

Reg # 1386-618

PM-14

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JUL 9 1993

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Ms. Nik Ramswick
Universal Cooperatives, Inc.
7801 Metro Parkway
P. O. Box 460
Minneapolis, MN 55440

Dear Ramswick:

Subject: Dimethoate 267 EC Systemic Insecticide
EPA Registration No. 1386-618
Your Application for Pesticide Amendment
Dated May 5, 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 following label changes:

1. Under the general RE-ENTRY STATEMENT add a sentence requiring a four day re-entry period for citrus.
2. A restriction on livestock grazing in treated orchards must be added under the use directions for Apples, Pears (bearing & non-bearing).
3. Under the directions for use for Lemons, Oranges, Grapefruit, Tangerines, place the restriction "do not graze livestock in orchards that have been treated" with the other use restrictions listed for those crops and not off on its own as on the draft label.
4. Under the directions for use for Peas, place the restriction "Do not apply dimethoate to peas more than once per season" with the other use restrictions listed for peas and not off on its own as on the draft label.
5. Application to Safflower should be limited to two applications per season and not three as stated on the draft label.
6. Under the directions for use for sorghum change the sentence that reads, "Make 3 aerial applications or 3 ground applications as needed per season" so that it reads:

"Make only three applications per season as needed."

Madden Disk #3 7/8/93

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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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.

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

Note that this acceptance of your label does not relieve you of your obligation to comply with the Worker Protection Standard (WPS). If any of your products are covered by the WPS, you are required to submit, and receive the Agency's approval by April 21, 1994, of a revised label reflecting the required label statements of 40 CFR 156, published in the FEDERAL REGISTER of August 21, 1992 (57 FR 38102). Under the WPS labeling regulations at 40 CFR 156, subpart K, § 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency.

If you have any questions about this letter, contact Barbara Madden at (703) 305-5410 or (703) 305-6600.

Sincerely yours,

Robert A. Forrest
 Product Manager (14)
 Insecticide-Rodenticide Branch
 Registration Division (H7504C)

enclosure

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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DIMETHOATE 267 EC
Systemic Insecticide

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUL - 9 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
1386-618

KEEP OUT OF REACH OF CHILDREN
WARNING
ADVISO - PRECAUCION AL USUARIO: Si usted no lee ingles,
no use este producto hasta que le etiqueta haya sido
explicado ampliamente.
See Back Panel For Additional Precautionary Statements

ACTIVE INGREDIENT:

Dimethoate [O,O-Dimethyl S-(N-methylcarbamoyl) methyl phosphorodithioate]	31.44%
INERT INGREDIENTS*	68.56%
Total	100.00%

Contains 2.67 Pounds Dimethoate Per Gallon. *Contains Zylene.

Net Contents: 2 1/2 Gallons

EPA Reg. No. 1386-618
EPA Est. No. 1386-OH-1



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

May be fatal if swallowed or inhaled. Harmful if absorbed. May cause irritation of eyes, nose, throat and skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapor. Wear protective clothing, rubber gloves and a mask or pesticide respirator jointly approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Keep away from domestic animals and foodstuffs. Do not contaminate or apply directly onto feed or foodstuffs.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person. Get medical attention. If on Skin: Wash with plenty of soap and water. Get medical attention if irritation persists. If in Eyes: Flush with plenty of water for 15 minutes. Get medical attention.

) **NOTE TO PHYSICIAN:** This product may cause cholinesterase inhibition. Antidote is Atropine.

For Medical Emergency information, call 1-800-228-5635, extension 138.

ENVIRONMENTAL HAZARDS

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. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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. Protective information may be obtained from your Agricultural Extension services.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

REENTRY STATEMENT

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.

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

precautionary statements to workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information. "WARNING: Area treated with Dimethoate 267 EC (contains Dimethoate) on (date of application). Do not enter treated areas without appropriate protective clothing until sprays have dried. (Insert here Statement of Practical Treatment from label.)"

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 THROUGH ANY TYPE OF IRRIGATION SYSTEM.

REQUIRED CLOTHING AND EQUIPMENT FOR APPLICATION - All applicators, including homeowners and 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 is 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, and (E) respirators must be worn by flaggers and mixer/loaders.

APPLICATION EQUIPMENT - Dimethoate 267 EC can be applied by any pressure sprayer that will give uniform distribution of the spray such as ground sprayers, aerial sprayers or portable sprayers.

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.

GROUND APPLICATION - Apply in sufficient water for good coverage unless otherwise stated. Avoid drift to adjacent crops.

AIRPLANE APPLICATION - Apply in 3 to 10 gallons of water per acre. Avoid drift to adjacent crops.

