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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

APR 8 2009

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

Subject: DREXEL DIMETHOATE 4EC

EPA Reg. No. 19713-231

Notification Application Dated March 16, 2009.

Dear Ms. Chan:

The Agency has received your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated March 16, 2009, for the product Drexel Dimethoate 4EC, EPA Reg. No. 19713-231. The Registration Division (RD) has reviewed this request and finds that the actions requested fall within the scopes of PR Notices 98-10 and 2007-4. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6406.

Sincerely,

William W. Jacobs

Insecticide-Rodenticide Branch

Registration Division (7505P)

Office of Pesticide Programs

Please read instructions on i	everse before compl. / form.	. Form	Approved	R No. 2070-00	7/(3 180. Approvel expires 2-28-
\$EPA	United States Environmental Protection Washington, DC 20	on Agency	Reg	jistration endment	OPP Identifier Number
	Application	on for Pesticide - Se	ection I		- <u> </u>
1. Company/Product Number 19713-231		2. EPA Product N Venus Eagle	1anager	3.1	Proposed Classification
4. Company/Product (Name) DREXEL DIMETHOAT		PM# 1 / Insecticide-	-Rodenticide	Branch	
5. Name and Address of App Drexel Chemical Company P.O. Box 13327 Memphis, TN 38113-0327	olicant (Include ZIP Code) is a new address	(b)(i), my producto: EPA Reg. No.	ct is similar o	r identical in o	th FIFRA Section 3(c)(3) composition and labeling
0.000. 11 1.110		Product Name Section - II	e		
Notification - Explain Explanation: Use addition	below. al page(s) if necessary. (For section 231SP-0309*Pending) to update the	Agency "Me Too Other - E	nted labels in reletter dated " Application. Explain below. corage and dispo	NOT	FICATION R 6 8 2009 per PR Notice 2007-4. Details
		Section - III			
1. Material This Product Will	Be Packaged In:	Occion in	·	 	
Child-Resistant Packaging Yes No Certification must be submitted	Unit Packaging Yes No If "Yes" No. per Unit Packaging wgt. container	Water Soluble Packaging Yes ✓ No If "Yes" No. por Package wgt contain	er	ype of Containe Metal Plastic Glass Paper Other	
3. Location of Net Contents I Label Contents I	1	tail Container 10, 15, 30, 55 Gal; Bulk, Tote	1	of Label Direct n the label	tions
6. Manner in Which Label is	Affixed to Product J Lithog Paper Stence Lithog Paper Lithog Li	graph Ot glued iled	ther	· .	
		Section - IV			
1. Contact Point (Complete	items directly below for identification	on of individual to be contacte	ed, if necessary	, to process th	is application.)
Name LUZ G CHAN		Title REGISTRATION MANAG	ER	1 '	74-4370 (
	Certifications have made on this form and y knowlinglly false or misleading state.	all attachments thereto are t			6. Date Application Received (Stamped)

REGISTRATION MANAGER

March 16, 2009

5. Date

2. Signature

4. Typed Name

LUZ G CHAN

Cuy Co Chan 2009.03.16 11:07:23-05'00'



March 16, 2009

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Rm S-4900, One Potomac Yard
2777 S Crystal Drive
Arlington, VA 22202

Re: Submission of Revised Label by Notification per PR Notices 98-10 and 2007-4 DREXEL DIMETHOATE 4EC (EPA Reg. No. 19713-231)

Herewith:

- 1. Completed EPA Form 8570-1
- 2. One (1) copy of the label with the following revisions:
 - i) On page 7, under the section 'Ornamental Plants Grown in Outdoor Nurseries Only', the first statement found on the second paragraph, "This product is generally effective in controlling aphids, thrips, leafminers, scales, leafhoppers and mites." was revised to read "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."

On the third paragraph, the first sentence was revised to read "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."

Also, the sentence was revised to read, "Some species such as River Birch, Prunus, ornamental Cherry and Plum, Hawthorne, 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."

The above changes on page 7 is being made to be consistent with the competitor label, EPA Reg. No. 34704-207, accepted by the Agency on October 10, 2008.

- ii) The storage and disposal statements were revised per PR Notice 2007-4. The verbiage was adopted exactly from Appendices B and C of PR Notice 2007-4.
- iii) Under 'Warranty', the first sentence was revised to read "The *Directions* for Use......". The word "Recommendations" was changed to "Directions"

I highlighted the changes for easy reference.

3. Certification Statements

lf you have questions/clarification regarding this submission, I can be reached at (901) 774-4370 or e-က်ချဲပ Lchan@drexchem.com. Thank you.

Respectfully yours,
FOR DREXEL CHEMICAL COMPANY

Luz G Chan Registration Manager

1700 Channel Avenue • Post Office Box 13327 • Memphis, Tennessee 38113-0327 Phone: (901) 774-4370 • Fax: (901) 774-4666 • E-Mail: info@drexchem.com • www.DrexChem.com



NOTIFICATION APR 0 8 2009

Dimethoate 4EC

Systemic Insecticide - Miticide

ACTIVE INGREDIENT:

Dimethoate*	43.5%
OTHER INGREDIENTS:	56.5%
TOTAL:	100.0%

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

WARNING / AVISO

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

See FIRST AID Below SHAKE WELL BEFORE USING

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

Net Content:

FIRST AID ORGANOPHOSPHATE

IF SWALLOWED:

- · Call a poison control center or doctor immediately for treatment advice.
- · Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- · Do not give anything by mouth to an unconscious or convulsing person.

IF IN EYES

- · Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- · Call a poison control center or doctor for treatment advice.

