

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



OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Alice Walker  
Winfield Solutions, LLC  
P.O. Box 64589 MS 5705  
St. Paul, MN 55164

AUG 07 2012

Dear Ms. Walker:

Subject: Response to the Dimethoate Reregistration Eligibility Decision  
EPA Reg. No. 9779-273; Decision No. 392721

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

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

The basic Confidential Statement of Formula (CSF) dated 1/31/11 is acceptable. All other CSF's including Alternates have been superseded by this basic. This has been added to your record.

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

A stamped copy of the labeling is enclosed for your records. If you have any questions, please contact Dr. Jennifer Urbanski at 703-347-0156 or [urbanski.jennifer@epa.gov](mailto:urbanski.jennifer@epa.gov).

Regards,

A handwritten signature in blue ink that reads "Venus Eagle".

Venus Eagle, PM 1  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosure

ACCEPTED  
AUG 07 2012

2/24

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

1

# Dimate 4E

Systemic Insecticide

EPA. Reg. No: 9779-273

ACTIVE INGREDIENT	
Dimethoate (0,0-dimethyl S-[N-(methylcarbamoyl) Methyl] phosphorodithioate).....	43.5%
OTHER INGREDIENTS* .....	56.5%
TOTAL.....	100.0%

\*Contains Petroleum Distillate  
Contains 4 pounds dimethoate per gallon.

**KEEP OUT OF REACH OF CHILDREN**

## WARNING / AVISO

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

<b>FIRST AID</b>	
<b>Contains an organophosphate that inhibits cholinesterase.</b>	
IF SWALLOWED	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
IF IN EYES	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For further emergency medical information call toll-free 1-877-424-7452.	
<b>NOTE TO PHYSICIAN:</b> Dimethoate is an acetyl cholinesterase inhibitor. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine. Contains petroleum distillate – vomiting may cause aspiration pneumonia.	

Read additional PRECAUTIONARY STATEMENTS inside booklet.

EPA Reg. No. 9779-273

EPA Est. No. \_\_\_\_\_

Distributed By  
Winfield Solutions, LLC  
P.O. Box 64589, St. Paul, MN 55164-0589  
RQ

NET CONTENTS 2.5 GALS.

LOT NO. \_\_\_\_\_  
1/0802/2

# WINFIELD™

# AgrisOLUTIONS™

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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

**Personal Protective Equipment (PPE)**

Some materials that are chemical resistant to this product are barrier laminate  $\geq 14$  mils butyl rubber  $\geq 14$  mils and viton  $\geq 14$  mils 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 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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate Do not reuse them Follow manufacturer's instructions for cleaning/maintaining PPE If no such instructions for washables exist use detergent and hot water Keep and wash PPE separately from other laundry

**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 Protection 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/loaders except 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 Worker Protection Standard (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 use closed systems enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240 (d) (4 5)] the handler PPE requirements may be reduced or modified as specified in the WPS

4/21

**USER SAFETY RECOMMENDATIONS**

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

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to wildlife and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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 ground-water 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.

**HIGHLY TOXIC TO BEES:** This product is toxic to bees. Restrict application to the period after dark when bees are inside the hive or in the early morning before the bees are foraging in the fields. Protective information may be obtained from your Cooperative Agricultural Extension Service.

**PHYSICAL OR CHEMICAL HAZARDS**

Combustible. Do not use, pour, spill, or store near heat or open flame. Do not use this product in or on electrical equipment due to the 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.

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

This product may be used to control the types of insects listed in the tables in this section of the label on the fruit crops, nut crops, vegetable crops, field crops, and other crops listed in those tables. This product may be applied using ground sprayers, aircraft, or the types of irrigation systems indicated under "**Application through Irrigation Systems.**"

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and 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 Worker Protection Standard.

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 Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls worn over long-sleeved shirt and pants; chemical-resistant gloves made of any waterproof material; chemical-resistant footwear plus socks; and chemical-resistant headgear for overhead exposure.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

#### Aerial Application

Automatic flagging devices must be used whenever feasible.

If human flaggers are employed, they must wear the protective clothing and respirator specified on this label.

