JUN U8 1993

Ms. Glenda Haage Riverside/Terra Corporation 600 Fourth St. Sioux City, IA 51101

Dear Ms. Haage:

Subject: Dimate 4E

EPA Registration No. 9779-273

Your Application for Pesticide Amendment

Dated March 29, 1993

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you make the labeling changes listed below before you release the product for shipment:

1. In accordance with the March 1983 "DIMETHOATE Pesticide Registration Standard (035001)" and PR Notice 93-3 the first paragraph of the ENVIRONMENTAL HAZARDS section must be changed to read:

This pesticide is toxic to wildlife and aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning equipment or disposal of wastes.

- 2. Under the section, RE-ENTRY STATEMENT, add a statement that there is a required four day re-entry for citrus.
- 3. Under the directions for use for CITRUS TREES NONBEARING AND NURSERY STOCK the re-entry period is 4 days.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

MADDEN DISK#3 6/4/93

with COMMENTS in EPA Letter Dated:

R.

DIMATE 4E Systemic insecticide

--- JUN 08 1993

Under the Fuderal Inserticide, Fungicide, and to bet tiode Act as amendal, for the perfeide registered under EPA Rog. No.

9779-273

ACTIVE INGREDIENT

Dimethoate (0,0-dimethyl S-[N-(methylcarbamoyl)

Total 100.00%

Contains 4 pounds Dimethoate per gallon.

STOP-READ LABEL BEFORE USING.

KEEP OUT OF REACH OF CHILDREN

WARNING/AVISO

Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Contact a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

IN CASE OF CONTACT: Immediately flush eyes or skin with plenty of water for at

IN CASE OF CONTACT: Immediately flush eyes or skin with plenty of water for a least 15 minutes while removing contaminated clothing and shoes. See doctor immediately.

See additional PRECAUTIONARY STATEMENTS on side panel.

EPA Reg. No. 9779-273

EPA Est. No. 9779-TX-3

Manufactured For RIVERSIDE/TERRA CORPORATION Terra Centre, 600 Fourth Street, Sioux City, Iowa 51101 Riverside Serves Agriculture. Agriculture Serves Everyone.

NET CONTENTS GALS.



PRECAUTIONARY STATEMENTS WARNING HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful or fatal if inhaled or swallowed or absorbed through the skin. May cause irritation of eyes, nose, throat and skin. Avoid contact with eyes and skin. Avoid breathing vapor or spray mist. Wash thoroughly after handling. In case of contact, flush with plenty of water for at least 15 minutes. Get medical attention. Keep away from domestic animals and foodstuffs. Do not contaminate or apply onto feed or foodstuffs. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

NOTE TO PHYSICIANS: Dimethoate may cause cholinesterase inhibition. Atropine is antidotal.

ENVIRONMENTAL HAZARDS

POISONOUS TO FISH AND WILDLIFE: This product is toxic to shrimp, crab, birds and other wildlife. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, spill, or store near heat or open flame.



GENERAL INFORMATION

DIMATE 4E is useful for control of certain pests of certain fruit crops, nuts, vegetables, and field crops. DIMATE 4E may be applied by ground sprayers or by airplanes, mixing the DIMATE 4E in water to form an emulsion spray solution. To make the spray solution, half fill the spray tank with water, agitate, add the proper amount of DIMATE 4E and then fill the spray tank with water while still agitating. Continue to agitate during use.

When applying with ground sprayers, calibrate so as to apply the recommended amount of DIMATE 4E in not less than 3 gallons of water per acre unless directed otherwise. Airplanes should spray the recommended amount of DIMATE 4E in 3 to 10 gallons of water per acre unless directed otherwise. Always use sufficient water for adequate coverage of the crop foliage. The dosages given under DIRECTIONS FOR USE are the amounts of DIMATE 4E to be applied per acre traited per application. Repeat application as necessary, unless otherwise directed in DIRECTIONS FOR USE. Where a dosage range is given use the fower rate out shall or young plants or with light insect infestations; use the higher rate on large or more mature plants or with heavy insect infestations. The hazards and precautions for handling DIMATE 4E in this container are equally applicable to it after dilution with water for spray application.