APPLICATION IN ORCHARDS - Do not graze livestock in treated orchards.

CROP	INSECT	RATE	DAYS BETWEEN LAST APPLICATION AND HARVEST
FRUIT CROPS			
Apples, Pears (bearing & non-bearing)	Aphids, Leathoppers Pears Psylia Mites (except rust mites)	3/4 - 1 1/2 pints/100 gallons of water	Do not apply less than 28 days before harvest. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom.

Lemons Oranges Grapefruit Tangerines	Aphids	Ground Equipment: 3/4 to 1 1/2 pts. per 100 gals. water. Apply as an outside coverage spray. Aircraft Equip- ment: 3 to 6 pts. per acre in 15 to 20 gals. water.	Do not apply less than 15 days before harvest. Do not apply when trees or substan- tial numbers of weeds in the orchard (grove) are in bloom. Make no more than 2 applications to mature fruit. Do not use on citrus seedling. Do not enter treated groves within 4 days of last application.
	Mites (except rust mites)	Ground Equipment: 3/4 to 1 1/2 pts. per 100 gals. water. Apply as a thorough distribution coverage spray.	
	Scales (except black or snow)	Ground Equipment: 1 1/2 to 2 1/4 pts. per 100 gals. water. Apply as a thorough coverage spray.	Do not apply less than 45 days before harvest. Do not apply when trees or sub- stantial numbers of weeds in the orchard (grove) are in bloom. Make no more than 2 applications to mature fruit. Do not use on citrus seed- ling. Do not enter treated groves within 4 days of last application.
	Thrips	Ground Equipment: 3/4 to 1 1/2 pts. per 100 gals. water. Apply as a mist spray. Aircraft Equipment: 3 to 6 pts. per acre in 15 to 20 gals. water.	Do not apply less than 15 days before harvest. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom. Make no more than 2 applications to mature fruit. Do not use on citrus seed- ling. Do not enter treated groves within 4 days of last application
	Whitellies	Ground Equipment: 1 1/2 pts./100 gals. water. Apply as a thorough distribution coverage spray.	
DO NOT GRAZE LIVESTOCK IN ORCHARDS THAT HAVE BEEN TREATED.			
Citrus (non-bearing) (Ariz. & Calif.)	Thrips Aphids	FOLIAR SPRAY: Apply 1 1/2 pts. per 100 gallons of water. Repeat application as necessary. Do not enter treated groves within 4 days of last application. SOIL DRENCH: For trees 1-3 years old, apply 3 quarts per acre in the furrow or soil ring around the base of the tree. Apply as soon as insect injury to new growth begins. Use only on non-bearing trees. Nursery stock application should not be made in the year trees begin to bear fruit. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom.	

NUTS			
Pecans	Aphids, mites, leathoppers	Ground Equipment only: 1 pt./acre.	Do not apply less than 21 days before harvest. Do not graze livestock in treated groves.
VEGETABLE CROPS			
Beans (green, lima, snap, dry)	Aphids, Leafhoppers, Leaf miners, Mites, Lygus bugs	3/4 - 1 1/2 pt./acre.	Beans may be harvested on day of application. Do not feed treated vines. 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.
Broccoli Cauliflower	Aphids	3/4 - 1 1/2 pints/acre	Do not apply less than 7 days before harvest.
Cabbage	Aphids	3/4 - 1 1/2 pints/acre	Do not apply less than 7 days before harvest.
Head Lettuce	Aphids Leafhoppers Leaf miners	3/4 pint per acre	Do not apply less than 7 days before harvest.
Leaf Lettuce Spinach Collards Kale, Turnip (Greens & roots), Mustard greens, Swiss Chard Endive (escarole)	Aphids Leafhoppers Leaf miners	3/4 pint per acre	Do not apply less than 14 days before harvest.
Melons (except Watermelons)	Aphids Leafhoppers Leaf miners Thrips	1 1/2 pints/acre	Do not apply less than 3 days before harvest.
Peas	Aphids	1/2 pint per acre	Peas may be harvested on day of application. Do not feed or graze hay within 21 days after last application when a stationery viner is used. Do not feed or graze when a mobile viner is used. 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.

DO NOT APPLY DIMETHOATE TO PEAS MORE THAN ONCE PER SEASON.

Peppers	Aphids Leaf miners Maggots	3/4 - 1 pint/acre	Peppers may be harvested on day of application.
Potatoes Tomatoes Watermelons	Aphids Leaf miners Leaf hoppers	3/4 - 1 1/2 pints/acre	Do not apply less than 7 days before harvest.