#### 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.

6/24

- 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 in to 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 up 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

**Application through Irrigation Systems**

Apply this product only through the following types of systems center pivot lateral move end tow side (wheel) roll traveler big gun solid set or hand move irrigation systems 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 nonuniform distribution of treated water

If you have questions about calibration you should contact State Extension Service specialists equipment manufacturers or other experts

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise

Mix in clean supply tank the specified amount of this product for acreage to be covered and needed quantity of water

This product should not be tank mixed with other pesticides surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use

Follow precautionary statements and directions for all tank mixed products

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 stage of 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 precautions for crop being treated

Continuous mild agitation of pesticide mixture may be needed to assure a uniform application particularly if the supply tank requires a number of hours to empty

**Systems Connected to Public Water Sources**

Great care should be taken and properly maintained equipment used when 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 a 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 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 Irrigation (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

Do not apply when wind speed favors drift beyond the area intended for treatment

**Mixing Directions**

Mix this product in water to form an emulsion spray mixture To make the emulsion fill the spray tank half way with water Agitate and add the proper amount of this product (see **Crops and Sites** table and **Ornamentals** for crop to be treated) Then fill the spray tank with water while still agitating Continue to agitate mixture during use

The hazards and precautions associated with handling this product apply to it equally before and after it is diluted with water for spray application

**Application Rates and Spray Equipment**

The **Crops and Sites** table and the paragraphs pertaining to **Ornamentals** indicate the amounts of this product that are to be applied per acre treated per application Repeat applications as necessary to control the pests listed on this label unless directed otherwise by this label for the crop to be treated Where the table indicates a range in application rate use the lower of the rates indicated when treating small or young plants or when dealing with light infestations of insects

When applying this product with ground sprayers calibrate the equipment so that the specified amount of this product is not applied in less than 3 gallons of water per acre unless directed otherwise by this label Calibrate equipment used for aerial applications to deliver the specified amount of this product in 3 to 10 gallons of water unless directed otherwise by this label Always use sufficient water for adequate coverage of the crop foliage

**Crops and Sites**

<b>Crop</b>	<b>Pest Controlled</b>	<b>Rate per acre</b>	<b>Interval (Days) Between Last Application and Harvest</b>
Fruit Pears	aphids leaf hoppers mites (except rust mites) pear psylla	1/2 to 1 pt /100 gals water	28 Do not apply when trees or substantial number of weeds in the orchard are in bloom Do not graze livestock in treated orchards
Maximum single application rate is 2 pt /acre (1 lb a i /acre) Maximum total rate per year is 2 pt /acre (1 lb a i /acre) 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 Pre harvest— <b>For use in Idaho Oregon Utah Washington and Montana only</b>	aphids cherry fruit flies mites	Dilute application 1/2 to 1 pt /100 gals water  Concentrate application 2 pts /A in a minimum of 50 gals water	21 Make a single application within 7 days of adult fly emergence in the area This single application should be made in late May or early June when the fruit is small in size Concentrate sprays should be used with caution to avoid fruit marking and injury on sensitive varieties such as Rainier species Do not apply when trees or substantial numbers of weeds in the treatment area are in bloom Do not graze livestock in treated orchards Only a single application may be made



