONS:" cells pertaining to "Grapefruit, Kumquats, Lemons, Limes, Oranges, Pummelos, Tangelos, Tangerines" (i.e., "dense.Apply" should be changed to "dense. Apply).
- 5. In the "Air Application:" sentence in the second paragraph of "SPECIFIC DIRECTIONS:" for "Corn Field, Pop" (page 13), "water" should be changed to "water per acre."

6. The site "Arborvitae" should appear only once in the use table for "ORNAMENTAL PLANTS GROWN IN OUTDOOR NURSERIES". Where this site appears, the full directions should be used, complete with the "SPECIFIC DIRECTIONS:" paragraph (as on page 17 rather than page 16).

A stamped copy of the label is enclosed for your records.

Submit two copies of final printed labeling before releasing this product for shipment under the labeling accepted via this letter. Products shipped after 18 months from the date of this Notice or the next printing of the label, whichever occurs first, must bear this revised label.

If these conditions are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6(e).

If you have any questions, please contact Dr. William Jacobs at 703-305-6406 or Jacobs.bill@EPA.gov.

7.11

Sincerely,

Venus Eagle Product Manager 01

Insecticide-Rodenticide Branch Registration Division (7505P) Office of Pesticide Programs

JAN 19 2012

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

Drexel. Reg. No:

19713 -23

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.

KEEP OUT OF REACH OF CHILDREN 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

FIRST AID

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

Net Content:

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.

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.

231SP-0112*P

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.

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 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

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 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.

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

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Pecans	Aphids, Mites, Leafhoppers	0.66 pt.	21
(REI = 48 hrs.)	SPECIFIC DIRECTIONS: Do not use air applicat	ion. Do not graze livestock in	treated groves

USE RESTRICTIONS: Do not apply more than 0.33 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

Crop	Pest Controlled	Rate Per Acre	(Days)
Cherries (Preharvest) - ID,	Aphids, Cherry fruit flies, Mites	2.66 pts. (max.)	21
MT, OR, UT and WA only (REI = 10 days)*	SPECIFIC DIRECTIONS: Dilute Application 1 pt. per 100 gallons of water when inse pts. in minimum 50 gals. of water. On mature Sweet and Tart cherries, use using concentrated sprays to avoid fruit Ranier species). Make an application wit application should be made in late May apply when trees or substantial numbers not graze livestock in treated orchards.	2 pts. per acre. Precautions shou marking and injury on sensitive v thin 7 days of adult fly emergence or early June when fruits are sma	e Application: 2 Id be taken whe arieties (such as in the area. This ill in size. Do not

USE RESTRICTIONS: Do not apply more than 1.33 lbs. a.i. (2.66 pts. of this product) per acre per application. Do not apply more than 1.33 lbs. a.i. (2.66 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.

Cherries	Aphids, Cherry fruit flies, Mites	2.66 pts. (max.)	-
(Postharvest) – ID, MT, OR, UT and WA only (REI = 10 days)*	SPECIFIC DIRECTIONS: Dilute application Concentrate application: 2 pts. in mining Make an application at a minimum of 7 decision is made not to harvest due to market conditions. For best results, ma not apply when trees or substantial num Do not graze livestock in treated orcha pest population is high.	num 50 gallons of water. days after final harvest or apply in to poor fruit quality, a light crop ke an application when fruit harder abers of weeds in the treatment are	cases where a or unfavorable as or drops. Do a are in bloom.

USE RESTRICTIONS: Do not apply more than 1.33 lbs. a.i. (2.66 pts. of this product) per acre per application. Do not apply more than 1.33 lbs. a.i. (2.66 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.

