

GOWAN MALATHION 8

AGRICULTURAL INSECTICIDE

ACTIVE INGREDIENT:

Malathion: (O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate) 79.5%

OTHER INGREDIENTS 20.5%

TOTAL 100.0%

Contains 8 lbs. malathion per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

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 Insecticide

IF SWALLOWED: Call a physician or poison control center. Drink one or two glasses of water and induce vomiting by placing finger at the back of the throat. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED: Remove victim to fresh air and apply artificial respiration if indicated.

IF ON SKIN: Wash thoroughly with soap and water. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

FOR EMERGENCY MEDICAL RESPONSE AND HAZARD COMMUNICATIONS ONLY, CALL 1-888-478-0798.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid breathing of spray mist. Avoid contact with skin. Avoid contamination of feed and food.

NOTE TO PHYSICIAN: Malathion upon use may cause cholinesterase inhibition. Atropine is antidotal.

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 must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile ≥ 14 mils, or Viton ≥ 14 mils
- Shoes plus socks

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.

USER SAFETY RECOMMENDATIONS

User 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 fish, aquatic invertebrates and aquatic life stages of amphibians. 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. For aquatic use, do not apply to water except as specified on this label. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are actively 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. 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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI). Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 ≥ 14 mils, or Viton ≥ 14 mils
- Shoes plus socks

NET CONTENTS _____ GALLONS

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

When using GOWAN MALATHION 8 in the greenhouse or stored grain facilities (as recommended on the label), use only with adequate ventilation. After application, ventilate thoroughly before occupying enclosed spaces.

GENERAL USE INFORMATION

In order that pesticide residues on food and forage crops will not exceed tolerances established by the Federal Food and Drug Administration, use only the recommended rates and intervals, and do not apply closer to harvest than specified.

Unless otherwise specified, apply at the first sign of infestation and repeat at 7-10 day intervals as needed to maintain control, but observe use limitations for specific crop. Consult your State Agriculture Experiment Station or the State Agricultural Extension Service for additional information as the timing of applications needed will vary with local conditions.

Applications may be made by aircraft or by ground equipment according to the DIRECTIONS FOR DILUTION below. The amount of water needed to treat an acre varies, therefore the following directions are given to cover a broad range of applications.

DIRECTIONS FOR DILUTION

DILUTE APPLICATION

Field and Row Crops: Use specified rate in 20 to 60 gallons of water per acre.

Trees and Vines: Use specified rate in 100 to 800 gallons of water per acre.

CONCENTRATE APPLICATION

Field and Row Crops: Use specified rate in not less than 5 gallons of water per acre.

Trees and Vines: Use specified rate in 20 to 100 gallons of water per acre.

AIR APPLICATION

Field and Row Crops: Use specified rate in 5 to 20 gallons of water per acre.

Trees and Vines: Use specified rate in at least 10 gallons of water per acre.

MIXING DIRECTIONS

Pour specified amount of product into nearly filled spray tank. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. If mixture does not mix readily but tends to separate as an oily layer, do not use as injury to plants may result.

Do not combine with wettable powders unless previous use of the mixture has proven physically compatible and safe to plants. Always thoroughly emulsify this product with at least half of total water before adding wettable powders.

PHYTOTOXICITY ADVISORY 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 runoff, certain spray mixtures, stage of crop development, or tank mixes with other pesticides.

RECOMMENDATIONS

Rates are given in terms of pints of GOWAN MALATHION 8 per acre.

PREHARVEST INTERVAL

Minimum days between last application and harvest are given in () after each crop name.

