

MAY 25 1993

5441393 $\frac{360}{18}$

Ms. Bethany G. Hulcy
Gowan Company
P. O. Box 5569
Yuma, AZ 85366-5569

Dear Ms. Hulcy:

Subject: Gowan Dimethoate E267
EPA Registration No. 10163-56
Your Application for Pesticide Amendment
Dated March 23, 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:

1. In accordance with PR Notice 93-3 the sentence under the ENVIRONMENTAL HAZARDS section, "Do not apply directly to water or wetlands." must be changed to read:

"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."

2. Under the Directions for Use section, FIELD CROPS, ALFALFA the sentence that reads, "Do not apply during bloom period." is in conflict with the revised auxiliary bee statement you have added. Only one of these statements must be used.
3. In accordance with the March 1983 "DIMETHOATE Pesticide Registration Standard (035001), under the Directions for Use section, FIELD CROPS, FIELD CORN remove the statement "if bees are actively foraging in the treated area" so that the sentence reads:

"Do not apply to corn during the pollen-shed period."

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.

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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). Further guidance will be issued. According to 40 CFR 156 subpart K, specifically §156.200(c)(3): "No product to which this subpart applies shall be distributed or sold without amended labeling by any registrant after April 21, 1994."

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							

GOWAN DIMETHOATE E267

3 of 5

ACTIVE INGREDIENT:

Dimethoate - (O,O-dimethyl S-[N-(methylcarbamoyl)methyl] phosphorodithioate) 30.5%

INERT INGREDIENTS: 69.5%

TOTAL 100.0%

*Contains 2.67 lbs. Dimethoate per gallon

KEEP OUT OF REACH OF CHILDREN WARNING-AVISO

ACCEPTED
with COMMENTS
in EPA Letter Dated:

MAY 25 1993

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

10163-56

PRECAUCION AL USARIO: Si usted no lee Inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

NOT FOR USE OR STORAGE IN OR AROUND HOME

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

May be fatal or harmful if swallowed. Vapor harmful. Avoid breathing vapor or spray mist. Use only with adequate ventilation. Wash thoroughly after handling. Do not contaminate food or feed products. Avoid contact with skin and eyes.

Concentrated material causes eye irritation. In case of contact with eyes, flush eyes with plenty of water for at least fifteen minutes.

NOTE TO PHYSICIAN: This product upon use may cause cholinesterase inhibition. Atropine is antidotal. Pralidoxime chloride (2-PAM; PROTOPAM chloride) may be effective as an adjunct to atropine. Use according to label directions.

ENVIRONMENTAL HAZARDS

Pesticide is toxic to wildlife and aquatic invertebrates. Do not apply directly to water or wetlands. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning equipment or disposal of wastes.

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.

DIRECTIONS FOR USE

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

RE-ENTRY STATEMENTS

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.

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. 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. 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 and oral warnings must include the following information: WARNING - Area treated with DIMETHOATE on (date of application). Do not enter without appropriate protective clothing until sprays have dried. For citrus, do not enter without appropriate protective clothing for four days. In case of accidental exposure, see PRECAUTIONARY STATEMENT ITS.

REQUIRED CLOTHING AND EQUIPMENT FOR APPLICATION

All applications, including homeowners, flaggers and 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 (rubber or plastic covered reinforced)
- b) boots or boot covers
- c) long sleeve shirt and 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.

STORAGE AND DISPOSAL

DO NOT use, pour, spill or store near heat or open flame.
 DO NOT contaminate water, food or feed by storage or 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 procedures approved by state and local authorities.

CHEMIGATION STATEMENT

Do not apply this product through any type of irrigation system.

DIRECTIONS FOR USE

This product may be applied by ground concentrate or dilute equipment or by air. See DILUTION DIRECTIONS for water rates. The required days between the last application and harvest are given in parenthesis after each crop name.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME

NET CONTENTS _____ GALLONS

Gowan Company

EPA Reg. No. 10163-56
EPA Est. No. 10163-AZ-1

P.O. Box 5569
Yuma, AZ 85366

rev. 10/92

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GOWAN DIMETHOATE E267

Directions For Use

Gowan Company

P.O. Box 5569
Yuma, AZ 85366-5569

EPA Reg. No. 10163-56
EPA Est. No. 10163-AZ-1

DILUTION DIRECTIONS

The rate required for thorough, uniform coverage varies with plant growth at time of application. The following rates are therefore intended to cover a broad range of conditions.

Dilute Application

Field and Vegetable Crops: Apply specified rate in 20 to 75 gallons of water per acre.
Fruits and Nuts: Apply specified rate in 100 to 800 gallons of water per acre.
For citrus, use up to 2,000 gallons of water per acre.

