

10163-160

09/01/2005

1/11

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



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

September 1, 2005

Ms. Rebecca Hargadine
Gowan Company
P.O. Box 5569
Yuma, AZ 85366

Dear Ms. Hargadine:

Subject: Revised Labeling for EPA Reg. No. 10163-160
Gowan Dimethoate 4
Use Deletions of Dimethoate as Requested by the Agency
Your Submission Dated July 27, 2005

The label for the product referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided you make the following changes to the label:

1. The following uses have been added to the label since the last stamped accepted label and must be deleted:
 - a. Under Field Crops, delete sainfoin, birdsfoot, and triticale.
 - b. Under Vegetable Crops, delete chinese broccoli, chinese cabbage
 - c. Under Seed Crops, delete sainfoin and birdsfoot.

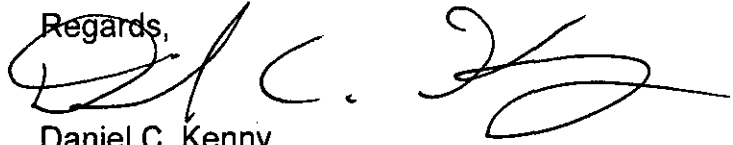
With the exception of birdsfoot (trefoil), which is no longer an allowable use of dimethoate, all other crops can be added through the amendment process with proper data compensation.

2. Modify the statement appearing under the "Vegetable Crops" heading to read, "Do not use on seed onions, seed carrots, or seed bermuda grass." This statement should be moved to appear under the "Field Crops" heading.
3. Under Shade and Ornamental Tree and Plants, the following statement must be added, "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."

2/11

A stamped copy of the label is enclosed for your records. Submit two copies of your final printed labeling before you release the product for shipment. If you have any questions, please contact Ann Hanger at (703) 306-0395 or hanger.ann@epa.gov.

Regards,



Daniel C. Kenny
Product Manager 1
Insecticide/Rodenticide Branch
Registration Division (7505C)

Enclosure (1)

3/11

GOWAN DIMETHOATE 4

ACTIVE INGREDIENT: Dimethoate	% By Wt.
(O,O-dimethyl S-[(methylcarbamoyl) methyl] phosphorodithioate).....	43.5%
OTHER INGREDIENTS	56.5%
	Total 100.0%

Contains 4 pounds of 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 the label, find someone to explain it to you in detail.)

FIRST AID ORGANOPHOSPHATE	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor • Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-888-478-0798 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING-AVISO

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. Keep container lid closed. Do not contaminate food or feed products.

NET CONTENTS _____ GALLONS



EPA Reg. No. 10163-160
EPA Est. No. 67545-AZ-1

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

ACCEPTED
with COMMENTS
In EPA Letter Dated:
SEP 1 2005
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
10163-160

4/11

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils or Viton ≥ 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils or Viton ≥ 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear
- For exposures in enclosed areas - A respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter
- For exposures outdoors - Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P, or HE filter

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, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements: 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)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. AERIAL APPLICATIONS: AUTOMATIC FLAGGING DEVICES SHOULD BE USED WHENEVER FEASIBLE.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to wildlife and aquatic invertebrates. For terrestrial uses, 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 washwaters.

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.

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.

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) and restricted-entry interval. 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) of 48 hours.

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
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils or Viton ≥ 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

PHYTOTOXICITY STATEMENT

As is common with most emulsifiable concentrate formulations, adverse effects such as spotting or discoloration of the fruit or foliage can occur. Some conditions known to contribute to phytotoxicity include, but are not limited to: high temperatures, poor spray drying conditions, excessive spray deposit or runoff, certain spray mixtures, stage of crop development or tank mixes with other pesticides.

5/11

RESISTANCE MANAGEMENT

Based on historical use patterns in some areas, certain pest species listed on this label may have developed resistance to Gowan Dimethoate 4. Consult your local agricultural advisor, State Cooperative Extension Service or regional Gowan Company representative for recommendations.

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 incompatibility noted.