Grapefruit,	Pest Controlled	Rate Per Acre	PHI (Days)
Kumquats,	Aphids, Mites (except Rust), Psyllid, Thrips, Whiteflies	2 pts. (max.)	15
Lemons, Limes, Oranges, Pummelos, Tangelos, Tangerines (REI = 10 days)*	SPECIFIC DIRECTIONS: Ground Applicat dilute application. Mix 1 pt. in 50 to orchard foliage is dense. Apply as a th Application (Mist): Apply 2 pts. per act foliage. Air Application: Apply 2 pts. per Do not apply when trees or substantial in not graze livestock in treated orchard.	100 gallons of water if infestat orough distribution coverage spre in sufficient water to provid acre in 5 to 10 gals. of water.	ion is heavy or i pray. Concentrate e full coverage o
	Scales (except Black or Snow)	2 pts. (max.)	15
more than 1 lb. (2 p	application. Mix 1.5 pts. in 50 to 100 gas foliage is dense. Apply as a thorough dist (Mist): 2 pts. per acre in sufficient water Do not apply when trees or substantial in not graze livestock in treated orchards. Do not apply more than 1 lb. a.i. (2 pts. of tts. of this product) per acre per year. Do not	ribution coverage spray. Concent to provide full coverage of foliage numbers of weeds in the orchard his product) per acre per applicate apply to Citrus seedlings.	trate Application ge. d are in bloom. Do tion. Do not appl
*The REI is 10 days, less than 25 inches	however, the REI is increased to 14 days in oper year.	outdoor areas where the average	e annual rainfall is
Citrus,	Thrips	See "SPECIFIC DIRECTIONS"	15
Lemons,	necessary to achieve adequate coverage		

*The REI is 10 days, however, the REI is increased to 14 days in outdoor areas where the average annual rainfall is

application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year.

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 100 gals. of trees begin to bear fruit. Soil Drench (Trees 1 to 3 year furrow or basin around the base of the tree. Apply appears. Do not apply to trees that will bear fruit within Do not apply when trees or substantial numbers of we not graze livestock in treated orchards.	rs old): 2 pts. per a when insect injury n 1 year.	cre. Apply in the to new growth
more than 1 lb. (2 pts	Do not apply more than 1 lb. a.i. (2 pts. of this product) per of this product) per acre per year. DO NOT apply by air. owever, the REI is increased to 14 days in outdoor areas for year.		
Melons - Except Watermelons (REI = 48 hours)	Aphids, Leafhoppers, Leafminers, Maggots, Thrips	1 pt.	3 .
USE RESTRICTIONS:	Do not apply more than 0.5 lb. a.i. (1 pt. of this produc	t) per acre per app	lication. Do not
apply more than 1 lb.	a.i. (2 pts. of this product) per acre per year. Retreatmen	t interval is 7 days.	St. Aug.
Pears (REI = 10 days)*	Aphids, Leafhoppers, Mites (except Rust), Pear psyllas	2 pts. (max.)	28
LICE DESTRICTIONS.	Application: 1 to 2 pts. per acre in 5 to 10 gals. of water Use up to 2 pts. of this product per acre. Do not apply of weeds in the orchard are in bloom. Do not graze live to not apply more than 1 lb. a.i. (2 pts. of this product) pe	when trees or subs stock in treated orc	hards.
more than 1 lb. a.i. (2	pts. of this product) per acre per year. owever, the REI is increased to 14 days in outdoor areas v		
	i jedi.	1 2 1 / 1	
Pears - Non-bearing	Aphids, Leafhoppers, Mites (except Rust), Pear psyllas	2 pts. (max.)	
Pears – Non-bearing (REI = 10 days)*	Aphids, Leafhoppers, Mites (except Rust), Pear psyllas SPECIFIC DIRECTIONS: Use 0.5 to 1 pt. per 100 gals. of w to 1 pt. of this product per 100 gallons of water. Do not orchards. Do not apply when trees or substantial numb are in bloom.	vater as dilute appli graze livestock in t ers of weeds in the	reated orchard (grove)
Pears – Non-bearing (REI = 10 days)* USE RESTRICTIONS: E more than 1 lb. a.i. (2 *The REI is 10 days, h	Aphids, Leafhoppers, Mites (except Rust), Pear psyllas SPECIFIC DIRECTIONS: Use 0.5 to 1 pt. per 100 gals. of v to 1 pt. of this product per 100 gallons of water. Do not orchards. Do not apply when trees or substantial numb are in bloom. To not apply more than 1 lb. a.i. (2 pts. of this product) pepts. of this product) per acre per year. To owever, the REI is increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdo	vater as dilute appli graze livestock in t ers of weeds in the er acre per application	reated orchard (grove) on. Do not apply
Pears – Non-bearing (REI = 10 days)* USE RESTRICTIONS: Dispersion of the control	Aphids, Leafhoppers, Mites (except Rust), Pear psyllas SPECIFIC DIRECTIONS: Use 0.5 to 1 pt. per 100 gals. of v to 1 pt. of this product per 100 gallons of water. Do not orchards. Do not apply when trees or substantial numb are in bloom. To not apply more than 1 lb. a.i. (2 pts. of this product) pepts. of this product) per acre per year. To owever, the REI is increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdoor areas of the substantial increased to 14 days in outdo	vater as dilute appli graze livestock in t ers of weeds in the er acre per application	reated orchard (grove) on. Do not apply