Apply this product only through sprinkler, including center pivot, lateral move, and 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 should 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 recommended 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 recommended 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 riped 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 % 4 ast, 60 days out of the year. Chemization systems connected to public water. systems must contain a functional reduced-pressure zone, backflow preventor. (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, quickclosing 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.

SPRINKER 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.



DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

RE-ENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

REQUIRED CLOTHING AND EQUIPMENT FOR APPLICATION.

Ground Personnel:

)

All applicators, flaggers and all personnel involved with the mixing, loading, and transferring operations must wear the protective clothing and equipment enumerated below. Pilots are exempt from this requirement. The protective clothing and equipment to be worn are as follows:

- a. Impermeable gloves (for example, rubber or plastic covered reinforced gloves).
- b. Boots or boot covers.
- c. Long-sleeved shirt and long pants.
- d. Wide-brimmed hat.
- e. Respirators must be worn by flaggers and mixer loaders.

Aerial Application:

Automatic flagging devices should be used whenever feasible.

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

NOTICE TO CROP OWNERS

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. In case of accidental exposure, follow the information given under STATEMENT OF PRACTICAL TREATMENT and have exposed person(s) see a physician. When oral warnings are given, warnings shall be given in a language customarily understood by workers.

Oral warnings must be given if there is a reason to believe that written varings cannot be understood by workers. Written warnings must include the following information: WARNING. Area treated with Dimethoate on (date). Do not enter without appropriate protective clothing. In case of accidental exposure, immediately remove contaminated clothing, wash the affected area, contact your supervisor, and have him take you to the doctor.

STORAGE AND DISPOSAL DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

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 deterior-ation 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. In case of fire or other emergency, report at once by toll-free telephone to 800-424-9300.

DISPOSAL

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 DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedure approved by state and local authorities.

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Interval (Days) Between

Last Application and Harvest Pests Controlled Rate . Crop. Do not apply when trees or sub-1 pt./100 gals. water FRUIT: Apple Maggott stantial numbers of weeds in the Codling mothtt Apples orchard (grove) are in bloom. Apply at petal-fall and every 10 to 14 days thereafter until control is achieved. Do not graze livestock in treated orchards. † Under heavy infestations, some sting injury may occur. #Midwest and eastern states only $\frac{1}{2}$ to 1 pt./100 gals. 28 Aphids, leaf-Apples hoppers, mites vater For apples, do not apply when Pears (except rust trees or substantial numbers of weeds in the orchard (grove) are in mites) bloom. Do not graze livestock in treated orchards. Ground Equipment: 1 to Aphids Grapefruit | 1 pt./100 gals. water. Lemons 15 Apply as an outside branges coverage spray. Tangerines Aircraft Equipment: 1 to 2 qts./acre in 5 td 10 gals. water. Ground Equipment: 1 to Mites (except 15 1 pt./100 gals. water. rust mites) Apply as a thorough distribution coverage spray. Ground Equipment: 1 td Scales (except 13 pts./100 gals. 45 black or snow) water. Apply as a thorough coverage spray. Ground Equipment: 1 td Thrips 1 pt./100 gals. water. 15 Apply as a mist spray. Aircraft Equipment: 1 to 2 qts./acre in 5 BEST AVAILABLE COPY to 10 gals. water. Whiteflies Ground Equipment: pt./100 gals. water. 15 Apply as a thorough distribution coverage spray. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom. Do not use on citrus seedlings. Make not nore than 2 applications to mature fruit. Do not enter treated groves within 4 days of last application. Do not graze livestock in treated brokinds. Aphids, mites, Ground Equipment: 2/3 NUTS: 21 : * leathoppers pt./acre Pecans Aerial Equipment: 2/3 | Do not graze Nivestock in treated Aphids pt./acre in a minimum groves. of 5 gals. of finished spray.