FIELD CROPS			
Alfalfa (grown for hay)	Aphids Leafhoppers Lygus bugs Grasshoppers Reduction of Alfalfa Weevil Larvae	3/4 - 1 1/2 pts./acre	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. Do not apply within 10 days of harvest or pasturing. Make only one application per season. Effective only on cutting to which applied.
Alfalfa (grown for seed)	Aphids Leafhoppers Lygus bugs Grasshoppers Reduction of Alfalfa Weevil Larvae	3/4 - 1 1/4 pts./acre	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. Do not feed or graze livestock in treated crop hay, threshings or stubble within 10 days of application.
Cotton (grown in Ariz. & Calif.)	Lygus bugs Leafhoppers Thrips Black fleahoppers	3/4 - 1 1/2 pints/acre	Do not apply less than 14 days before harvest. Do not repeat applications within 14 days. Do not feed treated forage or graze livestock on treated fields. Do not apply more than 2 applications per season at the 1 1/2 pint rate.
Cotton (early season)	Aphids, Mites, Thrips, Fleahoppers	1/3 to 2/3 pint/acre	Do not apply less than 14 days before harvest. Do not repeat application within 14 days. Do not feed treated forage or graze livestock on treated fields.
	Lygus Bugs	2/3 pint/acre	
Cotton (Oklahoma, Texas)	Fleahoppers	1/3 to 2/3 pint/acre	Do not apply less than 14 days before harvest. Do not repeat application within 14 days. Do not feed treated forage or graze livestock on treated fields.
Field Corn	Banks Grass Mite (excluding Trans Pecos area of Texas)	1 - 1 1/2 pts./acre broadcast by air. Spray over the foliage when mites appear. Apply in ratio of 1 part DIMETHOATE 267 EC in 20 parts of water. Do not use less than 2 1/2 gals./acre for the 1 pt. rate and 3 3/4 gals./acre for the 1 1/2 pt. rate.	14 (foraging) 42 (grain) Apply as necessary. Make no more than three applications per year. Do not apply to corn during the pollen-shed period.
Safflower (grown in Calif. & Ariz.)	Aphids Leafhoppers Lygus bugs Thrips	3/4 - 1 1/2 pints/acre	Do not apply less than 14 days before harvest. Repeat applications should not be made at intervals closer than 14 days. Make only 3 applications per season at the higher rate.

Sorghum (milo)	Aphids	<p>3/4 to 1 1/2 pts./acre GROUND APPLICATION: Apply above rates in 25 to 40 gallons of water per acre.</p> <p>AERIAL APPLICATION: Apply above rates in a ratio of 1 part Dimethoate 267 EC in 20 parts of water as follows: Rate of minimum gallons Dimethoate 267 EC water/acre.</p> <table border="0"> <tr> <td>3/4 pt.</td> <td>2</td> </tr> <tr> <td>1 pt.</td> <td>2 1/2</td> </tr> <tr> <td>1 1/2 pt.</td> <td>3 3/4</td> </tr> </table> <p>Consult local extension agent for the proper timing of applications in your area.</p>	3/4 pt.	2	1 pt.	2 1/2	1 1/2 pt.	3 3/4	<p>Do not feed or graze within 28 days of last application. Make 3 aerial applications or 3 ground applications as needed per season.</p> <p>DO NOT APPLY AFTER HEADING.</p>
3/4 pt.	2								
1 pt.	2 1/2								
1 1/2 pt.	3 3/4								

Use 1 1/2 teaspoons in 1 gallon of water to control the insects on the ornamental plants listed below.

PLANTS	PESTS CONTROLLED
Azaleas (Outdoor plants)	Lace bugs, leaf miners, mites, tea scale, white flies.
Camellias	<p>Aphids, camellia scale, mites, tea scale.</p> <p>Foliar Spray: Apply 2 sprays, 6 weeks apart the first year, followed by annual applications soon after first growth begins in the spring.</p> <p>Soil Drench: Apply as a soil drench around the base of plants in early spring at the rate of 3 tablespoons in 1 gallon of water per plant up to 6 feet tall. Increase rate proportionately for larger plants.</p>
Carnations	<p>Aphids, thrips, mites.</p> <p>Soil Drench: Apply as a soil drench at the rate of 3 fluid ounces per 500 square feet of bed or bench (7 1/2 quarts per acre) in sufficient water for even distribution. Water in thoroughly after application.</p>

Cyperus	Bactra moth larvae (apply as a drenching spray.)
Boxwood	Leaf miners, mealy bugs, mites. For leaf miners, apply in spring, when leaf miner flies first appear or in early summer for control of larvae in the infested leaves.
Gardenias	Tea scale, whiteflies.
Gerberas	Thrips
Gladiolus	Aphids, thrips.
Poinsettia (Outdoor plants)	Mites, white flies, mealy bugs, aphids.
Ficus nitida (Outdoor plants)	Thrips (do not use on potted plants.)
Holly (English and American, not Burford variety)	Leaf miners, mites, soft scale. For leaf miners, apply in spring when leaf miner flies first appear or in early summer for control of larvae in the infested leaves.