VEGETABLE CROPS

Crop	cation rates is specified, apply the higher rate when pest Controlled	Rate Per Acre	PHI (Days)
Asparagus –	Aphids, Asparagus beetles	1 pt.	180
Except AZ & CA (REI = 48 hours)	SPECIFIC DIRECTIONS: Apply after the last harvest a maximum of 2 pts. per acre per year. Do not apply le		
	Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per year.		
Beans including Fresh, Lima, Snap	Aphids, Bean leaf beetles, Grasshoppers, Leafhoppe Leafminers, Lygus bugs, Mexican bean beetles, Mite		0
and Dry beans (excludes Cowpeas) (REI = 48 hours)	SPECIFIC DIRECTIONS: Do not feed treated vines. Do to be treated when crops or weeds are in bloom.	o not apply if bees are	e visiting the are
	Do not apply more than 0.5 lb. a.i. (1 pt. of this pro- a.i. (2 pts. of this product) per acre per year. Retreatn		
Broccoli, Cauliflower (REI = 48 hours)*	Aphids	0.5 to 1 pt.	7
apply more than 1.5 l	Do not apply more than 0.5 lb. a.i. (1 pt. of this probs. a.i. (3 pts. of this product) per acre per year. Retreshowever, the REI is increased to 72 hours in outdoor a per year.	atment interval is 7 da	ays.
Brussels sprouts –	Aphids	1 pt.	10
CA Only (REI = 48 hours)*	SPECIFIC DIRECTIONS: Apply in a minimum of 50 gal equipment at 7-day intervals. Do not graze livestock		
is less than 25 inches Celery	however, the REI is increased to 72 hours in outdoor a per year. Carmine mites, Leafminers, Two-spotted spider mite		7
(REI = 48 hours)			
	o not apply more than 0.5 lb. a.i. (1 pt. of this product bs. a.i. (3 pts. of this product) per acre per year. Retre	경기를 들어 있는 사람들이 얼마나 그 아니라는 사람이 없다.	
Endive (Escarole), Leaf lettuce, Swiss chard (REI = 48 hours)	Aphids, Leafhoppers, Leafminers	0.5 pt.	14
	o not apply more than 0.25 lb. a.i. (0.5 pt. of this prod lb. a.i. (1.5 pts. of this product) per acre per year. Ret		
Garbanzo beans (REI = 48 hours)	Aphids, Grasshoppers, Leafhoppers, Leafminers, Lyg bugs, Mites		0
	SPECIFIC DIRECTIONS: Do not feed treated vines. Do to be treated when crops or weeds are in bloom.	not apply if bees are	visiting the area
	o not apply more than 0.5 lb. a.i. (1 pt. of this product a.i. (2 pts. of this product) per acre per year. Retreatm		
Kale, Mustard	Aphids, Leafhoppers, Leafminers	0.5 pt.	14
greens (REI = 48 hours)	SPECIFIC DIRECTIONS: Apply in a minimum of 50 gal equipment at 7-day intervals. Do not graze livestock	s. of water per acre b	5.5
USE RESTRICTIONS: D	o not apply more than 0.25 lb. a.i. (0.5 pt. of this prod b. a.i. (1 pt. of this product) per acre per year. Retreati	uct) per acre per app	lication. Do not