<p>Maximum single application rate 2 pts /acre (1 lb a i /acre) Maximum total rate per year is 2 2/3 pts /acre (1 33 lbs a i /acre) 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</p>			
<p>Cherries Post harvest <b>For use in Idaho Oregon Utah Washington and Montana only</b></p>	<p>aphids cherry fruit flies mites</p>	<p>Dilute application 1/2 to 1 pt /100 gals water</p> <p>Concentrate application 2 pts /A in a minimum of 50 gals water</p>	<p>Make a single application a minimum of 7 days after final harvest or apply in cases where a decision is made not to harvest due to poor fruit quality a light crop or unfavorable market conditions Do not apply when trees or substantial numbers of weeds in the treatment area are in bloom Do not graze livestock in treated orchards Only a single application may be made</p>
<p>Maximum single application rate 2 pts /acre (1 lb a i /acre) Maximum total rate per year is 2 2/3 pts /acre (1 33 lbs a i /acre) 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</p>			
<p>Citrus Grapefruit Kumquats Lemons Limes Oranges Pummelos Tangelos Tangerines (REI = 10 days)*</p>	<p>aphids mites (except rust) psyllid thrips whiteflies</p>	<p>Ground Application 1/2 to 1 pt in 50 to 100 gals of water for dilute application Apply as a thorough distribution coverage spray</p> <p>Concentrate Application (Mist) Apply 2 pts per acre in sufficient water to provide full coverage of foliage</p> <p>Air Application Apply 2 pts per acre in 5 to 10 gals of water</p>	<p>15</p> <p>Use the higher application rate if infestation is heavy or if orchard foliage is dense Do not apply when trees or substantial numbers of weeds in the orchard are in bloom Do not graze livestock in treated orchard</p>
	<p>Scales (except black or snow)</p>	<p>Ground Application 1/2 to 1 1/2 pts in 50 to 100 gals for dilute application Apply as a thorough distribution coverage spray</p> <p>Concentrate Application (Mist) 2 pts per acre in sufficient water to provide full coverage of foliage</p>	<p>15</p> <p>Use the higher application rate when insect pest population is high or if orchard foliage is dense Do not apply when trees or substantial numbers of weeds in the orchard are in bloom Do not graze livestock in treated orchards</p>
<p>USE RESTRICTIONS Maximum single application rate is 2 pt /acre (1 lb a i /acre) Maximum total rate per year is 2 pt /acre (1 lb a i /acre) Do not apply to citrus seedlings</p> <p>*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</p>			

<p>Citrus: Grapefruit, Lemons, Oranges, Tangerines—<b>For use in Arizona only</b> (REI = 10 days)*</p>	<p>Thrips</p>	<p style="text-align: center;">PHI 15 days</p> <p>Use specified dosages of this product in the amount of water necessary to achieve adequate coverage of foliage. The type of equipment used will determine the concentration required.</p> <p>Ground application: Apply up to 2 pts. (1 lb. a.i.) in not less than 20 gals. of water per acre. Do not enter treated groves within 4 days of last application.</p> <p>Use of dimethoate is prohibited during any time of day in any given orchard from when that orchard is 10% open bloom until such time as there has been at least 75% petal fall on the north side of the trees. Applications of dimethoate shall be limited to that period of time between 1 hr. after sunset to 3 hrs. before sunrise when any one of the following conditions prevail: 1) Before the onset of petal fall, the orchard to be treated has open blooms present and these open blooms represent less than 10% of the total anticipated bloom in the orchard. 2) After the initiation of petal fall, there is less than 25% of open bloom remaining in the orchard to be treated. 3) It is between the calendar dates of February 15<sup>th</sup> and May 1<sup>st</sup>.</p> <p>All applications of dimethoate on citrus must be documented on Form 1080, written either by a pest control advisor, farm owner or farm manager, as is normally required for custom applications of pesticides, except that private applicators may omit the "Pesticide Application Report" section. The description of the status of bloom on the orchard to be treated as it was at the time of the application shall be indicated in the section for "Label Restrictions/Special Instructions." Both private and custom applicators shall mail to the Agriculture Department's Phoenix office, the original of each completed Form 1080, done in accordance with this label. Each Form 1080 shall be postmarked not later than Monday following the week in which the application was made, except when holidays intervene.</p>
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**USE RESTRICTIONS:** Do not apply by air.

Maximum single application rate is 2 pt./acre (1 lb. a.i./acre). Maximum total rate per year is 2 pt./acre (1 lb. a.i./acre). Do not apply to citrus seedlings.

\*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.

