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

Dear Ms. Hulcy:

Subject: Gowan Dimethoate 4 EPA Registration No. 10163-160 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, add the statement "for terrestrial uses" to the beginning of the second sentence of the ENVIRONMENTAL HAZARDS section.
- 2. In accordance with the March 1983 "DIMETHOATE Pesticide Registration Standard (035001), under the CROP USE DIRECTIONS, 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."

3. According to our files the tolerance for cabbage will be exceeded utilizing a 3-day PHI. The PHI for cabbage should be changed to 7 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.

A stamped copy of the lebelin is enclosed for your records.								
SYMBOL -	Note	that th	isaccepta	nce. of	ur label	does not.	relieve.	011
DATE								
EPA Form 1320-1A (1/90)				Printed on Recycled Paper			OFFICIAL FILE COPY	
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TENTS EPA Latter Dated: MAY 2 5 1993 Under the Federal Insection, Funcicide, and Rodentica. nded, for the post-

GOWAN DIMETHOATE 4

Active Ingredient: Dimethoate

(O,O-dimethyl S-{(methylcarbamoyl) methyl] phosphorodithioate)

Total 100.0%

* Contains 4 pounds of Dimethoate per gallon

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

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

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED, do not induce vomiting. Call a Poison Control Center immediately. Get medical attention.

IF INHALED, remove victim to fresh air. Apply artificial respiration if necessary.

IF ON SKIN, wash with plenty of soap and water. Get medical attention. **IF IN EYES**, flush eyes with plenty of water. Seek medical attention.

NOTE TO PHYSICIAN: Atropine is antidotal if symptoms of cholinesterase inhibition are present. 2-PAM: PROTOPAM chloride may be effective as an adjunct to atropine. Use according to label directions.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Warning - Harmful or fatal if swallowed. Vapor harmful concentrated material. Avoid breathing vapor or spray mist. Use only with adequate ventilation. Avoid contact with eyes as this product causes eye; irritation; Avoid contact with skin, and clothing. Wash thoroughly after hendling and before eating, drinking, toileting or using tobacco. Keep' container' lid closed. Do not contaminate food or feed products.

REQUIRED CLOTHING AND EQUIPMENT FOR APPLICATION

All applicators, including flaggers and all personnel associated 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:

- 1. Impermeable gloves (for example- rubber or plastic covered reinforced gloves).
- 2. Boots or boot covers.
- 3. Long-sleeved shirt and long pants.
- 4. Wide-brimmed hat.

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5. Respirators must be worn by flaggers and mixors/loaders.

AERIAL APPLICATIONS: 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to wildlife and aquatic invertebrates. Do not apply directly to water, 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 when disposing of equipment wash waters.

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 Service.

PHYSICAL AND CHEMICAL HAZARDS

Combustible liquid and vapor. Do not use, pour, spill, or store near heat or open flame.

DIRECTIONS FOR USE

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

REENTRY STATEMENT

Do not enter treated areas without appropriate protective clothing, until sprays have dried. Protective clothing means, at least, a hat or other suitable head covering, a long-sleeved shirt and long-legged pants or a coverall type garment (all of closely woven fabric covering, the body, including the arms and legs), shoes and socks.

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. Do not apply this product in such a manner as to directly or through drift expose workers or other 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. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written or oral warnings must include the following information: Warning - Area treated with Dimethoate on (date of application). Do not enter treated area without appropriate protective clothing until sprays have dried (or other reentry interval if your State has a more restrictive interval for this product). For citrus do not enter treated area without appropriate protective clothing for four (4) days. In case of accidental exposure, follow instructions under "STATEMENT OF PRACTICAL TREATMENT" section

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

STORAGE: Store in original container. DO NOT STORE BELOW 45° F

PESTICIDE DISPOSAL: Posticide 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: Plastic-triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal- 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.



YUMA, AZ 85366

EPA Est. No. 1016

EPA Reg. No. 10163-160

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GOWAN DIMETHOATE 4

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DIRECTIONS FOR USE



P.O. BOX 5569 YUMA, AZ 85366-5569

EPA Reg. No. 10163-160 EPA Est. No. 10163-AZ-1

DIRECTIONS FOR USE

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

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DIRECTIONS FOR APPLICATION

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

COMPATIBILITY

DIMETHOATE 4 is formulated for application in water suspensions. It is compatible with most insecticides, fungicides, and miticides It should not be used, however, with alkaline materials such as Bordeaux mixture and lime.