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 graze treated plants. Do not apply if bees are visiting the areas to be treated when crops or weeds are in bloom.				
	Lygus bugs	1 pt.	14		
	SPECIFIC DIRECTIONS: Do not feed or go the areas to be treated when crops or	weeds are in bloom.			
	Do not apply more than 0.5 lb. a.i. (1 pt. o. a.i. (2 pts. of this product) per acre per		n. Do not		
Lentils - WA Only	Aphids, Lygus bugs	0.25 to 1 pt.	14		
	1 lb. a.i. (2 pts. of this product) per acrevines. Note: CHEMIGATION – Do not apply the poor apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per acre.	nrough any type of irrigation system. of this product) per acre per applicatio			
Peas	o. a.i. (2 pts. of this product) per acre per Aphids	0.3 pt.	0		
(REI = 48 hours)	Aprillus	υ.5 μι.	. 0		
	more than 1 application per growing s	or graze when a mobile viner is used. I eason. Do not apply if bees are visiting			
		eason. Do not apply if bees are visiting a bloom. Do not apply more than 0.16 on. Do not apply more than 0.16 lb. a.i.	the areas to b. a.i. (0.3 pt		
	more than 1 application per growing s be treated when crops or weeds are ir of this product) per acre per application	eason. Do not apply if bees are visiting a bloom. Do not apply more than 0.16 on. Do not apply more than 0.16 lb. a.i.	the areas to b. a.i. (0.3 pt		
	more than 1 application per growing s be treated when crops or weeds are ir of this product) per acre per application this product) per acre per year. Not fo	eason. Do not apply if bees are visiting a bloom. Do not apply more than 0.16 in. Do not apply more than 0.16 ib. a.i. r use on Field peas. 0.3 pt. graze hay within 21 days after last appl or graze when a mobile viner is used. I eason. Do not apply if bees are visiting a bloom. Do not apply more than 0.16 ib. a.i.	the areas to lb. a.i. (0.3 pt (0.3 pt. of 0 ication when Do not make the areas to lb. a.i. (0.3 pt		
Dry Peas - ID, OR and WA only	more than 1 application per growing s be treated when crops or weeds are ir of this product) per acre per application this product) per acre per year. Not fo Lygus bugs SPECIFIC DIRECTIONS: Do not feed or g a stationary viner is used. Do not feed more than 1 application per growing s be treated when crops or weeds are ir of this product) per acre per application.	eason. Do not apply if bees are visiting a bloom. Do not apply more than 0.16 in. Do not apply more than 0.16 ib. a.i. r use on Field peas. 0.3 pt. graze hay within 21 days after last appl or graze when a mobile viner is used. I eason. Do not apply if bees are visiting a bloom. Do not apply more than 0.16 ib. a.i.	the areas to b. a.i. (0.3 pt. (0.3 pt. of 0 ication when Do not make the areas to b. a.i. (0.3 pt.		