IF INHALED:

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

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

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

PRECAUTIONARY STATEMENTS

Hazards To Humans and Domestic Animals

WARNING: Harmful or fatal if swallowed. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes and clothing. May cause eye irritation. Use only with adequate ventilation. Do not contaminate food and feed products.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

(Continued)

PRECAUTIONARY STATEMENTS (Cont.)

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

See Engineering Controls for additional requirements and exceptions.

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

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

ENGINEERING CONTROLS

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

In addition, mixers and loaders must:

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

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

When handlers used closed systems or enclosed cabs in a manner that meets the requirements listed in the WPS for agricultural pesticides (40 CFR 170.240 (d)(4-5), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Manufactured By:

Drexel Chemical Company
P.O. BOX 13327, MEMPHIS, TN 38113-0327
Tel. (901) 774-4370
SINCE 1972

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.

CHEMICAL HAZARDS

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

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE), restricted entry interval and notification of workers. The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the restricted entry interval.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls worn over long-sleeve shirt and long pants, chemical-resistant gloves made of any waterproof material, chemical-resistant footwear plus socks, and chemical-resistant headgear for overhead exposure

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

BEFORE USING, READ WARNING STATEMENTS ON CONTAINER LABEL.

APPLICATION RESTRICTIONS

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

DO NOT use on crops grown in greenhouses.

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

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

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

For proper mixing, spray tank should be at least three-fourths filled with water before adding this product. Add tank mixing products in the following order: 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 prc with alkaline insecticides, fungicides, miticides and fertilizers should be applied promptly; however, alkaline materials such as Bordeaux mixture and lime should not be used. Tank mixing must be done in accordance with the more (most) restrictive of label limitations and use precautions for all products to be mixed. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibiting such mixing.

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

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

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

METHODS OF APPLICATION

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

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

<u>Dilute Application</u> – Ground Application For Field and Vegetable Crops: Apply specified rate in 20 to 60 gallons of water per acre unless otherwise stated. <u>Concentrate Application</u> – Ground Application: Apply specified rate in not

<u>Concentrate Application</u> – Ground Application: Apply specified rate in no less than 5 gallons of water per acre unless otherwise stated.

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

<u>High Pressure Handward Equipment</u> – When applications are made by high pressure handward 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. Orchard rates use equivalent per acre rate in not less than 10 gallons of water per acre. Do not use air application on Pecans.

Automatic flagging devices should be used whenever feasible.

REQUIREMENTS FOR REDUCING SPRAY DRIFT

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

- Use the largest droplet size consistent with acceptable efficacy. Formation
 of very small droplets may be minimized by appropriate nozzle selection, by
 orienting nozzles away from the air stream as much as possible, and by
 avoiding excessive spray boom pressure.
 - For groundboom and aerial applications, use medium or coarser spray nozzles according to ASAE 572 definition for standard nozzles or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles.
- 2. Make aerial or ground applications when the wind velocity favors on-target product deposition. Apply only when the wind speed is less than or equal to 10 mph. For all non-aerial applications, wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.
- 3. Do not make aerial or ground applications into areas of temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
- 4. Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures.
- 5. All aerial and ground application equipment must be properly mai trained and calibrated using appropriate carriers.
- 6. For groundboom applications, apply with nozzle height no more han 4 feet above the ground or crop canopy.
- 7. For airblast applications, turn off outward pointing nozzles at fow ends and when spraying the outer two rows. To minimize splay loss over the top in orchard applications, spray must be directed into the canopy.
- 8. For aerial applications, release spray at the howest 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 cappay.
- 9. For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The nuinimized 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 recommended amount of this product and any tank mixing products per acreage to be covered and needed quantity of water. On all crops, use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, pest problem and state of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues. Meter this product into the irrigation water uniformly during the period of operation. Do not overlap application. Follow recommended label rates, application timing, and other directions and use precautions for crop being treated. Continuous mild agitation of pesticide mixture may be needed to assure uniform application, particularly if the supply tank requires a number of hours to empty.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

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

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of the fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

SPRINKLER CHEMIGATION (FOLIAR SPRAY USES)

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

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

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops. Allow sufficient time for pesticide to be flushed through all lines before turning off irrigation water. Systems utilizing a pressurized water and pesticide injection system must meet 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 pes-

ticide injection pipeline mus

ain a functional, automatic, quick-closing check valve to prevent the flow of huid 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 hours)	SPECIFIC DIRECTIONS: Do i			

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	PHI (Days)
Cherries (Preharvest) – ID, MT, OR, UT and WA only (REI = 10 days)*	Aphids, Cherry fruit flies, Mites	Dilute Application: 0.5 to 1 pt. in a minimum of 100 gals. of water. Concentrate Application: 2 pts. in a minimum of 50 gallons of water per acre.	21
	rate when insect Sweet and Tart tions should be to avoid fruit ma (such as Raniet days of adult fly tion should be r fruits are small stantial number	ECTIONS: Use the higher ap tt pest population is high. On cherries, use 2 pts. per acre. taken when using concentra arking and injury on sensitive r species). Make an application emergence in the area. This made in late May or early Jun in size. Do not apply when the sof weeds in the treatment a graze livestock in treated orch	mature "Precau- ted sprays varieties on within 7 sapplica- ie when ees or sub- irea are in

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.

areas where the average annual rainfall is less than 25 inches per year.				
Cherries	Aphids,	Dilute Application: 0.5		
(Postharvest) -	Cherry fruit	to 1 pt. in a minimum of		
ID, MT, OR, UT	flies, Mites	100 gals. of water.		
and WA only	-	Concentrate Application:		
(REI = 10 days)*		2 pts. in a minimum of 50		
		gallons of water per acre.		
	minimum of 7 d	ECTIONS: Make an applicat ays after final harvest or app	ly in cases	
		in is made not to harvest due		

minimum of 7 days after final harvest or apply in cases where a decision is made not to harvest due to poor fruit quality, a light crop or unfavorable market conditions. For best results, make an application when fruit hardens or drops. Do not apply when trees or substantial numbers of weeds in the treatment area are in bloom. Do not graze livestock in treated orchards. Use the higher application rate when insect pest population is high.