Concentrate Application

Field and Vegetable Crops: Apply specified rate in not less than 5 gallons of water per acre.
Fruits and Nuts: Apply specified rate in 20 to 100 gallons of water per acre. These applications require special concentrate equipment.

Air Application

Field and Vegetable Crops: Apply specified rate in a minimum of 1 gallon of water per acre.

Fruits and Nuts: Apply specified rate in a minimum of 5 gallons of water per acre. Do not apply when weather conditions favor drift of spray from areas treated. Repeat applications as necessary unless otherwise specified. Consult your state experiment station or extension service for proper timing of applications.

FRUIT

APPLES: (28 days) Apple maggot, Codling moth: Use 1½ pints per 100 gallons of water in dilute application or 6 pints per acre in concentrate or aerial application. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom. Apply at petal-fall and every 10 to 14 days thereafter until control is achieved. Under heavy infestations, some sting injury may occur. Do not graze livestock in treated orchards. (**Codling moth in midwest and eastern states only.)

PEARS: (28 days) Aphids, Leafhoppers, Mites (except rust mites), Pear psylla: Use ¾ to 1½ pints per 100 gallons of water in dilute application or 3 to 6 pints per acre in concentrate or aerial application. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom. Do not graze livestock in treated orchards.

CHERRIES (SWEET AND TART) (28 days) (Based on available residue data, use of this product on cherries is restricted to Oregon) Aphids, Cherry fruit flies, Mites: Dilute Application: Use 1½ pints per 100 gallons. Concentrate Application: Use 3 to 6 pints per acre. On mature tart cherries, use 4½ pints per acre. On mature sweet cherries, use 6 pints per acre. Apply a minimum spray volume of 50 gallons per acre. 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.

CITRUS (GRAPEFRUIT, LEMONS, ORANGES, TANGERINES): (15 days) Dilute Ground Application: Aphids: Use ¾ to 1½ pints per 100 gallons of water as an outside coverage spray. Mites (except rust mites): Use ¾ to 1½ pints per 100 gallons water as a thorough distribution coverage spray. Scales (except Black or Snow): Use 1½ to 2½ pints per 100 gallons water as a thorough coverage spray. Thrips: Use ¾ to 1½ pints per 100 gallons water as a mist spray. Whiteflies: Use 1½ pints per 100 gallons of water as a thorough distribution coverage spray. Concentrate Ground And Aircraft Applications: Aphids, Mites (except Rust mites), Scales (Except Black or Snow), Thrips, Whiteflies: Use 3-6 pints per acre.

NONBEARING CITRUS AND NURSERY STOCK (CALIFORNIA AND ARIZONA): Thrips, Aphids: Foliar Spray—Use 1½ pints per 100 gallons of water. Repeat applications as necessary. Soil Drench (trees 1 to 3 years old)—Use 3 quarts per acre applied in the furrow or basin around the base of the tree. Apply when insect injury to new growth appears. Do not apply soil drench to trees which will bear fruit within one year.

OBSERVE THE FOLLOWING FOR CITRUS APPLICATIONS:

Consult your State Agricultural Experiment Station or State Agricultural Extension Service for proper timing of applications. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom. Do not use on citrus seedlings.

4 days of last application. Do not graze livestock in treated orchards.

NUTS

PECANS: (21 days) Aphids, Mites, Leafhoppers: Use 1 pint per acre. Do not graze livestock in treated groves.

VEGETABLE CROPS

BEANS (GREEN, LIMA, SNAP, DRY): (0 days) Aphids, Leafhoppers, Leaf miners, Mites, Lygus Bugs: Use ¾ to 1½ pints per acre. 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 the crop or weeds are in bloom.

BROCCOLI, CAULIFLOWER: (7 days) Aphids: Use ¾ to 1½ pints per acre.

CABBAGE: (7 days) Aphids: Use ¾ to 1½ pints per acre.

CELERY (FLORIDA): (7 days) Leaf Miners: Use 1 pint per acre.

HEAD LETTUCE: (7 days) Aphids, Leafhoppers, Leaf miners: Use ¾ pint per acre.

LEAF LETTUCE, SPINACH, COLLARDS, KALE, TURNIP (GREENS AND ROOTS),

MUSTARD GREENS, SWISS CHARD, ENDIVE (ESCAROLE): (14 days) Aphids,

Leafhoppers, Leaf miners, Mites: Apply ¾ pint per acre.

LENTILS: (7 days) Aphids: Use ¾ pint per acre. Lygus bugs: Use 1½ pints per acre.

Do not feed or graze hay or treated vines.

Do not make more than one application per season.

This pesticide is highly toxic to bees, do not apply if bees are visiting the areas to be treated when the crop or weeds are in bloom.

MELONS: (3 days) Aphids, Leafhoppers, Leaf miners: Use 1½ pints per acre. Also see watermelons.