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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 volumer acre by ground or air application. Do not exceed to acre per season. Allow at least 7 days between application cover crops in treated areas. Note: CHEMIGATION – Do not apply through any type of this product is highly toxic to bees exposed to direct the crops or weeds. Do not apply this product to blooming prebloom or postbloom spray only. Not for use on Field	0.5 lb. a.i. (1 pt. of this lications. Do not graze of irrigation system. reatment or residues or Austrian Winter peas.	product) pe livestock of blooming
Succulent Peas	Aphids, Leafminers, Thrips	0.33 pt.	0
(with pod) - CA Only (REI = 48 hours) SPECIFIC DIRECTIONS: Multiple applications may be made at 14-day exceed 0.5 lb. a.i. (1 pt. of this product) per acre per season. Do not applications per growing season. Not for use on Field peas.		ason. Do not make mo	
Peppers (REI = 48 hours)	Aphids, Leafhoppers, Maggots	0.5 to 0.66 pt.	0
USE RESTRICTIONS:	Oo not apply more than 0.33 lb. a.i. (0.66 pt. of this product in lbs. a.i. (3.3 pts. of this product) per acre per year. Retre		
apply more than 1.65			
apply more than 1.65 Potatoes (REI = 48 hours)	Aphids, Grasshoppers, Leafhoppers, Leafminers	0.5 to 1 pt.	0
Potatoes (REI = 48 hours) USE RESTRICTIONS: [per acre per application	
Potatoes (REI = 48 hours) USE RESTRICTIONS: [Aphids, Grasshoppers, Leafhoppers, Leafminers Do not apply more than 0.5 lb. a.i. (1 pt. of this product) p	per acre per application	
Potatoes (REI = 48 hours) USE RESTRICTIONS: [apply more than 1 lb. Tomatoes (REI = 48 hours) USE RESTRICTIONS: [Aphids, Grasshoppers, Leafhoppers, Leafminers Do not apply more than 0.5 lb. a.i. (1 pt. of this product) pa.i. (2 pts. of this product) per acre per year. Retreatment	per acre per application nt interval is 7 days. 0.5 to 1 pt. per acre per application	. Do not

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 day application per crop cycle or cutting. Effective on apply if bees are visiting the area to be treated when	ly on cutting to which	applied. Do no
apply more than 0.5	Do not apply more than 0.5 lb. a.i. (1 pt. of this problem a.i. (1 pt. of this product) per crop cycle or cutty more than 3 times per year. Minimum retreatment in	ting. Do not apply more	
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		
	Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per season. Retre		
Cotton - Except AZ	Aphids, Fleahoppers, Mites, Plant bugs, Thrips	0.25 to 1 pt.	14
and CA (REI = 48 hours)	SPECIFIC DIRECTIONS: When water is used for dilut intervals closer than 14 days. When refined vegeta repeat applications at intervals closer than 40 day	ble oil is used for dilution	on, do not make
	livestock on treated fields.		
	Lygus bugs	0.5 pt.	14
LISE RESTRICTIONS	Lygus bugs SPECIFIC DIRECTIONS: When water is used for dilut intervals closer than 14 days. When refined vegeta repeat applications at intervals closer than 40 day livestock on treated fields.	ion, do not make repea ble oil is used for dilutions. Do not feed treated	t applications a on, do not make forage or graze
	Lygus bugs SPECIFIC DIRECTIONS: When water is used for dilut intervals closer than 14 days. When refined vegeta repeat applications at intervals closer than 40 day livestock on treated fields. Do not apply more than 0.5 lb. a.i. (1 pt. of this pro	tion, do not make repeat ble oil is used for dilutions. Do not feed treated boduct) per acre per app	t applications a on, do not make forage or graze lication. Do no
	Lygus bugs SPECIFIC DIRECTIONS: When water is used for dilut intervals closer than 14 days. When refined vegeta repeat applications at intervals closer than 40 day livestock on treated fields. Do not apply more than 0.5 lb. a.i. (1 pt. of this pro. a.i. (2 pts. of this product) per acre per season. Retree Aphids, Banks grass mites (except Trans Pecos area of TX), Bean beetles, Corn rootworms (adults), Fleahoppers, Thrips, Two-spotted	tion, do not make repeat ble oil is used for dilutions. Do not feed treated boduct) per acre per app	t applications a on, do not make forage or graze lication. Do no
apply more than 1 lb Corn - Field, Pop	Lygus bugs SPECIFIC DIRECTIONS: When water is used for dilut intervals closer than 14 days. When refined vegeta repeat applications at intervals closer than 40 day livestock on treated fields. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per season. Retree 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 a acre. Air Application: Apply above rates in 1 or mor Do not feed or graze within 14 days of last application.	cion, do not make repea ble oil is used for dilutions. Do not feed treated oduct) per acre per apple eatment interval is 14 da 0.66 to 1 pt.	t applications a on, do not make forage or graze lication. Do no tys. 28 (Grain) 14 (Forage) als. of water pe
apply more than 1 lb Corn - Field, Pop	Lygus bugs SPECIFIC DIRECTIONS: When water is used for dilut intervals closer than 14 days. When refined vegeta repeat applications at intervals closer than 40 day livestock on treated fields. Do not apply more than 0.5 lb. a.i. (1 pt. of this product). a.i. (2 pts. of this product) per acre per season. Retree 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 a acre. Air Application: Apply above rates in 1 or more	cion, do not make repea ble oil is used for dilutions. Do not feed treated oduct) per acre per apple eatment interval is 14 da 0.66 to 1 pt.	t applications a on, do not make forage or graze lication. Do no tys. 28 (Grain) 14 (Forage) als. of water pe