<p>Citrus--<b>For use in California and Arizona only:</b> Non-bearing and nursery stock (REI = 10 days)*</p>	<p>aphids, thrips</p>	<p>Foliar Spray: 1 pt./100 gallons of water</p>	<p>Repeat applications as necessary. May be applied in the year trees begin to bear fruit. Do not graze livestock in treated orchards.</p>
		<p>Soil Drench (trees 1 to 3 years old): 1 pt./acre</p>	<p>Apply in the furrow or basin around the base of trees. Apply when insect injury to new growth</p>

			appears Do not apply to trees that will bear fruit within one year Do not graze livestock in treated orchards
<p>USE RESTRICTIONS Do not apply more than 1 pt of this product (1/2 lb a i ) per acre per application Do not apply more than 2 pts of this product (1 lb a i ) per acre per year Do not apply by air</p> <p>*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</p>			
<p><b>Nuts</b> Pecans</p>	aphids mites leafhoppers	Ground equipment 2/3 pt /acre	21 Do not graze livestock in treated groves
	aphids	Aerial Equipment 2/3 pt /acre in a minimum of 5 gals of finished spray	Maximum application rate is 2/3 pt /acre (1/3 lb a i /acre) Maximum total rate per year is 2/3 pt /acre (1/3 lb a i /acre) The REI is 48 hours
<p><b>Vegetable Crops</b> Asparagus— <b>Not for use in California or Arizona</b></p>	aphids Asparagus beetles	1 pt /acre	Apply after the last harvest at no less than 14 day intervals up to a maximum of 2 pt per acre per year Do not apply less than 180 days before harvest Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Maximum total rate per season is 2 pt /acre (1 lb a i /acre) The REI is 48 hours
<p>Beans (including fresh lima snap and dry beans and excluding cowpeas)</p>	aphids grasshoppers leafhoppers leaf miners lygus bugs mites	1/2 to 1 pt /acre	Beans may be harvested on day of application Do not feed treated vines Maximum single application rate is 1 pt /acre (1/2 lb a i /acre 14 day retreatment interval Maximum total rate per season is 2 pt /acre (1 lb a i /acre) The REI is 48 hours
<p>Broccoli Cauliflower</p>	aphids	1/2 to 1 pt /acre	7 Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Retreatment interval is 7 days Maximum total application rate per year is 3 pt /acre (1 1/2 lb a i /acre) The REI is 48 hours however the REI is increased to 72 hours in outdoor areas where the average annual rainfall is less than 25 inches per year
<p>Brussels Sprouts <b>For use in California only</b></p>	Aphids Apply when insects first appear and	Ground Equipment 1 pt /acre in a minimum of 100 gals of water per acre Do not apply	10 Do not exceed 3 applications per growing season Do not feed or

	repeat as needed	by air	graze livestock in treated areas Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Maximum total application rate per year is 3 pt /acre (1 1/2 lb a i /acre) Retreatment interval is 7 days The REI is 48 hours however the REI is increased to 72 hours in outdoor areas where the average annual rainfall is less than 25 inches per year
Celery	leaf miners	Ground Equipment 1 pt /acre	7 Maximum single application rate is 1 pt acre (1/2 lb a i /acre) Retreatment interval is 7 days Maximum total application rate per year is 3 pt /acre (1 1/2 lb a i /acre) The REI is 48 hours
Kale	aphids leafhoppers leaf miners	1/2 pt /acre	14 Maximum single application rate is 1/2 pt /acre (1/4 lb a i /acre) Reapplication interval is 15 days Maximum total application rate per year 1 pt /acre (1/2 lb a i /acre) The REI is 48 hours
Leaf Lettuce Swiss chard Endive (Escarole)	aphids leafhoppers leaf miners	1/2 pt /acre	14 Maximum single application rate is 1/2 pt /acre (1/4 lb a i /acre) Reapplication interval is 7 days Maximum total application rate per year is 1 1/2 pt /acre (3/4 lb a i /acre) The REI is 48 hours
Lentils	lygus bug	1 pt /acre	Do not apply within 14 days of harvest Do not feed or graze treated plants Do not make more than two applications per growing season This pesticide is highly toxic to bees Do not apply if bees are visiting the areas to be treated when crop or weeds are in bloom
	aphids	1/2 to 1 pt /acre	Do not make more than two applications per growing season Do not apply within 14 days of harvest Do not feed or graze treated plants This pesticide is highly toxic to bees Do not apply if bees are visiting the areas to be treated when crop or weeds are in bloom