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.

areas where the av	rerage annuai raii	maii is (95% (ngh) 25 inches pe	r year.
Grapefruit,	Aphids, Mites	Ground Application:	, 15
Kumquats,	(except Rust),	0.5 to 1 pt. in 50 to 100	ľ
Lemons, Limes,	Psyllid,	galszef ເທລູter for diluté 👝	<u>{</u>
Oranges,	Thrips,	application. Apply as ວ	1
Pummelos,	Whiteflies	thorough dictribution ୧૦५५	;
Tangelos,		erage, spray.	
Tangerines		Concertrate Application	` `
(REI = 10 days)*		(Mist): Apply 2 pts. per	·
		acre in sufficient water to.	
		provide full coverage ົບ [١,٠
		foliage.	1
		Air Application: Apply 2 '	ĺι
	i .	pts. per acre in 5 to 10 cc	L.
		gals. of water.	
	· ·	· · · · · · · · · · · · · · · · · · ·	(Continued)

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RUIT	CROPS	

Crop	Pest Controlled	Rate	PHI (Days)
Citrus – AZ & CA: Non-bearing and Nursery stock (REI = 10 days)*	Aphids, Thrips	Foliar Spray: 1 pt. per 100 gals. of water. Apply as necessary. May be applied in the year trees begin to bear fruit. Soil Drench (Trees 1 to 3 years old): 1 pt. per acre. Apply in the furrow or basin around the base of the tree. Apply when insect injury to new growth appears. Do not apply to trees that will bear fruit within 1 year.	
•	substantial num	ECTIONS: Do not apply when the solution of the solution of the orchard graze livestock in treated orch	are in

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. (2 pts. of this product) per acre per year. DO NOT apply by air.
*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.

arcas where the a	verage annual rui	mail is icos than 20 mones pe	or your.
Pears (REI = 10 days)*	Aphids Leafhoppers, Mites (except Rust), Pear psyllas	Ground Application: 0.5 to 1 pt. for dilute application. Apply as a thorough distribution coverage spray. Concentrate Application (Mist): 1 to 2 pts. per acre in sufficient water to provide full coverage of foliage. Air Application: 1 to 2 pts. per acre in 5 to 10 gals. of water.	28
	pest population not apply when	ECTIONS: Use the higher rat is high or if orchard foliage is trees or substantial numbers are in bloom. Do not graze lives.	s dense. Do of weeds

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.
*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.

arous milors are	rorago armiaaria	man 10 1000 than 20 monto p	or your.
Pears -	Aphids,	0.5 to 1 pt. per	
Non-bearing	Leafhoppers,	100 gals. of water	
(REI = 10 days)*	Mites (except	•	
	Rust), Pear		
	psyllas		
	rate when pest stock in treated	ECTIONS: Use the higher all population is high. Do not groorchards. Do not apply when bers of weeds in the orchard	aze live- n trees or

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.
*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.

FRUIT CROPS			
Crop	Pest Controlled	Rate	PHI (Days)
Grapefruit, Kumquats, Lemons, Limes, Oranges, Pummelos,	rate if infestation of the contraction of the contr	ECTIONS: Use the higher ap on is heavy or if orchard foliat hen trees or substantial num rchard are in bloom. Do not g I orchard.	ge is dense. bers of
Tangelos, Tangerines (REI = 10 days)* Cont.	Scales (except Black or Snow)	Ground Application: 0.5 to 1.5 pts. in 50 to 100 gals. for dilute application. Apply as a thorough distribution coverage spray. Concentrate Application (Mist): 2 pts. per acre in sufficient water to provide	15
USE RESTRICTIO	rate when inser liage is dense. numbers of we graze livestock	full coverage of foliage. ECTIONS: Use the higher aport pest population is high or it pond apply when trees or seds in the orchard are in block in treated orchards. If you more than 1 lb. a.i. (2 pts. or second apply when the percentage or the	f orchard fo- substantial om. Do not
uct) per acre per ap product) per acre per *The REI is 10 days	oplication. Do no er year. Do not a s, however, the f	t apply more than 1 lb. (2 pts apply to Citrus seedlings. REI is increased to 14 days in infall is less than 25 inches p	of this
Citrus, Grapefruit,	Thrips	See "SPECIFIC DIRECTIONS"	15
Oranges, Tangerines – AZ Only (REI = 10 days)*	this product in a achieve adequive adequipment user quired. Ground Applic dient (4 pts. of water per acre. days of last applications of dimethod time between 1 sunrise when a vail: 1) Before to treated has oper represent less in the orchard. are less than 2 chard to be treated has oper represent less in the orchard. All applications mented on Fornadvisor, farm or quired for custoprivate applications the process of the orchard is application of the orchard is application share strictions/Sp tom applicators ment's Phoenix Form 1080, do Form 1080 sha	ate is prohibited during any to chard from when that orchard til such time as there has been on the north side of the trees, on the side of the trees, on the side of the trees, on the ord the following cond the onset of petal fall, the ord on bloom present and these than 10% of the total anticipa 2) After the initiation of petal 5% of open bloom remaining ated. 3) It is between the cale	ary to type of ration re- active ingre- 20 gals. of within 4 time of day d is 10% en at least. Applica- eriod of before ititions pre- shard to be open bloom fall, there in the or- endar dates at be docu- est control normally re- , except that Application is of bloom time of the for "Label ate and cus- Depart- ompleted bel. Each an Monday

USE RESTRICTIONS: DO NOT apply by air. *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.

except when holidays intervene.