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

(continued)

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Safflower - AZ and CA Only (REI = 48 hours)	Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips	0.5 to 1 pt.	14
USE RESTRICTIONS:	Do not apply more than 0.5 lb. a.i. (1 pt. of this product) p	per acre per application	. Do not
apply more than 0.5	lb. a.i. (1 pt. of this product) per acre per year.		
Sorghum (Milo) (REI = 48 hours)	Aphids (Green bugs)	0.5 to 1 pt.	28
	SPECIFIC DIRECTIONS: Ground Application : Apply above acre. Air Application : Apply above rates in 1 or more g Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area.	als. 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: Ground Application : Apply above acre. Air Application : Apply above rates in 1 or more g		of water pe
	Do not feed or graze Milo within 28 days of last ap		ly during th
	- 제 [40 집] 다른 이렇게 하셨다면 됐다면 하다면 되었다면 되었다면 하는 이렇게 되었다면 되었다면 하는데	0.25 to 5 pt. of water per acre. Air	28 Application
	Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Sorghum midge Ground Application: Apply above rate in 25 to 40 gals Apply above rates in 1 or more gals. of water per acre.	0.25 to 5 pt. of water per acre. Air oplication. Do not apport acre per application.	28 Application
	Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Sorghum midge Ground Application: Apply above rate in 25 to 40 gals Apply above rates in 1 or more gals. of water per acre. Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) products are soldered as a pollen-shed period if bees are visiting the area.	0.25 to 5 pt. of water per acre. Air oplication. Do not apport acre per application.	28 Application
apply more than 1 lb Soybeans	Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Sorghum midge Ground Application: Apply above rate in 25 to 40 gals Apply above rates in 1 or more gals. of water per acre. Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) po. a.i. (2 pts. of this product) per acre per year. Retreatment Alfalfa loopers, Aphids, Bean leaf beetles, Leafhoppers, Mexican bean beetles, Spider mites,	0.25 to 5 pt. of water per acre. Air oplication. Do not apport acre per application at interval is 7 days. 1 pt. re rate in 25 to 40 gals.	28 Application ly during th . Do not 21 of water per
apply more than 1 lb Soybeans	Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Sorghum midge Ground Application: Apply above rate in 25 to 40 gals Apply above rates in 1 or more gals. of water per acre. Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) po. a.i. (2 pts. of this product) per acre per year. Retreatment Alfalfa loopers, Aphids, Bean leaf beetles, Leafhoppers, Mexican bean beetles, Spider mites, Threecornered alfalfa hoppers SPECIFIC DIRECTIONS: Ground Application: Apply above acre. Air Application: Apply above rate in a minimum of	0.25 to 5 pt. of water per acre. Air oplication. Do not apport acre per application at interval is 7 days. 1 pt. re rate in 25 to 40 gals.	28 Application ly during th . Do not 21 of water per
apply more than 1 lb Soybeans	Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Sorghum midge Ground Application: Apply above rate in 25 to 40 gals Apply above rates in 1 or more gals. of water per acre. Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) po. a.i. (2 pts. of this product) per acre per year. Retreatment Alfalfa loopers, Aphids, Bean leaf beetles, Leafhoppers, Mexican bean beetles, Spider mites, Threecornered alfalfa hoppers SPECIFIC DIRECTIONS: Ground Application: Apply above acre. Air Application: Apply above rate in a minimum of Do not feed or graze within 5 days of last application.	0.25 to 5 pt. c. of water per acre. Air oplication. Do not apported acre per application at interval is 7 days. 1 pt. ce rate in 25 to 40 gals. of 1 gal. of water per acre per acre per acre per acre per acre per acre in 25 to 40 gals. of 1 gal. of water per acre acre per acre in 25 to 40 gals.	28 Application ly during th Do not 21 of water per re. 21 of water per