Melons (except watermelons)	aphids leaf hoppers leaf miners thrips	1 pt /acre	3
NOTE For Lentils and Melons Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) 7 day reapplication interval Maximum total rate per year is 2 pt /acre (1 lb a i /acre) The REI is 48 hours			
Mustard Greens	aphids leafhoppers leaf miners	1/2 pt /acre	14 Maximum single application rate is 1/2 pt /acre (1/4 lb a i /acre) Reapplication interval is 9 days Maximum total application rate per year is 1 pt /acre (1/2 lb a i /acre) The REI is 48 hours
Watermelons	aphids leafhoppers leaf miners	1/2 to 1 pt /acre	3 Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) 7 day reapplication interval Maximum total rate per year is 2 pt /acre (1 lb a i /acre) The REI is 48 hours
Peas (Not for use on Field Peas)	aphids	1/3 pt /acre	Peas may be harvested on day of application Do not feed or graze hay within 21 days after last application when a stationary viner is used Do not feed or graze when a mobile viner is used Do not make more than one application per season Maximum application rate is 1/3 pt /acre (1/6 lb a i /acre) Maximum total rate per year is 1/3 pt /acre (1/6 lb a i /acre) The REI is 48 hours
Peppers	aphids leaf miners maggots	1/2 to 2/3 pt /acre	Peppers may be harvested on day of application Maximum single application rate is 2/3 pt /acre (1/3 lb a i /acre) Reapplication interval is 7 days Maximum total rate per year is 3 1/3 pt /acre (1 2/3 lb a i /acre) The REI is 48 hours
Potatoes	aphids grasshoppers leaf miners leafhoppers	1/2 to 1 pt /acre	Potatoes may be harvested on day of application Maximum single application rate of 1 pt /acre (1/2 lb a i /acre) Reapplication interval is 7 days Maximum total rate per year is 2 pt /acre (1 lb a i /acre) The REI is 48 hours

Tomatoes	aphids leaf miners leafhoppers	1/2 to 1 pt /acre	7 Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Maximum total rate per year is 2 pt /acre (1 lb a i /acre) 6 day reapplication interval The REI is 48 hours
Turnip (greens and root)	aphids leafhoppers leaf miners	1/2 pt /acre	14 Maximum single application rate is 1/2 pt /acre (1/4 lb a i /acre) Reapplication interval is 3 days Maximum total rate per year is 3 1/2 pt /acre (1 3/4 lb a i /acre) The REI is 48 hours
Where cabbage worms and cabbage loopers are a problem the above rates of DIMATE 4E are compatible with endosulfan and malathion Use in accordance with the manufacturer s directions for control of these insects			
<b>Field Crops</b> Alfalfa	aphids grasshoppers leafhoppers lygus bugs reduction of alfalfa weevil larvae	1/2 to 1 pt /acre	Do not apply to alfalfa in the bloom period Do not apply within 10 days of harvest or pasturing Make only one application per cutting Effective only on cutting to which applied Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Maximum total rate per crop cycle or cutting is 1 pt /acre (1/2 lb a i /acre) The REI is 48 hours
Field Corn Popcorn	banks grass mites (excluding Trans Pecos area of Texas) aphids bean beetles two spotted spider mites corn rootworm adult*	2/3 to 1 pt /acre Aerial Application spray over the foliage when mites appear Apply above rates in 1 or more gals of water per acre	14 Do not feed or graze within 14 days of last application Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Maximum total rate per year is 1 pt /acre (1/2 lb a i /acre) The REI is 48 hours
	grasshoppers	1 pt /acre Ground Application Apply above rate in 20 to 40 gals of water per acre Aerial Application Apply above rate in 1 or more gals of water per acre	*Note Corn rootworm adult not registered for use in California Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Maximum total rate per year is 1 pt /acre (1/2 lb a i /acre) The REI is 48 hours