Gowan Dimethoate 4 can be mixed with carbaryl, diazinon, pyrethroids, methyl azinphos, malathion, parathion, dicofol, dodine, captan, zineb, and thiram. Because uniform dispersability and sprayability may be influenced by pesticide combinations used, it is recommended that compatibility be determined before adding pesticides to the spray tank. In a pint or quart jar, mix products and water proportionate to the intended tank mix. If there is any separation, we recommend that the combination not be used. The addition of a nonionic general purpose spreader-activator will usually eliminate any incommatibility noted.

DILUTION DIRECTIONS

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

Dilute Applications: 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 Applications: 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 Applications: 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.

CHEMIGATION STATEMENT

Refer to supplemental labeling entitled "APPLICATION THROUGH IRRIGATION SYSTEMS, CHEMIGATION" for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

CROP USE DIRECTIONS

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

The interval between last application and harvest is given in () following the crop name.

FIELD CROPS

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Alfalfa: (10) Aphids, Grasshoppers, Leafhoppers, Plant Bugs including Lygus, reduction of Alfalfa Weevil larvae; Use 1/2 to 1 pint per acre. 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. Do not graze livestock in the treated crops, hay, threshings, or stubble within 10 days of application. Effective only on cutting to which applied. Limit use to one application per cutting.

Alfalfa (seed crop only): Aphids, Grasshoppers, Leafhoppers, Lygus Bugs, reduction of Alfalfa Weevil larvae; Use 1/2 to 1 pint per acre. This pesticide is highly toxic to bees, do not apply if bees are visiting the areas to be troated when the crop or weeds are in bloom. Do not feed livestock in treated crops, hay, threshings, or stubble within 10 days of application.

Field Corn: (14) Banks Grass Mites (excluding Trans-Pecos area of Texas), Aphids, Bean Beetle, Corn Rootworm adult; Use 2/3 to 1 pint per acre. Grasshoppers; Use 1 pint per acre. Do not apply to corn during the pollenshed period if bees are actively foraging in the treatment area. Apply as necessary but make no more than three applications per year. Do not feed or graze within 14 days of last application.

Cotton(Arizona and California): (14) Leafhoppers, Fleahoppers, Plant Bugs including Lygus; Use 1/2 to 1 pint per acre. Repeat applications should 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.

Cotton (Except Arizona and California): (14 if water is used for dilution, 40 if once-refined vegetable oil is used for dilution) Aphids, Mites, Thrips, Fleahoppers; Use 1/4 to 1/2 pint per acre. Plant Bugs including Lygus; Use 1/2 pint per acre. If water is used for dilution, repeat applications should not be made at intervals closer than 14 days. Do not feed treated forage or graze livestock on treated fields. If once-refined vegetable oil is used for dilution, repeat applications should not be made at intervals closer than 14 days. Make only 2 applications per season at the higher rate. Apply at least 1 quart of finished spray per acre. Do not feed treated forage or graze livestock on treated fields.

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Safflower (Arizona and California): (14) Aphids, Leafhoppers, Plant Bugs including Lygus, Thrips; Use 1/2 to 1 pint per acre. Repeat applications should not be made at intervals closer than 14 days. Make only 2 applications per season at the higher rate.

Sorghum (milo): Aphids; Use 1/2 to 1 pint per acre. Banks Grass Mites (excluding Trans-Pecos area of Texas), Grasshoppers, Spider Mites; Use 1 pint per acre. Sorghum Midge; Use 1/4 to 1/2 pint per acre. Do not apply after heading. Do not feed or graze within 28 days of last application. Apply as needed but not more than 3 applications per season.

Soybeans: (21) Mexican Bean Beetle, Spider Mites, Bean Leaf Beetle, Leafhoppers, Three-cornered Alfalfa Hopper *, Grasshoppers; Use 1 pint per acre. Do not feed or graze within 5 days of last application. *Not registered in California

Wheat: (35) Aphids; Use 1/2 to 3/4 pint per acre. Brown Wheat; Mite; Use 1/3 to 1/2 pint per acre. Grasshoppers; Use 3/4 pint per acre. Do, not apply within 14 days of grazing immature plant. Do not make more than 2 applications per season.

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

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VEGETABLE CROPS

Beans (green, lima, snap, dry): (0) Aphids, Grasshoppers, Leafhoppers, Leaf Miners, Lygus Bugs, Mites, Bean Leaf Beetle, Mexican Bean Beetle; Use 1/2 to 1 pint per acre. 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. Do not feed treated vines.

Broccoli, Cauliflower: (7) Aphids; Use 1/2 to 1 pint per acre.

Cabbage: (3) Aphids; Use 1/2 to 1 pint per acre.

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pint per acre.

Celery (Florida): (7) Leaf Miners; Use 1 pint per acre.

Head Lettuce: (7) Aphids, Leafhoppers, Leaf Miners; Use 1/2 pint per acre.