TREES AND VINES

CROP	REI (HRS)	RATE (PTS./ACRE)	PESTS	COMMENTS
APRICOTS (7)	12	4 - 10	Aphid, Codling Moth, European Lecanium Scale, Orange Tortrix, Soft Brown Scale, Terrapin Scale	
AVOCADOS (7)	12	4 - 9	Green House Thrips, Latania Scale, Omnivorous Looper, Soft Brown Scale, Orange Tortrix	
BLACKBERRIES (1), BOYSENBERRIES (1), DEWBERRIES (1), LOGANBERRIES (1), RASPBERRIES (1) CITRUS (GRAPEFRUIT, KUMQUATS, LEMONS, LIMES, ORANGES, TANGELOS, TANGERINES-Mandarin or Mandarin Oranges, Tangors, and other hybrids of tangerines with other citrus) (7)	12	1 - 4	Japanese Beetle, Leafhoppers, Mites, Thrips	
		2 - 4	Aphid, Rose Scale	
	24	7 - 25	Aphids, Black Scale (single and off-brooded), California Red Scale, Citricola Scale, Orangeworm, Purple Scale, Soft Scale, Thrips, Yellow Scale	
		1 - 8	Mediterranean Fruit Fly	
<ul style="list-style-type: none"> Do not apply when trees are in bloom. 				
CURRENTS (1), GOOSEBERRIES (3)	12	1 - 2 2	Japanese Beetle, Mites Currant Aphid, Imported Currantworm	
FIGS (3)	12	2 ½	Dried Fruit Beetles, Vinegar Flies	Apply with 1 - 2 gals. sulfured molasses per acre.
GRAPES (3)	24	2 - 2 ½	<i>Drosophila</i> , European Fruit Lecanium, Grape Leafhopper, Japanese Beetle, Leafhoppers, Mealybugs, Spider Mites, Terrapin Scale	Injury may occur to grape berries when applications are made after bloom.
GUAVA (2), MANGO (2), PASSION FRUIT (2) (Except California)	12	¾	Fruit Flies	Apply with 1 lb. partially hydrolyzed yeast protein or enzymatic yeast hydrolyzate.
MACADAMIA NUTS (0)	12	3 - 15	Green Stink Bug	
NECTARINES (7)	12	2 ½ - 9	Black Cherry Aphid, Black Peach Aphid, Green Peach Aphid, Japanese Beetle, Rusty Plum Aphid	May be mixed with spray oil for dormant and delayed dormant applications. Follow spray oil manufacturer's directions.

TREES AND VINES (continued)

CROP	REI (HRS)	RATE (PTS./ACRE)	PESTS	COMMENTS
PEACHES (7)	24	5 - 9	Cottony Peach Scale, Lesser Peach Tree Borer, Plum Curculio, Oriental Fruit Moth, San Jose Scale, Terrapin Scale	
PECANS (0)	12	2 ½ - 12 ½	Aphids, Mites, Pecan Bud Moth, Pecan Leaf Casebearer, Pecan Nut Casebearer, Pecan Phylloxera	
WALNUTS (0)	12	4 - 12 ½	Aphids, Mites, Walnut Husk Fly	