<p><b>PROHIBITION</b> Workers are prohibited from entering the treated area to perform detasseling tasks for 4 days in nonarid areas and for 15 days in outdoor areas where the average annual rainfall is less than 25 inches per year</p>			
<p><b>Cotton—For use in California and Arizona only</b></p>	<p>lygus bugs leafhoppers black fleahoppers plant bugs (including lygus) thrips</p>	<p>1/2 to 1 pt /acre</p>	<p>14</p> <p>Repeat applications may not be made at intervals closer than 14 days Make only 2 applications per season at the higher rate Do not feed treated forage or graze livestock on treated fields Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Maximum total rate per season is 2 pt/acre (1 lb a i /acre) The REI is 48 hours</p>
	<p>aphids mites thrips fleahoppers plant bugs</p>	<p>1/4 to 1 pt /acre</p>	
<p><b>Cotton—Not for use in California and Arizona</b></p>	<p>lygus bugs</p>	<p>1/2 pt /acre</p>	<p>14</p> <p>Do not make applications at intervals closer than 14 days Do not feed treated forage or graze livestock on treated fields Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Maximum total rate per season is 2 pt/acre (1 lb a i /acre) The REI is 48 hours</p>
	<p>aphids leaf hoppers lygus bugs thrips</p>	<p>1/2 to 1 pt /acre</p>	
<p><b>Safflower For use in California and Arizona only</b></p>	<p>aphids leaf hoppers lygus bugs thrips</p>	<p>1/2 to 1 pt /acre</p>	<p>14</p> <p>Do not make applications at intervals closer than 14 days Make only 2 applications per season at the higher rate Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Maximum total rate per crop cycle or cutting is 1 pt /acre (1/2 lb a i /acre) The REI is 48 hours</p>
<p><b>Sorghum (milo)</b></p>	<p>aphids</p>	<p>1/2 to 1 pt /acre</p> <p>Ground Application Apply above rates in 25 to 40 gals of water per acre</p> <p>Aerial Application Apply above rates in 1 or more gals of water per acre</p>	<p>Do not feed or graze within 28 days of last application Make no more than 3 applications as needed per season Do not apply after heading</p> <p>Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Reapplication interval is 7 days Maximum total application rate per year is 2 pt /acre (1 lb a i /acre) The REI is 48 hours</p>
	<p>banks grass mites (excluding Trans Pecos area of Texas)</p>	<p>1 pt /acre</p> <p>Ground Application Apply above rates in 25 to 40 gals of water per acre</p>	

		Aerial Application Apply above rate in 1 or more gals of water per acre	
	sorghum midge	1/4 to 1/2 pt /acre Aerial Application Apply above rates in 1 or more gals of water per acre	
Soybeans	Mexican bean beetle spider mites bean leaf beetle leafhopper	1 pt /acre Aerial Application Apply specified rate in a minimum of 2 gals of water per acre	21 Do not feed or graze within 5 days of last application Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Reapplication interval is 7 days Maximum total application rate per year is 2 pt /acre (1 lb a i /acre) The REI is 48 hours
	grasshoppers	1 pt /acre Ground Application Apply above rate in 25 to 40 gals of water per acre Aerial Application Apply above rate in 1 or more gals of water per acre	
Wheat	aphids (greenbugs) wheat midges	1/2 to 3/4 pt /acre	Do not apply within 14 days of grazing immature plant Do not harvest grain within 35 days of last application Do not make more than 2 applications per year Maximum single application rate is 3/4 pt /acre (3/8 lb a i /acre) Maximum total rate per crop cycle or cutting is 1 pt /acre (1/2 lb a i /acre) The REI is 48 hours
	brown wheat mite	1/3 to 1/2 pt /acre	
	grasshoppers	3/4 pt /acre	
<b>Seed Crops</b> Alfalfa	aphids leafhoppers lygus bugs grasshoppers reduction of Alfalfa weevil larvae	1/2 to 1 pt /acre	Do not apply to alfalfa in the bloom period Do not feed or graze livestock in treated crops hay threshings or stubble within 10 days of application Maximum single application rate is 1 pt /acre (1/2 lb a i /acre) Maximum total rate per crop cycle or cutting is 1 pt /acre (1/2 lb a i /acre) The REI is 48 hours
Grasses grown for seed	winter grain mites aphids thrips plant bugs	1/2 to 2/3 pt /acre	Do not graze or use seed or seed screenings for feed purposes Do not apply within 14 days of harvest Maximum single application rate of 2/3 pt /acre (1/3 lb a i /acre) 90 day retreatment interval