DILUTION DIRECTIONS

The rate required for thorough, uniform coverage varies with plant growth at the time of application. The following rates are therefore intended 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 the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS - CHEMIGATION for use directions for chemigation. Do not apply this product through any irrigation system unless the instructions for chemigation are followed.

PREHARVEST INTERVAL

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

CROP USE DIRECTIONS

FIELD CROPS

CROP	PEST	RATE/ACRE	COMMENTS
ALFALFA, SAINFOIN, BIRDSFOOT (10)	Aphids, Grasshoppers, Leafhoppers, Plant Bugs (including Lygus), reduction of Alfalfa Weevil Larvae	½ - 1 pt.	Effective only on cutting to which applied. Limit use to one application per cutting.
	<ul style="list-style-type: none"> 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. 		
ALFALFA (Seed Crop Only)	Aphids, Grasshoppers, Leafhoppers, Lygus Bugs, reduction of Alfalfa Weevil Larvae	½ - 1 pt.	
	<ul style="list-style-type: none"> 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. 		
FIELD CORN (14)	Banks Grass Mites (excluding Trans-Pecos area of Texas), Aphids, Bean Beetles, Corn Rootworm Adult	2/3 - 1 pt.	Apply as necessary but make no more than three applications per year.
	Grasshoppers	1 pt.	
<ul style="list-style-type: none"> Do not apply to corn during the pollen-shed period. Do not feed or graze within 14 days of last application. 			
COTTON (Arizona and California) (14)	Leafhoppers, Fleahoppers, Plant Bugs (including Lygus)	½ - 1 pt.	Repeat applications should not be made at intervals closer than 14 days. Make only 2 applications per season at the higher rate.
	<ul style="list-style-type: none"> Do not feed treated forage or graze livestock on treated fields. 		
COTTON (Except Arizona and California) (14) or (40)	Aphids, Mites, Thrips, Fleahoppers	¼ - ½ pt.	If water is used for dilution, repeat applications should not be made at intervals closer than 14 days. If once-refined vegetable oil is used for dilution, repeat applications should not be made at intervals closer than 40 days. Make only 2 applications per season at the higher rate. Apply at least 1 quart of finished spray per acre.
	Plant Bugs (including Lygus)	½ pt.	
<ul style="list-style-type: none"> Do not feed treated forage or graze livestock on treated fields. 			

6/11

FIELD CROPS (continued)

CROP	PEST	RATE/ACRE	COMMENTS
GRASS (Grown for Seed) (Idaho, Oregon, and Washington Only) (14)	Aphids, Plant Bugs, Thrips, Winter Grain Mites	½ - ⅓	Apply in a minimum of 2 gals. of water per acre.
	<ul style="list-style-type: none"> Do not graze or use seed or seed screenings for livestock feed or food purposes. 		
SAFFLOWER (Arizona and California) (14)	Aphids, Leafhoppers, Plant Bugs (including Lygus), Thrips	½ - 1 pt.	Repeat applications should not be made at intervals closer than 14 days. Make only 2 applications per season at the higher rate.
SORGHUM (milo) (28)	Aphids	½ - 1	Apply as needed but not more than 3 applications per season.
	Banks Grass Mites (excluding Trans-Pecos area of Texas), Grasshoppers, Spider Mites,	1 pt.	
	Sorghum Midge	¼ - ½ pt.	
<ul style="list-style-type: none"> Do not apply after heading. Do not feed or graze within 28 days of last application. 			
SOYBEANS (21)	Mexican Bean Beetles, Spider Mites, Bean Leaf Beetles, Leafhoppers, Three-cornered Alfalfa Hoppers (except CA), Grasshoppers	1 pt.	
	<ul style="list-style-type: none"> Do not feed or graze within 5 days of last application. 		
WHEAT, TRITICALE (35)	Aphids	½ - ¾ pt.	
	Brown Wheat Mite	⅓ - ½ pt.	
	Grasshoppers	¾ pt.	
<ul style="list-style-type: none"> Do not apply within 14 days of grazing immature plants. Do not make more than 2 applications per season. 			