(Continued)

VEGETABLE CROPS

Where a range of application rates is recommended, apply the higher rate when

Сгор	Pest Controlled	Rate per Acre	PHI (Days)
Asparagus – Except AZ & CA (REI = 48 hours)	Aphids, Asparagus beetles SPECIFIC DIRECTIONS: Apply vest at no less than 14-day inter mum of 2 pts. per acre per year, than 180 days before harvest.	vals, up to	a maxi-
	: Do not apply more than 0.5 lb. a cation. Do not apply more than 1 year.	, ,	
Beans including Fresh, Lima, Snap and Dry beans (excludes Cowpeas) (REI = 48 hours)	Aphids, Bean leaf beetles, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mex- ican bean beetles, Mites SPECIFIC DIRECTIONS: Do no vines. Do not apply if bees are we be treated when crops or weeds	isiting the	area to
uct) per acre per appli	: Do not apply more than 0.5 lb. a cation. Do not apply more than 1 year. Retreatment interval is 14 da	i.i. (1 pt. of lb. a.i. (2 p	this prod
Broccoli, Cauliflower (REI = 48 hours)*	Aphids	0.5 to 1 pt.	7
this product) per acre *The REI is 48 hours,	cation. Do not apply more than 1. per year. Retreatment interval is 7 however, the REI is increased to age annual rainfall is less than 25 Aphids SPECIFIC DIRECTIONS: Apply gals of water per acre by ground day intervals. Do not graze lives fields. Do not apply by air.	days. 72 hours in inches per 1 pt. in a minim	outdoor year. 10 um of 50 t at 7-
this product) per acre *The REI is 48 hours, areas where the avera	cation. Do not apply more than 1. per year. Retreatment interval is 7 however, the REI is increased to age annual rainfall is less than 25	days. 72 hours in inches per	outdoor year.
Celery (REI = 48 hours)	Carmine mites, Leafminers, Twospotted spider mites	1 pt.	7
uct) per acre per appli	: Do not apply more than 0.5 lb. a cation. Do not apply more than 1. per year. Retreatment interval is 7	5 lbs. a.i. (
Endive (Escarole), Leaf lettuce, Swiss chard (REI = 48 hours)	Aphids, Leafhoppers, Leafminers	0.5 pt.	14
product) per acre per	: Do not apply more than 0.25 lb. application. Do not apply more that acre per year. Retreatment inter	n 0.75 lb.	a.i. (1.5
Garbanzo beans (REI = 48 hours)	Aphids, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mites SPECIFIC DIRECTIONS: Do no	0.5 to 1 pt.	0
	vines. Do not apply if bees are v be treated when crops or weeds	isiting the a	area to
uct) per acre per appli product) per acre per y	: Do not apply more than 0.5 lb. a cation. Do not apply more than 1 year. Retreatment interval is 14 day	b. a.i. (2 pt ays.	s. of this
Kale, Mustard greens (REI = 48 hours)	Aphids, Leafhoppers, Leafminers SPECIFIC DIRECTIONS: Apply gals of water per acre by ground day intervals. Do not graze lives fields. Do not apply by air.	l equipmen	t at 7-
LICE DECEDIOTIONS	: Do not apply more than 0.25 lb.	a i /0 6 nt	- 6 Ala: -

(Continued)

	Pest Controlled	Rate per Acre	PHI (Days)
Lentils (REI = 48 hours)	Aphids	0.33 to 1 pt.	14
	SPECIFIC DIRECTIONS: Do not treated plants. Do not apply if be areas to be treated when crops of the second	t feed or grees are visi	ting the
	bloom. Lygus bugs	1 pt.	14
	SPECIFIC DIRECTIONS: Do not treated plants. Do not apply if be areas to be treated when crops bloom.	es are visi	ting the
uct) per acre per app	S: Do not apply more than 0.5 lb. a dication. Do not apply more than 1 r year. Retreatment interval is 7 da	lb. a.i. (2 p	
Lentils – WA Only (REI = 48 hours)	Aphids, Lygus bugs	0.25 to 1 pt.	14
· ·	SPECIFIC DIRECTIONS: Apply appear. Repeat as needed. Do ror treated vines. Note: CHEMIGATION – Do not type of irrigation system.	not feed or apply throu	graze hay gh any
uct) per acre per app	S: Do not apply more than 0.5 lb. a dication. Do not apply more than 1 r year. Retreatment interval is 7 da	lb. a.i. (2 p	
Melons – Except Watermelons (REI = 48 hours)	Aphids, Leafhoppers, Leafminers, Maggots, Thrips	1 pt.	3 .
uct) per acre per app	S: Do not apply more than 0.5 lb. a lication. Do not apply more than 1 r year. Retreatment interval is 7 da	lb. a.i. (2 p	
Peas (REI = 48 hours)	Aphids SPECIFIC DIRECTIONS: Do no	0.3 pt.	. 0
	within 21 days after last applicat viner is used. Do not feed or graviner is used. Do not make more per growing season. Do not app the areas to be treated when crobloom. Do not apply more than (this product) per acre per applicamore than 0.16 lb. a.i. (0.3 pt. of acre per year. Not for use on Fie For Dry Peas in ID, OR, and WCHEMIGATION – Do not apply tririgation system. This product is highly toxic to be treatment or residues on blooming the per since the product is highly toxic to be treatment or residues on blooming the per since the period of the peri	ze when a at than 1 apply if bees a pps or week. 1.16 lb. a.i. ation. Do not this producted peas. A only: through any es exposed	mobile plication re visiting its are in (0.3 pt. of ot apply ot) per
	Do not apply this product to blood peas. Apply as a prebloom or polygus bugs SPECIFIC DIRECTIONS: Do not within 21 days after last application viner is used. Do not feed or graviner is used. Do not make more per growing season. Do not app	oming Austrostbloom sp 0.3 pt. of feed or grion when a ze when a to than 1 ap by if bees a	weeds. ian Winter iray only. 0 raze hay stationary mobile colication re visiting
	Do not apply this product to blood peas. Apply as a prebloom or polygus bugs SPECIFIC DIRECTIONS: Do not within 21 days after last applicate viner is used. Do not feed or graviner is used. Do not make more	oming Austrostbloom sp. 0.3 pt. of feed or grition when a ze when a a than 1 apply ly if bees a pps or weed 0.16 lb. a.i. ation. Do not this product.	weeds. ian Winter ray only. 0 raze hay stationary mobile olication re visiting ds are in (0.3 pt. of ot apply
Succulent Peas – ID. OR and WA	Do not apply this product to blood peas. Apply as a prebloom or polygus bugs SPECIFIC DIRECTIONS: Do not within 21 days after last application viner is used. Do not feed or graviner is used. Do not make more per growing season. Do not apply the areas to be treated when crobloom. Do not apply more than 0.16 lb. a.i. (0.3 pt. of the pease of	oming Austrostbloom sp. 0.3 pt. of feed or grition when a ze when a a than 1 apply ly if bees a pps or weed 0.16 lb. a.i. ation. Do not this product.	weeds. ian Winter ray only. 0 raze hay stationary mobile olication re visiting ds are in (0.3 pt. of ot apply