17/24

			Maximum total rate per year is 2 pt /acre (1 lb a i /acre) The REI is 48 hours
<b>ATTENTION DO NOT USE ON SEED ONIONS SEED CARROTS OR SEED BERMUDA GRASS</b>			

**Ornamentals**

FOR USE ON ORNAMENTAL PLANTS GROWN IN NURSERIES ONLY

Do not use on ornamental plants growing in greenhouses Christmas tree and conifer plantations landscapes interiorscapes and residential public recreational commercial industrial and institutional establishments

DIMATE 4E is effective in controlling many sucking piercing and chewing insects including aphids thrips leafminers scales leafhoppers and mites that attack valuable ornamental plantings For proper timing of treatments for the control of specific pests on ornamental plants consult local horticultural authorities Apply sprays uniformly and thoroughly to foliage except as otherwise directed when insects or their damage is first observed Where not prohibited by this label applications to ornamental plants may be repeated as necessary Do not overdose or overspray Use only on the ornamental plants listed below

**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 Do not make soil injections within 20 feet of edible crop gardens

**High Pressure Handwand Equipment** When applications are made by high pressure handwand equipment the maximum application rate for all crops and use patterns is 1/2 teaspoon per gallon (0 0025 lb a i /gal )

**Conifer Seed Orchards** Maximum application rate is 2 pt /acre (1 lb a i /acre) Maximum total rate per year is 2 pt /acre (1 lb a i /acre) 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

**Woody Ornamentals and Christmas Tree Nurseries** Maximum application rate 2 pt acre (1 lb a i /acre) 14 day reapplication interval Maximum total rate per year 6 pt /acre (3 lb a i /acre) When applications are made by high pressure handwand equipment the maximum application rate for all crops and use patterns is 1/2 teaspoon per gallon (0 0025 lb a i /gal ) 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

**Herbaceous Ornamentals** Maximum single application rate is 1/2 pt /acre (1/4 lb a i /acre) Maximum total rate per year is 1/2 pt /acre (1/4 lb a i /acre) The REI is 48 hours

Crop	Pest Controlled	Rate	Specific Directions
Hackberry	Hackberry nipplegall psyllid Hackberry budgall psyllid	Soil injection Use a 1 3 dilution (1 part DIMATE 4E to 3 parts water)	Apply using a low pressure injector Inject 1 fl oz of dilution 6 inches below ground for each 1/2 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
Honeysuckle	Honeysuckle aphid	Soil injection Use a 1 3 dilution	Apply using a low pressure injector Inject 1 1/4 fl oz of dilution 6 inches beneath ground surface for each 1/2 inch of trunk diameter Do not apply to plants that have not been established for at least 3 years
Pinyon pine	Pinyon needle scale	25 1/2 oz in 10 gals water	Apply spray to egg masses at the base of the trees and to all rough bark and crotches that can be reached from the ground Make this bark application when crawlers start to emerge from the eggs Use hydraulic or backpack sprayer Do not spray leaves or needles since phytotoxicity may result
	Pinyon pitch mass borer Pinyon spindle gall midge Tip moth	Soil injection Use a 1 3 dilution	Apply using a low pressure injector Inject 1 1/2 fl oz of dilution 6 inches below ground surface for each 1 inch of trunk diameter Make insertions within dripline of tree For Spindle gall midge and Tip moth apply in mid to late spring For Pinyon borer make application in early summer
Douglas Fir	Fir cone midge	6 1/2 oz in 10 gals water	Make thorough coverage application when cones are closed and pendant Use hydraulic or backpack sprayer
Washington and Oregon Only Special exception for airblast applications to Douglas Fir Seed Orchards Maximum application rate of 1 15 gal /acre (4 15 lb a l /acre) Maximum total rate per year of 1 15 gal /acre (4 15 lb a l /acre) If airblast applications are applied at a rate greater than 1 qt/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			
Pines	Loblolly pine sawfly Nantucket pine tip moth	6 oz in 10 gals water	Apply when most larvae are in the second and third instars
	Zimmerman pine moth	3 1/2 oz in 10 gals water	Spray in Mid April and/or in early September for larvae control
Arborvitae	Aphids Bagworm Mites	3 1/2 oz in 10 gals water	
Azaleas	Lace bug Leafminers Mites Tea scale Whiteflies	1 3/4 oz in 10 gals water	
Birch	Aphids Leafminers	1 3/4 oz in 10 gals water	For leafminers apply when leaves are expanded about mid May and repeat in early July
Boxwood	Leafminers	1 3/4 oz in 10 gals	For leafminers apply in spring