VEGETABLE CROPS

CAUTION: DO NOT USE ON SEED ONIONS OR SEED CARROTS.

CROP	PEST	RATE/ACRE	COMMENTS
ASPARAGUS (Except CA and AZ)(180)	Aphids, Asparagus Beetle	1 pt.	Use specified rate per acre not to exceed 5 pts. per acre per year.
BEANS (Green, Lima, Snap, Dry) (0)	Aphids, Grasshoppers, Leafhoppers, Leafminers, Lygus Bugs, Mites, Bean Leaf Beetles, Mexican Bean Beetles	½ - 1 pt.	<ul style="list-style-type: none"> 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	½ - 1 pt.	
CHINESE BROCCOLI (gai lan, white flowering broccoli) (7)	Aphids	½ - 1 pt.	
BRUSSELS SPROUTS (California Only) (10)	Aphids	1 - 2 pts.	Apply in a minimum of 100 gals. of water by ground equipment only. Apply when insects first appear and repeat as needed.
	<ul style="list-style-type: none"> Do not feed or graze livestock in treated fields. Do not apply by air. Do not exceed 6 applications per growing season. 		
CHINESE CABBAGE (tight heading varieties only) (7)	Aphids	½ - 1 pt.	
CELERY (Florida) (7)	Leafminers	1 pt.	
LETTUCE, LEAF (14)	Aphids, Leafhoppers, Leafminers	½ pt.	
LENTILS (14)	Aphids, Lygus Bugs	1/3 - 1 pt.	Use higher rate for Lygus control.
	<ul style="list-style-type: none"> 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 the crop or weeds are in bloom. 		

7/11

VEGETABLE CROPS (continued)
CAUTION: DO NOT USE ON SEED ONIONS OR SEED CARROTS.

CROP	PEST	RATE/ACRE	COMMENTS
LUPINE (0)	Aphids, Lygus Bugs	½ - 1 pt.	Apply when aphids first appear.
	<ul style="list-style-type: none"> • 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. 		
MELONS (Except Watermelons) (3)	Aphids, Leafhoppers, Leafminers, Thrips	1 pt.	
PEAS (0 for peas)	Aphids, Lygus Bugs	1/3 - 1 pt.	Use higher rate for Lygus control.
	<ul style="list-style-type: none"> • Do not feed or graze hay within 21 days after last application. • Do not make more than one application per growing season on peas. • 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, Leafminers, Maggots	½ - 2/3 pt.	
POTATOES (0)	Aphids, Grasshoppers, Leafhoppers, Leafminers	½ - 1 pt.	
KALE, TURNIP (Greens and Roots), MUSTARD GREENS, SWISS CHARD, ENDIVE (Escarole) (14)	Aphids, Leafhoppers, Leafminers	½ pt.	
TOMATOES (7)	Aphids, Leafhoppers, Leafminers	½ - 1 pt.	
WATERMELONS (3)	Aphids, Leafhoppers, Leafminers	½ - 1 pt.	

OTHER USES

CROP	PEST	RATE/ACRE	COMMENTS
COTTONWOOD, HYBRID POPLAR, OTHER TREES GROWN FOR PULP (Washington, Oregon, and Idaho only)	Leaf Beetle	1 1/3 - 4 pts.	Apply in 10 gals. of water per acre by aerial or dripline application. Application may be repeated two times. Refer to section entitled DRIP (INCLUDING SURFACE AND SUBSURFACE) CHEMIGATION (SOIL DRENCH USES) section for additional instructions for dripline applicaions.