apply more than 1 lb Soybeans (REI = 48 hours)	Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Sorghum midge Ground Application: Apply above rate in 25 to 40 gals Apply above rates in 1 or more gals. of water per acre. Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) po. a.i. (2 pts. of this product) per acre per year. Retreatment Alfalfa loopers, Aphids, Bean leaf beetles, Leafhoppers, Mexican bean beetles, Spider mites, Threecornered alfalfa hoppers SPECIFIC DIRECTIONS: Ground Application: Apply above acre. Air Application: Apply above rate in a minimum of Crasshoppers SPECIFIC DIRECTIONS: Ground Application: Apply above acre. Air Application: Apply above rate in a minimum of Crasshoppers	0.25 to 5 pt. of water per acre. Air oplication. Do not apport acre per application at interval is 7 days. 1 pt. re rate in 25 to 40 gals. of 1 gal. of water per acre per acre per acre per acre in 25 to 40 gals. of 1 gal. of water per acre in 25 to 40 gals. of 1 gal. of water per acre in 25 to 40 gals. of 1 gal. of water per acre in 25 to 40 gals.	28 Application ly during th Do not 21 of water per re. 21 of water per re.
apply more than 1 lb Soybeans (REI = 48 hours)	Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Sorghum midge Ground Application: Apply above rate in 25 to 40 gals Apply above rates in 1 or more gals. of water per acre. Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) po. a.i. (2 pts. of this product) per acre per year. Retreatment Alfalfa loopers, Aphids, Bean leaf beetles, Leafhoppers, Mexican bean beetles, Spider mites, Threecornered alfalfa hoppers SPECIFIC DIRECTIONS: Ground Application: Apply above acre. Air Application: Apply above rate in a minimum of Do not feed or graze within 5 days of last application. Grasshoppers SPECIFIC DIRECTIONS: Ground Application: Apply above acre. Air Application: Apply above rate in a minimum of Do not feed or graze within 5 days of last application. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) po. a.i. (2 pts. of this product) per acre per year. Retreatment	0.25 to 5 pt. of water per acre. Air oplication. Do not apport acre per application interval is 7 days. 1 pt. re rate in 25 to 40 gals. of 1 gal. of water per acre per application per acre per application per acre per application per acre per application	28 Application ly during the Do not 21 of water perece. 21 of water perece.
apply more than 1 lb Soybeans (REI = 48 hours) USE RESTRICTIONS: apply more than 1 lb Triticale, Wheat	Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Sorghum midge Ground Application: Apply above rate in 25 to 40 gals Apply above rates in 1 or more gals. of water per acre. Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) po. a.i. (2 pts. of this product) per acre per year. Retreatment Alfalfa loopers, Aphids, Bean leaf beetles, Leafhoppers, Mexican bean beetles, Spider mites, Threecornered alfalfa hoppers SPECIFIC DIRECTIONS: Ground Application: Apply above acre. Air Application: Apply above rate in a minimum of Do not feed or graze within 5 days of last application. Grasshoppers SPECIFIC DIRECTIONS: Ground Application: Apply above acre. Air Application: Apply above rate in a minimum of Do not feed or graze within 5 days of last application. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) ponot feed or graze within 5 days of last application.	0.25 to 5 pt. of water per acre. Air oplication. Do not apport acre per application interval is 7 days. 1 pt. re rate in 25 to 40 gals. of 1 gal. of water per acre per application per acre per application per acre per application per acre per application	28 Application ly during the Do not 21 of water pere. 21 of water pere.
apply more than 1 lb Soybeans (REI = 48 hours)	Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Sorghum midge Ground Application: Apply above rate in 25 to 40 gals Apply above rates in 1 or more gals. of water per acre. Do not feed or graze Milo within 28 days of last appollen-shed period if bees are visiting the area. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) po. a.i. (2 pts. of this product) per acre per year. Retreatment Alfalfa loopers, Aphids, Bean leaf beetles, Leafhoppers, Mexican bean beetles, Spider mites, Threecornered alfalfa hoppers SPECIFIC DIRECTIONS: Ground Application: Apply above acre. Air Application: Apply above rate in a minimum of Do not feed or graze within 5 days of last application. Grasshoppers SPECIFIC DIRECTIONS: Ground Application: Apply above acre. Air Application: Apply above rate in a minimum of Do not feed or graze within 5 days of last application. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) po. a.i. (2 pts. of this product) per acre per year. Retreatment	0.25 to 5 pt. c. of water per acre. Air oplication. Do not apporter acre per application interval is 7 days. 1 pt. 2 re rate in 25 to 40 gals. of 1 gal. of water per acre per application interval is 7 days.	28 Application ly during the Do not 21 of water pere. 21 of water pere Do not

