



EcoSwing[®]
BOTANICAL FUNGICIDE

FOR ORGANIC PRODUCTION

FOR USE ON OUTDOOR AND GREENHOUSE FOOD AND NON-FOOD CROPS, ORNAMENTAL FLOWERS, TREES, SHRUBS, AND PLANTS GROWN IN LANDSCAPES

ACTIVE INGREDIENTS:	% By Wt.
Extract of <i>Swinglea glutinosa</i>	82.0%
INERT INGREDIENTS:	18.0%
	TOTAL 100.0%

Contains 7.5 lbs of technical extract per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID	
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. • Call a poison control center or doctor for treatment advice.
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 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 a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE 1-888-478-0798	

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Causes moderate eye irritation. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instruction for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

NET CONTENTS:

EPA Reg. No. 10163-357
EPA Est. No.



Produced For:
Gowan Company
PO Box 5569
Yuma, AZ 85366-5569

ENGINEERING CONTROLS

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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove PPE immediately after handling this product.
- Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

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. Do not contaminate water when disposing of equipment washwater or rinsate. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated will help avoid run off to water bodies or drainage systems.

PRODUCT INFORMATION

EcoSwing is a biofungicide for use on growing crops in agricultural, greenhouse, ornamental and turf use sites to control multiple types of fungal diseases such as powdery mildew (oidiums), sour rot, and *Botrytis cinerea* amongst others. Optimum disease control is achieved when the biofungicide is used according to label directions and applied in a regularly scheduled preventative spray program.

The use of EcoSwing is compatible with the principles of Integrated Pest Management (IPM) and programs that attempt to minimize disease resistance to fungicides. Unlike single-site mode of action fungicides which are at risk from disease resistance, EcoSwing has a multi-site mode of action, and may be used to delay or prevent the development of resistance to single site fungicides. Consult with your Federal or State Cooperative Extension Service representatives for guidance on the proper use of EcoSwing in IPM and resistance management programs.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, or pets 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 workers to enter treated areas during the restricted entry interval (REI) of 4 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 made of any waterproof material
- Shoes plus socks

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 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.

Keep children and pets out of the treated area until sprays have dried.

MIXING AND APPLICATION

GROUND APPLICATIONS:

- Apply with most types of ground spray equipment.
- Thorough coverage is essential to achieving adequate control. For best results, coverage typically requires a minimum of 10 gallons of total spray volume per acre. Higher volumes will be required for larger perennial crops.
- For best preventative results, this product must be applied at least every 7-14 days on a regular and continuous basis before the level of infestation becomes heavy.
- When pest pressure is heavy or plant canopy is dense, use higher rates and increase spray frequency. Repeat application if measurable rain occurs within two to three hours of spraying.

AERIAL APPLICATIONS:

- This product can be applied by aerial application.
- Sufficient water must be used to achieve thorough coverage of the crop, typically this is between 5-20 gallons of water per acre. It is not recommended to use less than 5 gallons of water per acre for aerial applications.

CHEMIGATION APPLICATIONS: Apply this product only through low pressure, drip (trickle) or sprinkler (including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set or hand move) irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury or lack of effectiveness can result from non-uniform distribution of treated water. 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. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.

Chemigation Monitoring: 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.

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

Instructions using sufficient water to achieve an even distribution**For Chemigation Systems Connected to Public Water Systems**

- Public water system 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 regular 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, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the 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 flow 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.
- 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 shut down.
- 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.

Required System Safety Devices:

In addition, all directions and requirements specified for Sprinkler Irrigation Systems must be followed.

Sprinkler Irrigation Systems

- 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 that 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.

Center pivot, motorized lateral move, or traveling gun types of equipment: Inject into the system for one revolution or run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until product has been cleared from the last sprinkler head. Do not use end guns. The system should be run at maximum speed for a foliar application.

Wheel move, side roll, end tow, solid set, or hand move types of equipment: Adjust equipment to inject product over a 30-60 minute period. Shut off injection equipment. Continue to operate irrigation system until product has been cleared from the last sprinkler head. Product can be injected at the end of the irrigation cycle or as a separate application. Do not use end guns. Product must be premixed in a supply tank with water and other appropriate tank-mix chemicals. Agitation is necessary at all times.

MIXING:

- Shake well before using. Add required amount of EcoSwing to a clean spray tank with at least one-half of the water to be sprayed. Agitate the mixture thoroughly, add other products and then fill the tank with the remaining water and continue agitation.
- Always use this product promptly after mixing with water and do not let tank mix sit for more than 6 hours.
- Use water for dilution with a pH less than 8.
- EcoSwing has been found to be compatible with most commonly used pesticides. To avoid problems, conduct a compatibility test before using this product in a tank mix with other pesticides. To test for compatibility, mix a small amount of each product, in the appropriate proportions, in a small jar.

PRE-HARVEST INTERVAL: EcoSwing has a zero day preharvest interval and can be applied up to and including the day of harvest.