PEAS: (0 days) Aphids: Use ½ pint per acre. 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 apply more than once per season.

This pesticide is highly toxic to bees, do not apply if bees are visiting the areas to be treated when the crop or weeds are in bloom.

PEPPERS: (0 days) Aphids, Leaf miners, Maggots: Use ¾ to 1 pint per acre.

POTATOES: (0 days) Aphids, Leaf miners, Leafhoppers: Use ¾ to 1½ pints per acre.

TOMATOES: (7 days) Aphids, Leaf miners, Leafhoppers: Use ¾ to 1½ pints per acre.

WATERMELONS: (3 days) Aphids, Leafhoppers, Leaf miners, Mites: Use ¾ to 1½ pints per acre.

Where cabbage worms and cabbage loopers are a problem, the above rates of GOWAN DIMETHOATE E267 are compatible with endosulfan, malathion or parathion. Use in accordance with the manufacturer's directions for control of these insects.

FIELD CROPS

ALFALFA: (10 days) Aphids, Leafhoppers, Lygus bugs, Grasshoppers, reduction of Alfalfa weevil larvae: Apply ¾ to 1½ pints per acre. Do not apply during bloom period. Make only one application per cutting. Effective only on cutting to which applied. Do not apply within 10 days of pasturing.

This pesticide is highly toxic to bees, do not apply if bees are visiting the areas to be treated when the crop or weeds are in bloom.

FIELD CORN: (14 days) Banks grass mites (excluding Trans-Pecos area of Texas), Aphids, Bean beetle, Corn rootworm adult: Use 1 to 1½ pints per acre. Apply as necessary. Make no more than three applications per year. Do not feed or graze within 14 days of last application. Do not apply to corn during the pollen-shed period if bees are actively foraging in the treated area.

COTTON (ARIZONA AND CALIFORNIA): (14 days) Lygus bugs, Fleahoppers, Black fleahoppers: Use ¾ to 1½ pints per acre. Repeat applications should not be made at intervals closer than 14 days. Make only 2 applications per season at higher rate. Do not feed treated forage or graze livestock on treated fields.

COTTON (EXCEPT ARIZONA AND CALIFORNIA): (14 days when water is used for dilution; 40 days when once refined vegetable oil is used for dilution) Aphids, Mites, Thrips, Fleahoppers: Use ½ to ¾ pint per acre. Plant bugs: Use ½ pint per acre. Do not feed treated forage or graze livestock in treated fields.

For Water Dilution: Repeat applications should not be made at intervals closer than 14 days.

For Once Refined Vegetable Oil Dilution: Repeat applications should not be made at intervals closer than 40 days. Make only one application per season at higher rate. Apply at least one quart of finished spray per acre.

SAFFLOWER (ARIZONA AND CALIFORNIA): (14 days) Aphids, Leafhoppers, Lygus Bugs, Thrips: Use 2 pints per acre. Repeat applications should not be made at intervals closer than 14 days. Do not feed treated forage or graze livestock on treated fields. Make no more than 2 applications per season.

SORGHUM (MILO): (28 days) Aphids: Use ¾ to 1½ pints per acre. Banks grass mite (excluding Trans-Pecos area of Texas) Spider mites, Grasshoppers: Use 1½ pints per acre. Sorghum midge: Use ½ to ¾ pint per acre. Do not feed or graze within 28 days of last application. Make no more than three applications as needed per season. Do not apply after heading.

SOYBEANS: (21 days) Mexican bean beetle, Spider mites, Bean leaf beetle, Leafhoppers, Three cornered alfalfa hopper, Grasshoppers: Use 1½ pints per acre. Do not feed or graze within 5 days of last application.

WHEAT: (60 days) Aphids: Use ¾ to 1 pint per acre. Brown wheat mite: Use ½ to ¾ pint per acre. Grasshoppers: Use 1 pint per acre. Do not apply within 14 days of grazing immature plant. Do not apply more than twice per season.

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SEED CROPS

ALFALFA: Aphids, Leafhoppers, Lygae bugs, Grasshoppers, reduction of
Alysiid weevil larvae. Apply $\frac{1}{4}$ to 1 pint per acre. Do not feed or graze livestock on
treated crop, hay, screenings or stubble within 10 days of application.

This pesticide is highly toxic to bees, do not apply if bees are
visiting the areas to be treated when the crop or weeds are in
bloom.

Notice On Conditions Of Sale

Our recommendations for use of this product are based upon tests believed to
be reliable. The use of this product being beyond the control of the manufacturer,
no guarantee, expressed or implied, is made as to the effects of such or the
results to be obtained if not used in accordance with directions or established
safe practice. The buyer must assume all responsibility including injury or
damage, resulting from its misuse as such, or in combination with other
materials.