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 bloom. Do not feed or graze livestock in treated crop days of application.		
apply more than 0.	Do not apply more than 0.5 lb. a.i. (1 pt. of this proc 5 lb. a.i. (1 pt. of this product) per crop cycle or cutting y more than 3 times per year. Minimum retreatment into	ng. Do not apply more	
	Aphids, Plant bugs, Thrips, Winter grain mites,	0.5 to 0.66 pt.	14
Grass grown for			14

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 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. 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 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. of water)	
	SPECIFIC DIRECTIONS: For leafminers, apply when leaves 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, use 2 fl. ozs. in 1 gallon of water for plants up to 6 inches tall. Increase rate proportionately for larger plants. Apply as a soil drench around the base of plants in early Spring.		
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 thoroughly 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	
	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 approximately 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 application information.		
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)	
Arborvitae	Aphids, Bagworms, Mites	2 tsps. per gal. of water (3.5 fl. ozs. per 10 gals. of water)	
	SPECIFIC DIRECTIONS: Make thorough coverage application when cones are closed and pendant. Use hydraulic or backpack sprayer.		
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 sprayer with a handheld spray gun to thoroughly wet trunk and limbs on front and back of tree. Mix up to 2 tsps. per gallon (3.5 fl. ozs. per 10 gallons) of water if insect pest population is high.		
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)	

(continuation)

Plant	Pest Controlled	Rate of Application	
Hackberry	Hackberry budgall psyllid, 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 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 Iris	Honeysuckle aphid	Soil Injection: 1 part to 3 parts dilution	
	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	
		(3.5 fl. ozs. per 10 gals. of water)	
	SPECIFIC DIRECTIONS: For borer control, spray when new leaves are 5 to 6 inches tall.		
Oak	Golden oak scale	2 tsps. per gal. of water (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 spralleaves 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 diameter. Make insertions within dripline of tree. For Spindle gall midge and Tip moth, apply in mid- to late-Spring. For Pinyon borer, make application in early Summer.		

(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 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:

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.

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WARRANTY—CONDITIONS OF SALE

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

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