TARGETED PESTS:

COMMON NAME	SCIENTIFIC NAME
Alternaria Leaf Spot Basil Downy Mildew Black Sigatoka Brown Rot / Blossom Blight Bunch Rot Powdery Mildew Sour Rot Stem-End Rot Complex	<i>Alternaria alternata</i> <i>Peronospora belbahrii</i> <i>Mycosphaerella fijiensis</i> , <i>Paracercospora fijiensis</i> <i>Monilinia fructicola</i> , <i>Monilinia laxa</i> <i>Botrytis cinerea</i> <i>Erysiphaceae spp.</i> <i>Aspergillus niger</i> , <i>Alternaria tenuis</i> , <i>Cladosporium herbarum</i> , <i>Rhizopus arrhizus</i> , <i>Penicillium spp.</i> <i>Colletotrichum musae</i>

APPLICATION DIRECTIONS:

CROP	FIELD RATE	ENCLOSED SPACE PRODUCTION SUCH AS: GREENHOUSE, HOOP HOUSE, HIGH TUNNELS, GROW HOUSE
Berry and Small Fruit Group 13-07 Such as: blackberry; blueberry, highbush; cranberry; elderberry; grape; kiwifruit, fuzzy; mulberry; raspberry; strawberry; and cultivars, varieties, and/or hybrids of these	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
Brassica Head and Stem Vegetables Group 5-16 Such as: Broccoli; cabbage; cauliflower	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
Bulb Vegetables Group 3-07 Such as: onion, bulb and onion, green	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
	• Postemergence application: maximum of 2 pts	
Cereal Grains Group 15 Such as: corn; rice; sorghum; wheat	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
	• Postemergence application: maximum of 2 pts	
Citrus Fruit Group 10-10 Such as: grapefruit; lemon; lime; orange, sour; orange, sweet; tangerine; and cultivars, varieties and/or hybrids of these	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
Cucurbit Vegetables Group 9 Such as: cucumber; muskmelon; squash, summer	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
Fruiting Vegetables Group 8-10 Such as: eggplant; pepper, bell; pepper, non-bell; tomato; and cultivars, varieties and/or hybrids of these	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
Herbs and Spices Group 19 Such as: basil; celery seed; chive; dill (seed); pepper, black;	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
Leafy Vegetables Group 4-16 Such as: head lettuce; leaf lettuce; mustard greens; spinach	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
	• Postemergence application: maximum of 2 pts	
Legume Vegetables (Succulent or Dried) Group 6 Such as: Bean (<i>Phaseolus spp.</i>) (succulent & dried), pea (<i>Pisum spp.</i>) (succulent & dried) and soybean	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
	• Postemergence application: maximum of 2 pts	
Oilseed Group 20 Such as: cottonseed; rapeseed; sunflower, seed; and cultivars, varieties and/or hybrids of these	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
Pome Fruits Group 11-10 Such as: Apple; pear; and cultivars, varieties and/or hybrids of these	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water

Root and Tuber Vegetables Group 1 Such as: carrot; potato; radish; sugar beet; sweet potato	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
	• Postemergence application: maximum of 2 pts	
Stone Fruits Group 12-12 Such as: cherry, sweet; cherry, tart; peach; plum; plum, prune; and cultivars, hybrids and/or varieties of these	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
Tree Nuts Group 14-12 Such as: almond; pecan; pistachio; walnut; and cultivars, varieties and/or hybrids of these	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
Tropical and Subtropical Fruit, Inedible Peel Group 24 Such as: atemoya; avocado; banana; dragon fruit; lychee; passionfruit; pineapple; pomegranate; prickly pear, fruit; sugar apple; and cultivars, varieties, and hybrids of these commodities	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
Hops	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
Mint	1.5 – 2 pts/A	1.5 – 2 pts/100 gallons of water
• For all crops: Use a minimum of 10 gallons water per acre for Ground Applications.		

CROP	RATE
Ornamental Plants, Shrubs, and Trees (including those grown in landscapes) Such as: Amaranthus, Ash, Aster, Azalea, Birch, Caladium, Carnation, Cedar, Chrysanthemum, Cyprus, Dahlia, Daisy, Dogwood, Elm, Ferns, Ficus, Fuschia, Gardenia, Impatiens, Iris, Ivy, Jasmine, Juniper, Lilac, Lilies, Maple, Marigold, Oak, Philodendron, Pine, Poinsettia, Rose, Spruce, Zinnia	1.5 – 2 pts/100 gallons of water OR 0.25 – 0.32 oz/1 gallon of water
• Use a minimum of 1 gallon water to ensure application thoroughly covers foliage.	

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container and keep closed. Store in a cool, dry place.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available 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 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 directions 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. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer and User.

Gowan Company warrants that this product conforms to the specifications on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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.

Chemtrek® is a registered trademark of American Chemistry Council Inc.
EcoSwing® is a registered trademark used under license by Gowan Company, L.L.C.

01-R0619EPA