FIELD AND ROW CROPS

CROP	REI (HRS)	RATE (PTS./ACRE)	PESTS	COMMENTS
ALFALFA, CLOVER, BIRDSFOOT TREFOIL, CLOVER, LESPEDEZA, LUPINE, VETCH ((0) if 1½ pints and less; (7) 2 pint rate)	12	1 - 2	Alfalfa Weevil Larvae, Aphids, Armyworms, Clover Leaf Weevil, Grasshoppers, Lygus Bugs, Pea Aphid, Potato Leafhoppers, Spider Mites, Spittlebugs, Vetch Bruchid	Use higher rate for armyworm control. For hard to control insects, use up to 2 pts. per acre.
			<ul style="list-style-type: none"> Apply to alfalfa in bloom only in the evening or early morning when bees are not working in the fields or are not hanging on the outside of hives. 	
ALFALFA, BIRDSFOOT TREFOIL, CLOVER, LESPEDEZA, LUPINE, VETCH (SEED CROPS) (0)	12	1 - 1 ¼	Aphids, Leafhoppers, Lygus Bugs	
			<ul style="list-style-type: none"> Apply to plants in bloom only in the evening or early morning when bees are not working in the fields or are not hanging outside the hives. 	
BEANS-DRY AND SUCCULENT (Field and Greenhouse) (1)	12	1 ½	Aphids, Cucumber Beetle, Japanese Beetles, Potato Leafhopper, Mexican Bean Beetle, Nitidulid Beetle, Spider Mites, Pea Leaf Weevil	
			<ul style="list-style-type: none"> Do not graze or feed forage to livestock. 	
BEANS-DRY (West of the Rocky Mountains Only) (1)	12	1 - 1 ½	Lygus Bugs	
			<ul style="list-style-type: none"> Do not graze or feed forage to livestock. 	
BEETS, GARDEN (Seed Crop) (7)	12	1 ¼	Lygus Bugs	Apply in 5 to 10 gals. of water per acre at seedball stage to hard seed stage. Repeat as needed to maintain control.
BEETS, TABLE (7)	12	2 ½	Aphids, Beet Armyworm, Blister Beetles, Flea Beetles	
CELERY (7)	12	1 - 1½	Aphids, Spider Mites	
COLE CROPS (BRASSICA (COLE) LEAFY VEGETABLE CROP GROUP: BROCCOLI (3), BROCCOLI RAAB (rapini) (7), BRUSSELS SPROUTS (7), CABBAGE (7), CAULIFLOWER (7), CAVALO BROCCOLO (7), CHINESE BROCCOLI (7), CHINESE CABBAGE (bok choy, napa) (7), CHINESE MUSTARD CABBAGE (7), COLLARDS (7), KALE (7), KOHLRABI (7), MIZUNA (7), MUSTARD GREENS (7), MUSTARD SPINACH (7), RAPE GREENS (7)	12	1 ½ - 2 ½	Aphids, Cabbage Looper, Flea Beetle, Imported Cabbageworm	
CORN-GRAIN OR FORAGE (5)	12	1	Aphids, Corn rootworm adults, Sap beetles, Thrips, Young grasshoppers	
			<ul style="list-style-type: none"> CAUTION: Injury may occur in whorl and silk stages. 	
COTTON (0)	12	1 - 4	Aphids, Brown Cotton Leafworm, Cotton Leaf Perforator, Leafhoppers, Spider Mites, Whiteflies	
		1 ¼ - 4	Boll Weevils, Cotton Fleahoppers, Fall Armyworm, Grasshoppers, Garden Webworm, Lygus Bugs	
			<ul style="list-style-type: none"> Do not graze or feed forage to livestock. 	
CUCUMBERS (field and greenhouse) (1), SQUASH (1)	12	1 ¾	Aphids, Cucumber Beetle, Cutworms, Darkling Ground Beetle, Leafhoppers, Pickleworm, Spider Mites, Squash Vine Borer, Thrips	For vine borer, apply weekly to stems and vines at base of plant.
			<ul style="list-style-type: none"> Do not apply unless plants are dry. 	
EGGPLANT (Field and Greenhouse) (3)	12	¾ - 3 ½	Aphids, Spider Mites	
		2 - 3 ½	Lace Bug	

FIELD AND ROW CROPS (continued)

CROP	REI (HRS)	RATE (PTS./ACRE)	PESTS	COMMENTS
FLAX (45)	12	½	Grasshoppers	
GARLIC (3), LEEKs (3), SHALLOTS (7)	12	1 - 2	Aphids, Thrips	
GRASSES and RANGELAND (such as BARN GRASS, BERMUDA, CANARY GRASS, FESCUE, ORCHARD GRASS, RED TOP, TIMOTHY and YELLOW FOXTAIL) (1)	12	1 - 1 ¼	Aphids, Grasshoppers, Leafhoppers	Apply in sufficient water for good coverage or use 1¼ pts. plus 1 gal. of diesel fuel oil per acre by means of an airplane or turbine-blower type sprayer.
HOPS (7) (Except California)	12	½ - 1 ¼	Aphids	
HORSERADISH (7), PARSNIPS (7), RADISHES (7), SALSIFY (7)	12	2	Aphids, Diamondback Moth, Flea Beetles, Leafhoppers	
LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) CROP GROUPING: AMARANTH leafy amaranth, Chinese spinach, tampala) (7), ARRUGULA (roquette) (7), CELTUCE (7), CHERVIL (7), CHRYSANTHEMUM-Edible-leafed , Garland (7), CORN SALAD (7), DANDELIONS (7), DOCK (sorrel) (7), FLORENCE FENNEL (7), ORACH (7), PARSLEY (21), PURSLANE-Garden and Winter (7), SWISS CHARD (7) (Except California)	12	1 - 2	Aphids	
LENTILS (3)	12	1	Aphids	
				• Do not graze or feed forage to livestock.
LETTUCE (Field or Greenhouse) (7 days for head lettuce; 14 days for leaf lettuce), ENDIVE (Field or Greenhouse) (7)	12	2	Aphids, Alfalfa loopers, Leafhoppers, Mites	
MUSHROOMS (Greenhouse) (1) (Except California)	12	1 ½	Phorid Flies, Sciarid Flies	Apply in 130 gals. of water per acre, or 1 tablespoon per 3 gals. of water per 1000 sq. ft. bed. Make thorough application as soon as possible after picking. Repeat application as necessary, usually twice per week.
OKRA (1) (Except California)	12	1 ½	Aphids, Japanese Beetles	
ONIONS- BULB AND GREEN (Field or Greenhouse) (3)	12	1 - 2	Thrips	
		2	Onion Maggot	
PEAS (3)	12	1 - 2 ½	Aphids, Pea Weevils	
				• Do not graze or feed forage to livestock.
PEPPERMINT (7), SPEARMINT (7)	12	1	Adult Flea Beetles, Leafhoppers	
PEPPERS (Field or Greenhouse) (3)	12	1 ½	Aphids, Pepper Maggot	
POTATOES (0)	12	1	False Chinch Bug, Leafhoppers, Mealybugs	
		3	Aphids, Blister Beetles	
RICE-DOMESTIC, GRAIN OR WILD (7)	12	1 ½	Rice Leaf Miners, Rice Stink Bug	Broadcast use only over intermittently flooded areas.
				• Do not apply propanil within 15 days of malathion treatment. • Application may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially.
RUTABAGAS (3)	12	1 - 2	Aphids	
SMALL GRAINS (BARLEY, OATS, RYE, WHEAT) (7)	12	1 - 1 ¼	Armyworms, English Grain Aphid, Grasshoppers, Greenbugs	