Leaf lettuce, Spinach, Collards, Kale, Turnip (greens and roots), Mustard Greens, Swiss Chard, Endive (Escarole): (14) Aphids, Leafhoppers, Leaf Miners; Use 1/2 pint per acre.

Melons (except Watermelons): (3) Aphids, Leafhoppers, Leaf Miners, Thrips; Use 1 pint per acre.

Watermelons: (3) Aphids, Leafhoppers, Leaf Miners; Use 1/2 to 1 pint per acre.

Lupine: (0) Aphids, Lygus Bugs; Use 1/2 to 1 pint per acre. Apply when Aphids first appear. 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. Do not make more than 2 applications per crop season. Do not feed or graze forage or hay.

Peas, Lentils: (0) Aphids; Use 1/3 pint per acre. Do not feed or graze hay within 21 days after last application. Do not make more than one application per growing 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) Aphids, Leaf Miners, Maggots; Use 1/2 to 2/3 pint per acre. Potatoes: (0) Aphids, Grasshoppers, Leafhoppers, Leaf Miners; Use 1/2 to 4

Tomatoes: (7) Aphids, Leafhoppers, Leaf Miners; Use 1/2 to 1 pint per acre.

FRUIT AND NUT CROPS

Apples: (28) Apple Maggot, Codling Moth*; Use 3 to 4 pints per acre (or Northeast and North Central states; Use 1 pint per 100 gallons based on 300 to 400 gallons of water per acre). Apply at petal-fall and every 10-14 days thereafter until control is achieved. Under heavy infestations, some sting injury may occur. Do not apply when trees or substantial number of weeds in the orchard are in bloom. Do not graze livestock in treated orchards.

* Midwest and Eastern states only.

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Apples, Pears: (28) Aphids, Leafhoppers, Mites (except Rust Mites); Use 1 1/2 to 3 pints per acre (or Northeast and North Central states; Use 1/2 to 1 pint per 100 gallons based on 300 gallons of water per acre). Do not apply when trees or substantial number of weeds in the orchard are in bloom. Do not graze livestock in treated orchards.

Grapefruit, Lemons, Oranges, Tangerines: (see text below for harvest intervals) Aphids; Use 1 to 2 quarts per acre in 5 to 10 gallons of water. Apply as an outside coverage spray. The interval betwise last application and harvest is 15 days. Mites (except Rust Mites); Use 1/2 to 1 pint per 100 gallons of water with a maximum of 2 quarts per acre. The interval between last application and harvest is 15 days. Scales (except Black or Snow); Use 1 to 1 1/2 pints per 100 gallons or equivalent amount in concentrated spray. Apply as thorough coverage spray. The interval between last application and harvest is 45 days. Thrips; Use 1 to 2 quarts per acre in 5 to 10 gallons of water applied as a mist spray. The interval between last application and harvest is 15 days. Whiteflies; Use 3 to 4 pints per acre applied as a thorough distribution coverage spray. The interval between last application and harvest is 15 days. Do not apply during bloom period. Do not use on citrus seedlings. Make no more than 2 applications to mature fruit. Do not enter treated groves within 4 days of last application. Do not graze livestock in treated orchards.

Citrus (Arizona and California)(Non-bearing and nursery stock): Aphids, Thrips; Use 3 to 4 pints per acre as a foliar spray. 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 without appropriate protective equipment. Dc not graze livestock in treated groves. For soil drench (1-3 year old trees); Use 2 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 to trees that will bear fruit within one year. Do not graze livestock in treated groves.

Pecans: (21) Aphids, Mites, Leafhoppers; Use 2/3 pint per acre. Do no. graze livestock in treated groves.

APPLICATION THROUGH IRRIGATION SYSTEMS CHEMIGATION Apply this product only through aprintider, including center phrot, lateral move, and low side (whitee) roll, traveler, big pun, sold set, or hand move, ficod (basin) turrow, border or drip (trictide) impation systems. Do not apply this product through any other type of impation system. Crop injury, lack of effectiveness, or llegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Entersion. Service specialists, equipment menufacturers or other

Do not connect an infigation system (including greenhouse system) used for prestricts application to a public water system unless the petitic for prestricts and inspection of the chemigation system and responsible person, she in place.
Appreciable of the chemigation system and responsible person, the system town and make necessary adjustments should the need arise.
Mix in clean supply tank the nocommended amount of this product for acreage to be covered, and needed quantity of water.
This product should not be tank-mixed with other pesticides, surfactors for acreage to be covered, and needed quantity of water.
On all crops, use sufficient gallonege of water to obtain thorough and with other pesticides.
Mix any depending on equipment, peet products.
Mere this product into the imigation water uniform and stage of crop provin. Application of more or less than optimal quantity of water nerve the period of operation. Do not overlap application. Follow recommended label period of operations for all user for presented is uniformed with decreased chemical performance, crop injury or linguing residues.
Mere this product into the imigation water uniform the period of operation. Do not overlap application. Follow recommended label and the period of period with a period of the state of the supply task and precautions for a supply task negative is any product into the imigation water uniform the uniform the period of operation the imigation, period and precautions for complexitors and precautions for a number of hours to emply.

CHEMICATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS Nos: Common Company does not ancourage connecting chamigation systems to public weak supplies. The following information is provided for users who have diligantly considered all other applica-tion and weak supply options before electing to make such a connection. Public weak system means a system for the provision to the public of piped weaker for human consumption II such system has at least 18 service connections or regularly serves an average of at least 18 service connections or regularly serves an average of at least 18 service connections or regularly serves an average of at least 25 individuals daily at least 90 days out of the year. Chamigation systems connected to public weak systems must contain a lunc-

tional induced-pressure zone, backfow preventer (RPZ) or the functional equivalent in the water supply the upstream from the point of peaktide introduction. As an option to the RPZ, the water from the public vater system should be discharged into a reservoir tank prior to peaktide introduction. There shall be a complete physical break (air gap) between the outlet (ind of the Riplpe and the top or overflow fit of the meenvoir tank of at baset twice the inside diameter of the 2

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It is preserved injection pipeline must contain a functional, automatic, such closing check valve to prevent the flow of fluid back toward the tryaction pump.
The passicide injection pipeline must contain a functional, normally closed, aclenoid operated valve located on the intake side of the hjection pump and connected to the system interlock to prevent fluid from being withdrawn from u. supply tank when the intigation system is although or uranity studiown.
The passicide injection passion functional interlocking controls to automate although or its interlocking controls to automate site of the passicide injection pump when the value pump, when the passion must contain functional interlocking controls to automate stope, or in cases where there is no value pump, when the value pressure decreases to the point where passicide distribution is activated.
Systems must use a matering pump, such as a positive displacement injection pump (e.g., displarage pump) effectively designed and constructed of materials that are compatible with passicides and capable of being fitted with a system interlock.
Do not apply when wind speed favors drift beyond the area intended for treatment.

DRIP (TRICKLE) CHERT The system must contain a poster must contain a prevent water and pipeline to prevent water an The pesticide injection pipelin quick-closing check velve top injection pump. The pesticide injection pipe normally closed, actenoid-op of the injection pipelin huid from baing withdrawn to system is either automatical the system must contain tu metically shut off the pesticid motor stops. The injection line or water pu switch which will stop the water decreases to the point whe affected. Systems must use a meter p injection pump (e.g., dispin constructed of materials the constructed of materials the

SPRANKLER CHEIMAGATION (FOLLAR BPRAY USES) The system must contain a functional check valve, vacuum relativate, and low present each appropriately located on the impation pipeline to prevent water source containination from backflow. The pesticide injection pipeline must contain a functional, automativ, quick-closing check valve to prevent the flow of fluid back loward the injection pump. The pesticide injection pipeline must also contain a functional, normely chosed, solenoid-operated valve located on the inteless of the injection pump and connected to the system interfock to prevent fluid from being withdrawn from the supply tank when the interfact system must contain functional interfocking controls to auto-matically shut off the pesticide injection pump when the water pump motor stops. The irrigation fire or water pump must include a functional preseure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive dispined and constructed of materials that are compatible with pesticides and capable of being fitted with a system interfock. Do not apply when wind speed tavons drift beyond the area intended for treatment.

FLOOD (BASEN) FURTHOW AND BORDER CHEMICATTOM (BOIL DRENCH USES) Systems using a gravity flow peeticide depensing system must meler the peeticide into the water at the head of the field and downatream of a hydrautic decontinuity such as drop structure or we'r box to decrease potential for water source contamination from backflow it water flow stops. Systems uffizing a preseurized water and peeticide injection system must meet the following requirements: a. The system must contain a functional check valve, vacuum relief valve, and the preseure drain appropriately located on the brigation pipeline to prevent water source contamination from backflow. The peeticide injection pipeline must contain a functional, mail, quick-dowing check valve to prevent he flow offly 't a the injection pump.

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 a. The inigitic: The orr pressure serial witch witch with pressure serial witch witch with the pressure decreases to the pressure decreases to the pressure decreases to the pressure decreases to the deplecement hybridian pump designed and constructed to pressure decreases.

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.

ALL APPLICABLE RESTRICTIONS, PRECAUTIONS, AND DIRECTIONS ON THE EPA REGISTERED PRODUCT LABEL MUST BE FOLLOWED

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