SPECIFIC DIRECTIONS: Apply in a minimum spray volume of not less than 5 gals, of water per acre by ground or air application. Do not exceed 0.5° ib. a.i. (1 pt. of this product) per acre per season. Allow at least 7 days between applications. Do not graze livestock on cover crops in treated areas.

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Crop	Pest Controlled	Rate per Acre	PHI (Days)
"	Note: CHEMIGATION – Do not type of irrigation system.	apply throu	igh any
•	This product is highly toxic to be		
	rect treatment or residues on blo		
	weeds. Do not apply this production Winter peas. Apply as a pro-		_
	bloom spray only. Not for use or		
Succulent Peas	Aphids, Leafminers, Thrips	0.33 pt.	0
(with pod) – CA Only (REI = 48 hours)	SPECIFIC DIRECTIONS: Multip be made at 14-day intervals. Do a.i. (1 pt. of this product) per act not make more than 3 applicatic son. Not for use on Field peas.	ole applicati not exceed e per seas	d 0.5 lb. on. Do
Peppers (REI = 48 hours)	Aphids, Leafminers, Maggots	0.5 to 0.66 pt	0
product) per acre per pts. of this product) pe	 Do not apply more than 0.33 lb. application. Do not apply more the er acre per year. Retreatment inter 	an 1.65 lbs. rval is 7 da	a.i. (3.3
Potatoes	Aphids, Grasshopper,	0.5 to	0
(REI = 48 hours)	Leafhoppers, Leafminers	1 pt.	
uct) per acre per appli	 Do not apply more than 0.5 lb. a cation. Do not apply more than 1 year. Retreatment interval is 7 day 	lb. a.i. (2 pt	
Tomatoes (REI = 48 hours)	Aphids, Leafhoppers, Leafminers	0.5 to 1 pt.	7
uct) per acre per appli	: Do not apply more than 0.5 lb. a cation. Do not apply more than 1 year. Retreatment interval is 6 da	lb. a.i. (2 pt	
Turnips – Greens, Roots (REI ≖ 48 hours)	Aphids, Leafhoppers, Leafminers	0.5 pt.	14
product per acre per a	Do not apply more than 0.25 lb. ipplication. Do not apply more that acre per year. Retreatment inter	n 1.75 lbs.	a.i. (3.5
Watermelons (REI = 48 hours)	Aphids, Leafhoppers, Leafminers, Maggots, Thrips	0.5 to 1 pt.	3

FIELD CROPS

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

Сгор	Pest Controlled	Rate per Acre	PHI (Days)
Alfalfa, Sainfoin (REI = 48 hours)	Aphids, Grasshoppers, Leafhoppers, Plant bugs (including Lygus), reduction of Alfalfa weevil larvae	0.5 to 1 pt.	10
	SPECIFIC DIRECTIONS: Do not days of harvest or pasturing. Matton per crop cycle or cutting. Efting to which applied. Do not applied wisiting the area to be treated whare in bloom.	ike only 1 a fective only ply if bees a	pplica- on cut- are
	c: Do not apply more than 0.5 lb. a ication. Do not apply more than 0. e or cutting.		
Cotton – AZ and CA Only (REI = 48 hours)	Black fleahoppers, Leafhop- pers, Plant bugs (including Lygus), Thrips	0.5 to 1 pt.	- 14
	SPECIFIC DIRECTIONS: Do not feed treated for- age or graze livestock in treated fields.		
uct) per acre per appl	Do not apply more than 0.5 lb. a cation. Do not apply more than 1 season. Retreatment interval is 14	lb. a.i. (2 pt	
Cotton – Except AZ and CA	Aphids, Fleahoppers, Mites, Plant bugs, Thrips	0.25 to 1 pt.	14
(REI = 48 hours)	SPECIFIC DIRECTIONS: When water is used for dilution, repeat applications should not be made at intervals closer than 14 days. When refined vegetable oil is used for dilution, repeat applications should not be made at intervals closer than 40 days. Do not feed treated forage or graze livestock on treated fields.		
		- (0	Continued)