	Mealy bug Mites	water	when leafminer flies first appear or in early summer for control of larvae in the infested leaves
Carnations	Aphids Thrips Mites	Soil drench 2 oz per 500 sq ft of bed or bench	Apply in sufficient water for even distribution Water in thoroughly following application
Camellias	Aphids Camellia scale Mites Tea scale	Foliar Spray 1 3/4 oz in 10 gals water Soil drench 2 oz in 1 gal water For plants up to 6 tall Increase rate proportionately for larger plants	Foliar spray Apply 2 sprays 6 weeks apart the first year followed by annual applications soon after first growth begins in the spring Soil drench Apply as a soil drench around the base of plants in early spring
Cedar	Mites	3 1/2 oz in 10 gals water	
Cypress	Bactra moth larvae	1 3/4 oz in 10 gals water	Apply as a drenching spray
Daylillies	Aphids Thrips	3 1/2 oz in 10 gals water	
Euonymus	Aphids Scale	3 1/2 oz in 10 gals water	
Ficus Nitida	Thrips	1 3/4 oz in 10 gals water	
Gardenias	Tea scale Whitefly	1 3/4 oz in 10 gals water	
Gerberas	Thrips	1 3/4 oz in 10 gals water	
Gladiolus	Aphids Thrips	1 3/4 oz in 10 gals water	
Hemlock	Mites Scale	1 3/4 oz in 10 gals water	
Holly (English & American) not Burford variety	Leafminers Mites Soft scale	1 3/4 oz in 10 gals water	For leafminers apply in spring when leafminer flies first appear or in early summer for control of larvae in infested leaves
Iris	Aphids Iris borer Thrips	3 1/2 oz in 10 gals water	For borer control spray when new leaves are 5 to 6 inches tall
Juniper	Aphids Bagworms Midges Mites	3 1/2 oz in 10 gals water	
Oak	Golden oak scale	3 1/2 oz in 10 gals water	
Poinsettia	Mites Whitefly Mealybug Aphids	1 3/4 oz in 10 gals water	
Roses	Aphids Leafhoppers Mites Thrips	1 3/4 oz in 10 gals water	
Taxus (upright or spreading yews)	Fletcher scale Mealybug Mites	3 1/2 oz in 10 gals water	

**STORAGE AND DISPOSAL**

**DO NOT CONTAMINATE WATER FOOD OR FEED BY STORAGE OR DISPOSAL**

**PESTICIDE STORAGE** Store in a dry location away from children animals foods feeds and other agricultural chemicals Keep container closed when not using Do not allow water into container as this may cause deterioration of product Handle in accordance with information given under PRECAUTIONARY STATEMENTS Do not store under conditions where temperatures may exceed 120°F or be below 45°F Keep storage area locked when not in use In the event of spillage or leakage soak up material with absorbent clay sand sawdust or other absorbent material Scrape up and dispose of in accordance with information given under PESTICIDE DISPOSAL Repackage and relabel useable product in a sound container

**PESTICIDE DISPOSAL** Pesticide wastes are acutely hazardous 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 HANDLING** Use label language appropriate for container size and type  
**Nonrefillable containers** Do not reuse or refill this container Clean container promptly after emptying

**Nonrefillable container equal to or less than 5 gallons** 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 ¼ 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 Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities

**Nonrefillable container greater than 5 gallons** Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ 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 Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities

**Refillable container** 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 percent 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 Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities

**FOR CHEMICAL EMERGENCY Spill leak fire exposure or accident call  
CHEMTREC 1 800 424 9300**

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