FRUIT AND NUT CROPS

CROP	PEST	RATE/ACRE	COMMENTS
PEARS (28)	Aphids, Leafhoppers, Mites (except Rust Mites)	1 ½ - 3 pts.	Northeast and North Central states: Use ½ - 1 pt./100 gals. based on 300 gals. of water per acre.
	<ul style="list-style-type: none"> • Do not apply when trees or substantial number of weeds in the orchard are in bloom. • Do not graze livestock in treated orchards. 		
CHERRIES (Idaho, Washington, Oregon, and Utah only) (28)	Aphids, Cherry Fruit Fly, Mites	1 pt.	For dilute application, apply specified rate per 100 gals.
		2-4 pts.	For concentrate application, use specified rate per acre. Apply a minimum spray volume of 50 gals. per acre.
	<ul style="list-style-type: none"> • On mature tart cherries, use 3 pts. per acre. • On mature sweet cherries, use 4 pts. 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. • Only a single application may be made. 		

FRUIT AND NUT CROPS (continued)

CROP	PEST	RATE/ACRE	COMMENTS
GRAPEFRUIT, LEMONS, ORANGES, TANGERINES (including mandarins, tangelos, tangors, and other hybrids of tangerines) (See COMMENTS for PHI)	Aphids	1 - 2 qts	Use in 5 - 10 gals. of water. Apply as an outside coverage spray. The interval between last application and harvest is 15 days.
	Mites (except Rust Mites)	½ - 1 pt.	Use in 100 gals. of water with a maximum of 2 qts. per acre. The interval between last application and harvest is 15 days.
	Scales (except Black or Snow)	1 - 1 ½ pts.	Use in 100 gals. or equivalent amount in concentrated spray. Apply as a thorough coverage spray. The interval between last application and harvest is 45 days.
	Thrips	1 - 2 qts.	Use in 5 to 10 gals. of water applied as a mist spray. The interval between last application and harvest is 15 days.
	Whiteflies	3 - 4 pts.	Apply as a thorough distribution coverage spray. The interval between last application and harvest is 15 days.
	<ul style="list-style-type: none"> Do not use on citrus seedlings. Make no more than 2 applications to mature fruit. Do not graze livestock in treated orchards. Do not apply during bloom period. 		
CITRUS (Arizona and California) (Non-bearing and nursery stock)	Aphids, Thrips	3 - 4 pts.	Apply as a foliar spray. Repeat applications as necessary. May be applied in the year grapefruit, lemon, orange and tangerine trees begin to bear fruit. For soil drench (1 - 3 year old trees): Use 2 qts. per acre applied in the furrow or basin around the base of the tree. Apply when insect injury to new growth appears.
			<ul style="list-style-type: none"> Do not graze livestock in treated groves. Do not apply to trees that will bear fruit within one year.
PECANS (21)	Aphids, Mites, Leafhoppers	2/3 pt.	
			<ul style="list-style-type: none"> Do not graze livestock in treated groves.

SHADE AND ORNAMENTAL TREES AND PLANTS

Before treating a large number of ornamental plants with Gowan Dimethoate 4 alone or as a tank mixture with any other material, make a test application on a few plants and observe for 7 - 10 days prior to treating large areas to reduce the possibility of plant injury.

CROP	PEST	OZS./6 GALS. WATER	COMMENTS
AZALEAS (Outdoor)	Lace Bugs, Leafminers, Mites, Tea Scale, Whiteflies	1	Use as a foliar spray.
CAMELLIA	Aphids, Camellia Scale, Tea Scale, Mites	1	Use as a 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 at the rate of 1 1/3 ozs. per gal. of water per plant up to 6 ft. tall. Increase the rate proportionately for larger plants.
CARNATIONS	Aphids, Thrips, Mites	1	Use as a foliar spray. Soil Drench: Apply as a soil drench at the rate of 2 1/3 ozs. per 500 sq. ft. of bed or bench (6 1/3 qts. per acre) in sufficient water for even distribution. Water in thoroughly after application.
CYPERUS	Bactra Moth Larvae	1	Use as a drenching spray.
DAY LILIES	Aphids, Thrips	2	Use as a foliar spray.
ARBORVITAE	Aphids, Bagworms, Mites	2	Use as a foliar spray.
BIRCH	Aphids, Leafminers	½	Use as a foliar spray. For leafminers, apply when leaves are expanded (about mid-May) and repeat in early July.
BOXWOOD	Leafminers, Mealy Bugs, Mites	1	Use as a foliar spray. For leafminers, apply in spring when leafminer flies first appear or in early summer to control larvae in infested leaves.
CEDAR	Mites	2	Use as a foliar spray.
EUONYMOUS	Aphids, Scale	2	Use as a foliar spray.
GARDENIAS	Tea Scale, Whiteflies	1	Use as a foliar spray.
GERBERAS	Thrips	1	Use as a foliar spray.
GLADIOLAS	Aphids, Thrips	1	Use as a foliar spray.
IRIS	Aphids, Iris Borer, Thrips	2	Use as a foliar spray. For borer control, spray when new leaves are 5 - 6 inches tall.