FIELD CROPS

**	Pest Controlled	Rate per	PHI (Days)
	Controlled	Acre	(Days)
Cotton - Except AZ	Lygus bugs	0.5 pt.	14
and CA	SPECIFIC DIRECTIONS: When water is used for di- lution, repeat applications should not be made at in- tervals closer than 14 days. When refined vegetable oil is used for dilution, PHI is 40 days. Do not feed		
LIGE DESTRICTION	treated forage or graze livestock	on treated	l fields.
uct) per acre per app product) per acre per	S: Do not apply more than 0.5 lb. lication. Do not apply more than a season. Retreatment interval is	1 lb. a.i. (2 14 days.	ots. of this
Corn – Field, Pop (REI = 48 hours)	Aphids, Banks grass mites (except Trans Pecos area of TX), Bean beetles, Corn root- worms (adults), Fleahoppers,	0.66 to 1 pt.	28 (Grain) 14
	Thrips, Two-spotted spider mites SPECIFIC DIRECTIONS: Apply	25 000000	(Forage)
	feed or graze within 14 days of I not apply to Corn during the poll bees are visiting the area. Grou Apply above rate in 20 to 40 gal Air Application: Apply above ra	ast applica len-shed pe nd Applica s. of water	tion. Do eriod if ation: per acre.
	of water per acre. Grasshoppers	1 pt.	28 (Grain)
			14 (Forage)
of water. Do not apply to Corn during the pollen-shed period if bees are visiting the area. Do not feed or graze within 14 days of last application. USE RESTRICTIONS: Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per year. PROHIBITION: Workers are prohibited from entering the treated area to perform detasseling tasks for 4 days in nonarid areas and for 15 days in			
	40		
outdoor areas where year. Safflower – AZ and CA Only	the average annual rainfall is les Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips	s than 25 ir 0.5 to	
year. Safflower – AZ and CA Only (REI = 48 hours) USE RESTRICTION	Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips S: Do not apply more than 0.5 lb.	s than 25 ir 0.5 to 1 pt. a.i. (1 pt. o	14 f this prod-
year. Safflower – AZ and CA Only (REI = 48 hours) USE RESTRICTION uct) per acre per app product) per acre per	Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips S: Do not apply more than 0.5 lb. lication. Do not apply more than (year.	s than 25 in 0.5 to 1 pt. a.i. (1 pt. o 0.5 lb. a.i. (14 f this prod- 1 pt. of this
year. Safflower – AZ and CA Only (REI = 48 hours) USE RESTRICTION uct) per acre per app product) per acre per Sorghum (Milo)	Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips S: Do not apply more than 0.5 lb. lication. Do not apply more than 0.5 lb.	s than 25 ir 0.5 to 1 pt. a.i. (1 pt. o	14 f this prod-
year. Safflower – AZ and CA Only (REI = 48 hours) USE RESTRICTION uct) per acre per app product) per acre per Sorghum (Milo)	Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips S: Do not apply more than 0.5 lb. lication. Do not apply more than (year. Aphids (Green bugs) SPECIFIC DIRECTIONS: Grou Apply above rates in 25 to 40 ga Air Application: Apply above rates in cons of water per acre. Do not fe within 28 days of last application	0.5 to 1 pt. a.i. (1 pt. o 0.5 lb. a.i. (0.5 to 1 pt. nd Applica als. of wate ates in 1 or ead or graze	14 If this prod- 1 pt. of this 28 Ition: r per acre. more gal- e Milo
year. Safflower – AZ and CA Only (REI = 48 hours) USE RESTRICTION	Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips S: Do not apply more than 0.5 lb. lication. Do not apply more than 0 year. Aphids (Green bugs) SPECIFIC DIRECTIONS: Groun Apply above rates in 25 to 40 ga Air Application: Apply above rations of water per acre. Do not fewithin 28 days of last application the pollen-shed period. Grasshoppers, Mites (including Banks grass mites [excluding Trans Pecos area of	0.5 to 1 pt. a.i. (1 pt. o 0.5 lb. a.i. (0.5 to 1 pt. nd Applica als. of wate ates in 1 or ead or graze	14 If this prod- 1 pt. of this 28 Ition: r per acre. more gal- e Milo
year. Safflower – AZ and CA Only (REI = 48 hours) USE RESTRICTION uct) per acre per app product) per acre per Sorghum (Milo)	Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips S: Do not apply more than 0.5 lb. lication. Do not apply more than (year. Aphids (Green bugs) SPECIFIC DIRECTIONS: Groun Apply above rates in 25 to 40 ga Air Application: Apply above rates of water per acre. Do not fewithin 28 days of last application the pollen-shed period. Grasshoppers, Mites (including Banks grass mites [excluding Trans Pecos area of TX]), Twospotted spider mites SPECIFIC DIRECTIONS: Groun Apply above rates in 25 to 40 ga Air Application: Apply above rates of the control of water per acre. Do not fewithin 28 days of last application of water per acre.	0.5 to 1 pt. a.i. (1 pt. o 0.5 lb. a.i. (0.5 to 1 pt. nd Applica als. of water add or grazer. 1 pt. nd Applica als. of water add or grazer. 1 pt.	14 14 If this prod- 1 pt. of this 28 Ition: If per acre, more gale In per acre, more gale
year. Safflower – AZ and CA Only (REI = 48 hours) USE RESTRICTION uct) per acre per app product) per acre per Sorghum (Milo)	Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips S: Do not apply more than 0.5 lb. lication. Do not apply more than 0.7 year. Aphids (Green bugs) SPECIFIC DIRECTIONS: Groun Apply above rates in 25 to 40 ga Air Application: Apply above rations of water per acre. Do not few thin 28 days of last application the pollen-shed period. Grasshoppers, Mites (including Banks grass mites [excluding Trans Pecos area of TX]), Twospotted spider mites SPECIFIC DIRECTIONS: Groun Apply above rates in 25 to 40 ga Air Application: Apply above rat	0.5 to 1 pt. a.i. (1 pt. o 0.5 lb. a.i. (0.5 lb. a.i. (0.5 to 1 pt. nd Applicates in 1 or oped or graze on. Do not applicates in 1 or oped or graze on. Do not applicates in 1 or oped or graze on. Do not applicates in 1 or oped or graze on. Do not applicates in 1 or oped or graze on. Do not applicates in 1 or oped or graze on. Do not applicates in 1 or oped or graze on. Do not applicates in 1 or oped or graze on. Do not applicates in 1 or oped or graze on. Do not applicates in 1 or oped or graze on.	14 14 If this prod- 1 pt. of this 28 Ition: If per acre, more gale In per acre, more gale
year. Safflower – AZ and CA Only (REI = 48 hours) USE RESTRICTION uct) per acre per app product) per acre per Sorghum (Milo)	Aphids, Leafhoppers, Plant bugs (including Lygus), Thrips S: Do not apply more than 0.5 lb. lication. Do not apply more than 0 year. Aphids (Green bugs) SPECIFIC DIRECTIONS: Groun Apply above rates in 25 to 40 ga Air Application: Apply above rates of water per acre. Do not few thin 28 days of last application the pollen-shed period. Grasshoppers, Mites (including Banks grass mites [excluding Trans Pecos area of TX]), Twospotted spider mites SPECIFIC DIRECTIONS: Groun Apply above rates in 25 to 40 ga Air Application: Apply above rates on 35 to 40 ga Air Application: Apply above rates o	o.5 to 1 pt. a.i. (1 pt. o 0.5 lb. a.i. (0.5 lb. a.i. (0.5 to 1 pt. nd Applicates in 1 or oped or graze n. Do not ap 1 pt. 1 pt. 1 pt. 0.5 pt. 0.5 pt. 0.5 pt. 1 pt. 0.6 pt. 1 pt. 0.7 pt. 0.8 pt. 0.9 pt.	14 14 15 this prod- 1 pt. of this 28 16 tion: 17 per acre. 18 more gal- 29 milo 29 milo 29 ply-during 28 28 28 28 4 tion: 18 per acre. 19 more gal- 29 milo 20 ply-during 28 4 milo 28 4 milo 28 4 milo 28 4 milo 28