FIELD AND ROW CROPS (continued)

CROP	REI (HRS)	RATE (PTS./ACRE)	PESTS	COMMENTS
SORGHUM-GRAIN OR FORAGE (7)	12	1 ½	Greenbugs	
			• Do not graze or feed forage to livestock.	
SPINACH (7)	12	1½	Aphids	
STRAWBERRIES (3)	12	1 ½ - 2	Aphids, Field Crickets, Lygus Bugs, Potato Leafhopper, Spider Mites, Spittlebugs, Strawberry Leafroller, Strawberry Root Weevils, Thrips, Whiteflies	
SWEET CORN (Field or Greenhouse) (5)	12	1	Japanese Beetle	CAUTION: Injury may occur in whorl and silk stages.
SWEET POTATOES (3)	12	1 - 1 ¾	Leafhoppers	
		1 ¾	Morning Glory Leafminer	
TOMATOES (Field and Greenhouse) (1)	12	1 ½	Aphids, Spider Mites	Apply a full coverage application to fruit and foliage.
		2	<i>Drosophila</i> flies	
WATERCRESS (7)	12	1-2	Aphids	

ORNAMENTALS

Note: Before treating a large number of ornamental plants with GOWAN MALATHION 8 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	REI (HRS)	RATE	PESTS	COMMENTS
FLOWERS, SHADE TREES, and SHRUBS	12	1 pt. in 100 gals. of water as a dilute spray	Aphids, Euonymus Scale, European Pine Shoot Moth, Four-lined Leaf Bug, Japanese Beetle Adults, Lace Scale, Mealybugs, Millipedes, Oyster Shell Scale, Potato Leafhopper, Rose Leafhopper, Scurfy Scale, Spider Mites, Springtails, Sowbugs, Tarnished Plant Bug, Thrips, Whiteflies	CAUTION: Avoid use on certain ferns including Boston, Maidenhair and Pteris, as well as some species of Crassula and Canaetri Juniper. For Oyster shell, Fletch, Juniper, Oak kermes and Pine needle scales apply when scale crawlers have settled on foliage.
		1 ¼ pts. in 100 gals. of water as a dilute spray	Azalea Scale, Bagworm, Birch Leafminer, Boxwood Leafminer, Fletch Scale, Florida-Red Scale, Juniper Scale, Magnolia Scale, Oak Kermes, Pine Leaf Scale, Tent Caterpillar	
		1 ⅓ pts. in 100 gals. of water	Black Scale Crawler, Monterey Pine Scale	
		2 ½ pts. in 100 gals. of water	Pine Needle Scale, Wax Scale	

SLASH PINE, PINE SEED ORCHARDS, AND CHRISTMAS TREE PLANTATIONS

CROP	REI (HRS)	RATE	PESTS	COMMENTS
SLASH PINE, PINE SEED ORCHARDS, and CHRISTMAS TREE PLANTATIONS	12	For ground application, mix ¾ to 4/5 gals. of GOWAN MALATHION 8 in 100 gals. of water.	Slash Pine Flower Thrips, European Pine Sawfly	Apply ¾ gals. of the mixture per tree on the smallest flowering trees. Mist blowers or airblast sprays may be used.
		For air application, mix 2/5 gals. of GOWAN MALATHION 8 in a least 5 gals. of water		Apply a minimum of 5 gals. of mixture per acre. Make two applications, the first when female flowers are in twig bud stage, the second one week prior to maximum flower receptivity to pollen.