SHADE AND ORNAMENTAL TREES AND PLANTS (continued)

Before treating a large number of ornamental plants with Gowan Dimethoate 4 alone or as a tank mixture with any other material, make a test application on a few plants and observe for 7 - 10 days prior to treating large areas to reduce the possibility of plant injury.

CROP	PEST	OZS./6 GALS. WATER	COMMENTS
POINSETTIAS (Outdoor)	Mites, Whiteflies, Mealy Bugs, Aphids	1	Use as a foliar spray.
FIGUS NITIDA (Outdoor)	Thrips	1	Use as a foliar spray.
	• Do not use on potted plants.		
HOLLY, English and American (not Buford variety)	Leafminers, Mites, Soft Scale	1	Use as a foliar spray. For leafminers, apply in spring when leafminer flies first appear or in early summer for control of larvae in the infested leaves.
HEMLOCK	Mites, Scales	1	Use as a foliar spray.
JUNIPER	Aphids, Bagworms, Midges, Mites	2	Use as a foliar spray.
OAK	Golden Oak Scale	2	Use as a foliar spray.
PINE	Aphids, Bagworms, European Pine Shoot Moth, Nantucket Pine Tip Moth, Zimmerman Pine Moth	2	Use as a foliar spray.
ROSE (outdoor)	Aphids, Leafhoppers, Mites, Thrips	1	Use as a foliar spray. For commercial fields: Use 2/3 pt. per acre in 5 - 10 gals. water by air or 2/3 pt. per acre in 100 gals. water by ground application.
TAXUS	Fletcher Scale, Mealy Bugs, Mites	2	Use as a foliar spray.

APPLICATION THROUGH IRRIGATION SYSTEMS - CHEMIGATION

Apply this product only through sprinkler, including center pivot, lateral move, end tow side (wheel) roll, traveler, big gun, solid set, or hand move, flood (basin) furrow, border, or drip (including surface and subsurface) 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 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-mix 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 crop 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. Do not apply when wind speed favors drift beyond the area intended for treatment.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: Gowan Company does not encourage 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 systems means a system for the provision to the public of piped water for human consumption if such 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 a 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 shutdown.

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.

10/11

SPRINKLER CHEMIGATION (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.

FLOOD (BASIN) FURROW AND BORDER CHEMIGATION (SOIL DRENCH USES)

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- a. 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.
- b. The pesticide injection pipeline must contain a functional automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- c. 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.
- d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- e. 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.
- f. 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.

DRIP (INCLUDING SURFACE AND SUBSURFACE) CHEMIGATION (SOIL DRENCH 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 pipe 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.

11/11

STORAGE AND DISPOSAL

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

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

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

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL CHEMTREC® (800) 424-9300.

For other product information, contact Gowan Company or see Material Safety Data Sheet.

NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS

Important: Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our recommendations for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of Gowan Company. All such risks shall be assumed by the Buyer and User.

Gowan Company warrants that this product conforms to the specifications on the label and is reasonably fit for the intended purpose referred to on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. GOWAN COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY

BUYER'S OR USER'S EXCLUSIVE REMEDY AND GOWAN COMPANY'S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT, AT GOWAN COMPANY'S SOLE DISCRETION.

EPA Text Pending: Dimethoate 4 (usedel to EPA 07-27-05)