(Continued)

FIELD CROPS

Сгор	Pest Controlled	Rate per Acre	PHI (Days)
Soybeans (REI = 48 hours)	Alfalfa loopers, Aphids, Bean leaf beetles, Leafhoppers, Mexican bean beetles, Spider mites, Threecornered alfalfa hoppers	1 pt.	21
	SPECIFIC DIRECTIONS: Ground above rate in 25 to 40 gals. of wate plication: Apply above rate in a mix water per acre. Do not feed or grazilast application.	r per acre nimum of 1	Air Ap- gal. of
	Grasshoppers	1 pt.	21
uct) per acre per a	above rate in 25 to 40 gals. of wate Application: Apply above rate in 1 water per acre. Do not feed or grazilast application. NS: Do not apply more than 0.5 lb. a. oplication. Do not apply more than 1 ller year. Retreatment interval is 7 day	or more ga e within 5 d i. (1 pt. of t b. a.i. (2 pts	lays of his prod-
Triticale, Wheat (REI = 48 hours)	Aphids, (Greenbugs), Wheat midges	0.5 to 0.75 pt.	35
(,	SPECIFIC DIRECTIONS: Do not an of grazing immature plants.	<u></u> _	14 days
	Brown wheat mites	0.33 to 0.5 pt.	35
	SPECIFIC DIRECTIONS: Do not ap of grazing immature plants.	oply within	14 days
	Grasshoppers	0.75 pt.	35
	SPECIFIC DIRECTIONS: Do not ap of grazing immature plants.	oply within	14 days

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

SEED CROPS

Apply the higher rate when pest population is high.

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

USE RESTRICTIONS: Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year. Retreatment interval is 90 days.

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, Hawthorne, 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. water)	
Azaleas	Lace bugs, Leafminers, Mites, Tea scale, White- flies	1 tsp. per gal. water (1.75 fl. ozs. per 10 gals. water)	
Birch	Aphids, Leafminers	0.5 to 1 tsp. per gal. water (0.8 to 1.75 fl. ozs. per 10 gals. water)	
	SPECIFIC DIRECTIONS: F leaves are expanded and re rate of application when inse	peat in 6 weeks. Use the higher	
Boxwood	Leafminers, Mealybugs, Mites	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water)	
	SPECIFIC DIRECTIONS: For Leafminers, apply when leaves are expanded and repeat in 6 weeks. Use the higher rate of application when insect pest population is high.		
Camellias	Aphids, Camellia scale, Mites, Tea scale	Foliar Spray: 1 tsp. per gal. water (1.75 fl. ozs. per 10 gals. water) Soil Drench: 2 fl. ozs. in 1 gal. water	
	SPECIFIC DIRECTIONS: Using the Soil Drench method, use 2 fl. ozs. in 1 gallon of water for plants up to 6 inches tall. Increase rate proportionately for larger plants. Apply as a soil drench around the base of plants in early Spring.		
Carnations	Aphids, Mites, Thrips	2dl. czs. per 500 sq. ft. o/bed or bench	
	SPECIFIC DIRECTIONS: A distribution. Water in thorough	opply insufficient water for eyen ghly followifig application.	
Cedar	Mites	20sps, per galcwater c c(2.5 fl.ozs, per 10 galst water)	
		(Continued)	