90+12

•	•		Interval (Days) Between
'Crop	Pests Controlled	Rate	Last Application and Harvest
VEGETABLE	Aphids, grass-	to 1 pt./acre	Beans may be harvested on day of
CROPS:	hoppers, leaf-		application. Do not feed treated
. Beans	hoppers, leaf		vines. This pesticide is highly
'green,	miners, lygus		toxic to bees. Do not apply if
⊥ima,snap,	bugs, mites		bees are vising the areas to be
dry)			treated when crop or weeds are in bloom.
Broccoli	Aphids	to 1 pt./acre	7
Cauliflower			<u> </u>
Cabbage	Aphids	to 1 pt./acre	<u> </u>
Head	Aphids, leaf-	ż pt./acre	/
lettuce	hoppers, leaf		
0.1	miners Leaf miners	Ground Equipment: 1	7
Celery	Lear miners	pt./acre	,
<u>(Florida)</u> Leaf	Aphids, leaf-	pt./acre	14
lettuce	hoppers, leaf	2 pc./acre	17
Spinach	miners		
Collards	winer 3	1	
Kale			
urnip			
(greens			
and roots	}		BEST AVAILABLE COPY
Mustard			BEST WINICHDEE COLL
greens			
Swiss char	d		
Endive	1		
(Escarole	k		
Melons	Aphids, leaf-	l pt./acre	3
(except	hoppers, leaf	i ·	
· - water-	miners, thrips	1	
melons)			
watermelon	s Aphids, leaf	to 1 pt./acre	3
	miners, leaf-	•	
	hoppers	1	<u> </u>
Peas	Aphids	1/3 pt./acre	Peas may be harvested on day of
)			application. Do not feed or graze
,		ļ	hay within 21 days after last ap-
			plications when a stationary viner
	-		is used. Do not feed or graze when
			a mobile viner is used. Do not
		<u> </u>	make more than one applicatin per
· -		l	season. This pesticide is highly
		1	toxic to bees. Do not apply if bees are visiting the areas to be
		l	treated when crop or weeds are in
	_	1 _	bloom.
	<u> </u>		No. of the last of
Peppers	Aphids, leaf	to 2/3 pt./acre	Peppers may be hervested on day of
	miners, maggots		application.
Potatoes	Aphids, grass-	to 1 pt./acre	Potatoes may be harvested on day
	hoppers, leaf		of application:
	miners, leaf-	1	
	hoppers	13.50.1.50.7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Tomatoes	Aphids, leaf	to 1 pt./acre	7
	miners, leaf-		1.2.2
11k	hoppers		

Where cabbage worms and cabbage loopers are a problem, the above rates of DIMIE 42 are compatible with endosulfan, malathion or parathion. Use in accordance with the manufacturers' directions for control of these insects.

••			Interval (Days) Between
Crop	Pests Controlled	Rate	Last Application and Harvest
	<u></u>		This pesticide is highly toxic to
1	l	 	bees. Do not apply if bees are
FIELD CROPS:	Aphids, grass-	to l pt./acre	visiting the areas to be treated when
Alfalfa	hoppers, leaf-	-	crop or weeds are in bloom. Do not
	hoppers, lygus		apply within 10 days of harvest or
]	bugs, reduction		pasturing. Make only one applica-
1	of alfalfa weevil		tion per cutting. Effective only on
}	larvae.		cutting to which applied.
Field Corn	Banks grass mites	2/3 to 1 pt./acre	14
	(excluding Trans-	Aerial Application:	
	Pecos area of	Spray over the foli-	Apply as necessary. Make no more than
	Texas)	age when mites appear.	
		Apply above races in	feed or graze within 14 days of
•		l or more gals. of	last application. Do not apply to
		water per acre.	corn during the pollen-shed period.
_	Grasshoppers	l pt./acre	
)		Ground Application:	
"		Apply above rate in 20	
		to 40 gals. of water	
	<u> </u>	per acre.	
		Aerial Application:	
		Apply above rate in 1	}
	-	or more gals. of water	4
	1	per acre.	1
Cotton	Lygus bugs, leaf	d to 1 pt./acra	14
_ (grown in	hoppers, black		Repeat applications should not be
California	_1 * `	{	made at intervals closer than 14
and Arizona	1	İ	days. Make only 2 applications per
			season at the higher rate. Do not
			feed treated forage or graze live-
Cotton	Aphids, mites,	to i pt./acre	stock on treated fields.
COCCON	thrips, flea-	1 co 1 pc./acte	Repeat applications should not be
)	hoppers	1	made at intervals closer than 14
,	Lygus bugs	ż pt./acre	days. Do not feed treated forage
	27800 0080		or graze livestock on treated
	}		fields.
Safflower	Aphids, leaf-	to pt./acre	14
(grown in	hoppers, lygus		Repeat applications should not be
California	1 '' '		made at intervals closer than 14
and Arizona			days. Make only 2 applications par
	1	1	season at the higher rate.
	<u> </u>		, av av ava vagner tetat