MOSQUITO CONTROL

MOSQUITOES, FLIES, AND SMALL FLYING INSECTS: For use by trained personnel as a 2% to 5% Malathion fog, aerosol or space spray. To make a 2% solution dilute 1 part GOWAN MALATHION 8 in 45 parts water, fuel oil or diesel oil. When using a kerosene-type solvent as a carrier, dilute 1 part GOWAN MALATHION 8 in 45 parts solvent consisting of 4 parts kerosene-type solvent and 1 part aromatic hydrocarbon-type solvent. Apply 0.58 - 2.86 gallons finished spray per acre. For a 5% solution, dilute 1 part GOWAN MALATHION 8 in 18 parts solvent. Apply 0.24 - 1.18 gallons finished spray per acre.

MOSQUITO LARVAE IN STANDING WATER

(Only for use in intermittently flooded areas, stagnant water, temporary rail ponds, and log ponds- KEEP OUT OF ANY FISH BEARING WATERS): Apply GOWAN MALATHION 8 at the rate of 8 fluid ounces per acre. Mix in sufficient water or oil to obtain even coverage when applied by air or ground equipment. Repeat applications as necessary. Avoid applying oil-based formulations to valuable ornamental plants as injury may occur. Broadcast use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shell fish are grown and/or harvested commercially.

AROUND THE OUTSIDE OF BUILDINGS

(Around buildings which house domestic animals, around

homes, yards, commercial and industrial buildings, agricultural buildings, out-door garbage cans, compost/compost piles, garbage dumps, and cull fruit and vegetable dumps): Apply 1 gallon of GOWAN MALATHION 8 undiluted per 1000 sq. ft. on painted surfaces. Apply 2 gallons of GOWAN MALATHION 8 undiluted per 1000 square feet on unpainted surfaces where flies alight or congregate. In most cases, adding molasses or sugar to the spray prolongs the insecticidal activity of Malathion and serves as a fly attractant.

CAUTION: Avoid contamination of milk, milk equipment and water. Avoid contamination of feed and food products, also drinking fountains and feed troughs.

SMALL GRAIN STORAGE FACILITIES

For a residual wall, floor, and machinery spray in grain elevators, in treating truck beds, box cars, and ships' holds before loading grain, apply 5 pts. per 25 gallons of water making thorough application. Before applying spray, clean elevators, box cars, etc. thoroughly. Remove and burn all sweepings and debris. Only **corn, wheat, rye, oats, and barley grain storage facilities may be treated.**

DROSOPHILA FLY AND DRIED FRUIT BEETLE CONTROL ON OR AROUND CULL FRUIT AND VEGETABLE DUMPS

Mix 7½ pints in 100 gallons of water. Apply as a drench, using 8 to 10 gallons of spray per 100 square feet. For best results, dumps should not be over 18 inches deep. Do not feed treated fruit and vegetables.

FLY CONTROL

STRAIGHT MALATHION SPRAYS		MALATHION BAIT SPRAYS			
AMOUNT OF SPRAY	AMOUNT MALATHION	AMOUNT OF BAIT SPRAY	AMOUNT MALATHION	SUGAR (or)	UNSULFURIZED MOLASSES/ CORN SYRUP
	8		8		
2 ½ gals.	¾ cup	2 ½ gals.	¾ cup	1 cup	1 cup
12 gals.	1 ¼ pts.	12 gals.	1 ¼ pts.	2 1/2 lbs.	1 qt.
100 gals.	1 ¼ gals.	100 gals.	1 ¼ gals.	20 lbs.	2 gals.

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, 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 a 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 a 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 material that are compatible with pesticides and capable of being fitted with a system interlock.

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 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 system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

DRIP (INCLUDING SURFACE AND SUBSURFACE) CHEMIGATION

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.

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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.

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 ON CONDITIONS OF SALE

Our recommendation 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 responsibilities, including injury or damage, resulting from its misuse as such, or in combination with other materials.

04-R0699