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Plant	Pest Controlled	⊥te of Application	
Christmas trees	Bagworms, Balsam twig aphids, Blue aphids, Eu-	3 tsps. per gal. water (5.25 fl. ozs. per 10 gals. water)	
	ropean pine shoot moths, Mites, Nantucket	,	
	pine tip moths, Zimmer- man pine moths		
	SPECIFIC DIRECTIONS:	Do not use on Japanese maples	
Cottonwood	or Red leaf ornamental sp Aphids, Bagworms, Leaf	Foliar Spray:	
(Poplar)	beetles	2 fl. ozs. per	
		6 gals. water. Soil Injection:	
		0.08 fl. oz. per inch	
		of tree circumference	
	SPECIFIC DIRECTIONS: Foliar spray: Apply 2 ozs. per gallons of water. Repeat on a 10-day interval, as necessa 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 grous surface. Number of injections should equal inches of tree		
	water. Leaf beetle (Chem acre through drip line. App	vily with at least two inches of igation): Apply 1.33 to 4 pints per lication may be repeated two gation section for additional appli-	
Cypress	Bactra moth larvae	1 tsp. per gal. water (1.75 fl. ozs. per 10 gals. water)	
	SPECIFIC DIRECTIONS:	Apply as a drenching spray.	
Daylilies	Aphids, Thrips	2 tsps. per gal. water (3.5 fl. ozs. per 10 gals. water)	
Douglas fir	Fir cone midge	4 tsps. per gal. water (7 fl. ozs. per 10 gals. water)	
	SPECIFIC DIRECTIONS: Make thorough coverage application when cones are closed and pendant. Use hydraulic or backpack sprayer.		
Fraser fir	Rosette bud mites .	1 to 2 tsps. per gal. water (1.75 to 3.5 fl. ozs. per 10 gals. water)	
-	sprayer with a handheld sp	Use a high pressure hydraulic oray gun to thoroughly wet trunk ok of tree. Use the higher rate of	
Euonymus	Aphids, Scales	1 to 2 tsps. per gal. water (1.75 to 3.5 fl. ozs. per 10 gals. water)	
•	SPECIFIC DIRECTIONS: if insect pest population is	Use the higher rate of application	
Ficus nitida	Thrips	1 tsp. per gal. water (1.75 fl. ozs. per 10 gals. water)	
Gardenias	Tea scale, Whiteflies	1 tsp. per gal. water (1.75 fl. ozs. per 10 gals. water)	
Gerberas	Thrips	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water)	
Gladiolus	Aphids, Thrips	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water)	
Hackberry	Hackberry budgall psyllid, Hackberry nipplegall psyllid	Soil Injection: 1 part to 3 parts dilution	
	product to 3 parts water). A tor. Inject 1 fl. oz. of the dil each one-half inch of trunk dripline of tree. Apply prior	Use a 1:3 dilution (1 part of this Apply using a low-pressure injection 6 inches below ground for a diameter. Make insertions within to bud break. Do not apply to established for at least 3 years.	
Hemlocks	Mites, Scales	1 tsp. per gal. of water (1.75 fl. ozs. per	
		10 gals. water) (Continued	

Plant	(est Controlled	Rate of Application	
Holly (English & American, not	Leafminers, Mites, Soft scale	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water)	
Burford variety)	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 product for every 3 fl. ozs. of water). Apply using a low-pressure injector. Inject 1.25 fl. ozs. of the dilution 6 inches below ground for each one-half inch of trunk diameter. Do not apply to plants that have not been established for at least 3 years. Aphids, Iris borer, Thrips 2 tsps. per gal. water		
		(3.5 fl. ozs. per 10 gals. water)	
	new leaves are 5 to 6 inche		
Oak	Golden oak scale	2 tsps. per gal. water (3.5 fl. ozs. per 10 gals. water)	
Pines, Juniper	Aphids, Bagworms, Euro- pean pine shoot moth, Midges, Mites, Zimmer- man pine moth	2 tsps. per gal. water (3.5 fl. ozs. per 10 gals. water)	
	Loblolly pine sawfly, Nantucket pine tip moth	3.5 tsps. per gal. water (6 fl. ozs. per 10 gals. water)	
Pinyon pine	Pinyon needle scale	2.5 tsps. per gal. water (4.3 fl. ozs. per 10 gals. water)	
	SPECIFIC DIRECTIONS: Apply spray to egg 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 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.		
Poinsettia	Aphids, Mealybugs, Mites, Whiteflies	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water)	
Roses	Aphids, Leafhoppers, Thrips	1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. water)	
	SPECIFIC DIRECTIONS: Foliar Spray: Apply 2 sprays 6 weeks apart the first year followed by annual 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, Mealy- bugs, Mites	2 tsps. per gal. water (3.5 fl. ozs. per 10 gals. water)	

STORAGE AND DIC. OSAL

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. Clean container 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, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Nonrefillable Container (rigid material; 5 gallons or greater): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill 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, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refillable Containers: Refillable container. Refill this container with this product 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 remaning contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

WARRANTY—CONE ONS 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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