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•			Interval (Days) Between
Crop	Pests Controlled	Rate	Last Application and Harvest
Sorghum	Aphids	to 1 pt./acre	Do not feed or graze within 28 days
(milo)	•	Ground Application:	of last application. Make no more
,	1	Apply above rates in	than 3 applications as needed per
Į		25 to 40 gals. of	season. Do not apply after
Ì		water per acre.	heading.
	}	Aerial Application:	_
		Apply above rates in	
		l or more gals. of	
	}	water per acre.	
	Banks grass mites		
		Ground Application:	
	Pecos area of	Apply above rates in	
	Texas)	25 to 40 gals. of	
		water per acre.	
]	Aerial Application:	
		Apply above rate in 1	
)	or more gals. of water	
]	per acre.	
`	Sorghum midge	to pt./acre	Do not feed or graze within 28 days
,]	Aerial Application:	of last application. Make no more
		Apply above rates in	than 3 applications as needed per
		l or more gals. of	season. Do not apply after
		water per acre.	heading.
Soybeans	Mexican bean	1 pt./acre	21
-	beetle, spider	Aerial Application:	Do not feed or graze within 5 days
	mites, bean leaf	Apply recommended rate	e of last application.
	bestle	in a minimum of 2	
	·	gals. of water per	
		acre.	<u>.</u>
	Grasshoppers	l pt./acre	
	1	Ground Application:	
	Į.	Apply above rate in	
		25 to 40 gals. of	
		water per acre.	
`	· [Aerial Application:	
)		Apply above rate in	į
	Į	l or more gals. of	
	<u>. </u>	water per acre.	
Wheat	Aphids (green-		Do not apply within 14 days of
	bugs)	to 3/4 pt./acre	grazing immature plant. Do not
	Brown wheat mite		harvest grain within 35 days of
	Grasshoppers	3/4 pt./acre	last application. Do not make zere
		<u> </u>	than 2 applications per season.
	· ·		This pesticide is highly toxic to
SEED CROPS:	Aphids, leaf-	to 1 pt./acre	bees. Do not apply if bees are
Alfalfa	hoppers, lygus		visiting the areas to be treated
	bugs, grass-	•	when crop or weeks are in bloom.
	hoppers, reduc-	1	Do not feed or graze livestock in
	tion of alfalfa)	treated crops, hay, threshings or
	veevil larvae	}	stubble within 10 days of application
			i

ATTENTION:

DO NOT USE ON SEED ONIONS, SEED CARROTS, OR SEED BERMUDA GRASS.



CITRUS TREES - NONBEARING AND NURSERY STOCK **nsult your state agricultural extension sere for proper timing of applications.

Plant	Pests Controlled	Amount	
CITRUS: (California, Arizona) Grapefruit Lemons	Aphids Thrips	Foliar Spray: I pint DIMATE 4E per 100 gallons of water. Repeat applications as necessary. May be applied in the year grapefruit, lemon, orange and tangerine trees begin to bear fruit. Do not enter treated groves within 4 days of last application. Do not graze livestock in treated orchards.	
Oranges Tangerines		Soil Dranch (Trees 1 to 3 years old): 2 quarts DIMATE 4E per acre applied in the furrow or basin around the base of tree. Apply when insect injury to new growth appears. Do not apply to trees that will bear fruit within one year. Do not graze livestock in treated orchards.	
,	Do not apply when treeas or substantial numbers of weeds in the orchard (grove) are in bloom.		

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller and Buyer assumes the risk of any such

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