PLANTS	PESTS CONTROLLED
Hemlock	Mites, scale.
Roses (Outdoor plants)	Aphids, leafhoppers, mites, thrips.

Use 1/5 to 1/4 teaspoon in 1 quart of water to control the insects listed below.

Birch	Aphids, leaf miners. For leaf miners, apply when leaves are expanded, about mid-May and repeat in early July.
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NOTE: 1 1/2 teaspoons per gallon is equivalent to 1/2 pint in 32 gallons of water.

Dimethoate 267 EC insecticide is effective generally in controlling aphids, thrips, leaf miners, scale insects, leafhoppers, and mites on certain ornamental plants. Apply sprays uniformly and thoroughly to foliage, except as otherwise stated, when insects first appear, or when damage is first observed, and repeat applications as needed. Do not overdose or overspray. Use only on the ornamental plants listed.

Use 3 teaspoons in 1 gallon of water to control the insects on the ornamental plants listed below.

PLANTS	PESTS CONTROLLED
Arborvitae	Aphids, bagworms, mites.
Cedar	Mites
Daylillies	Aphids, thrips.
Euonymus	Aphids, scale.
Iris	Aphids, iris borer, thrips. For borer control, spray when new leaves are 5 to 6 inches tall.
Juniper	Aphids, bagworms, midges, mites.
Oak	Golden oak scale.
Pine	Aphids, bagworms, European pine shoot moth, Nantucket pine tip moth, Zimmerman pine moth.
Taxus (Upright or spreading yew)	Fletcher scale, mealy bugs, mites.

CONTROL OF HOUSEFLIES

RESIDUAL SPRAY - To control houseflies in dairy barns, hog pens, calf barns, loafing sheds, poultry houses, and other farm outbuildings, apply a 1 percent residual spray to ceilings, walls, stanchions, and other surfaces on which flies congregate or rest. Prepare the spray by mixing 3 quarts in 25 gallons of water (1/2 pint in 2 gallons). Apply the spray to wet uniformly all fly-resting areas to the point of runoff. One gallon of spray will cover 500 to 1,000 square feet of wall or ceiling surface. Repeat applications as necessary.

Remove dairy animals, calves under one month of age, and poultry from buildings when applying residual sprays.

SPOT SPRAY - To control houseflies in localized areas, apply a spray made by mixing 5 fluid ounces (10 tablespoons) per gallon to surfaces around doorways and windows, in alleyways and feed rooms, and to other spots frequented by flies. Repeat as necessary.

GOOD SANITATION IS A NECESSARY PART OF ANY EFFECTIVE FLY CONTROL PROGRAM.

MAGGOT SPRAY - To control housefly maggots, mix 5 fluid ounces (10 tablespoons) per gallon and apply as a coarse spray or with a sprinkling can to fly-breeding media, such as poultry droppings in caged layer houses, garbage dumps and manure piles. Repeat applications if additional manure or garbage is added.

DO NOT CONTAMINATE FEED OR FOODSTUFFS, DRINKING FOUNTAINS, FEED TROUGHS, AND LITTER. DO NOT USE IN MILK PROCESSING ROOMS, MILK HOUSES, AND MILK STORAGE ROOMS. DO NOT USE IN HOMES.

OUTSIDE SPRAY - To control houseflies around home and recreation areas, animal quarters, food processing plants, warehouses, loading docks, and refuse areas, thoroughly spray exposed surfaces, such as walls, fences, garbage cans, and refuse containers with 1/2 pint in 2 gallons of water (2 tablespoons in 1 quart). Repeat as necessary.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Avoid temperature extremes. Shake well before using.

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 incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND LIMITATION OF DAMAGES

Seller warrants that this material 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 and **Buyer** assumes the risk of any use contrary to such directions. **Seller** makes no other express or implied warranty, including any other express or implied warranty of **Fitness** or of **Merchantability** and no agent of **Seller** is authorized to do so except in writing with a specific reference to this warranty. In no event shall **Seller's** liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

CO-OP® is a Registered Trademark of Universal Cooperatives, Inc.
Universal Cooperatives, Inc., Minneapolis, Minnesota 55440