



PULL HERE TO OPEN ►

# **Hurricane<sup>TM</sup>**

## **Fungicide**

*For control of certain stem and root diseases of ornamentals grown in greenhouses, containers, and other enclosed structures.*

*Active Ingredient:*

Fludioxonil ..... 32.0%

Mefenoxam\* ..... 16.0%

*Other Ingredients:* ..... 52.0%

*Total:* ..... 100.0%

\*CAS Nos. 70630-17-0 and 69516-34-3

*Hurricane is a wettable powder.*

**KEEP OUT OF REACH OF CHILDREN.**

## **CAUTION**

*See additional precautionary statements and directions for use inside booklet.*

EPA Reg. No. 100-951

EPA Est. 67545-AZ-1

**SCP 951A-L1 0606**

**8 x 1.5 oz.**

Net Weight

**syngenta**

## Hurricane™

FIRST AID	
If in eyes	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If on skin or clothing	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If swallowed	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
If inhaled	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>NOTE TO PHYSICIAN</b>	
If ingested, induce emesis or lavage stomach. Treat symptomatically.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b>	
For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call <b>1-800-888-8372</b>	

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

#### CAUTION

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. Avoid breathing dust.

### Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of waterproof material
- 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

#### 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 product is toxic to fish 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. Do not contaminate water when disposing of equipment wash water or rinsates.

### Groundwater Advisory Statement

This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

### Physical or Chemical Hazards

Do not use or store near heat or open flame.

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. To the fullest extent allowed by State law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the fullest extent allowed by State law, SYNGENTA or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## 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.** Exception: If the product is applied by drenching, 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.

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, wear:

- Coveralls over long-sleeved shirt and long pants
- Socks and chemical-resistant footwear
- Chemical-resistant gloves made of waterproof material

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES.**

## GENERAL INFORMATION

### Mixing Instructions

Prepare no more spray mixture than is needed for the immediate application. Thoroughly clean the spray equipment before using Hurricane. Vigorous agitation is necessary to maintain uniformity of the spray mixture. Maintain maximum agitation throughout the spraying operation. It is not recommended that the spray mixture be held overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

## Mixing

**Hurricane Alone:** Add 1/3 of the required amount of water to the spray or mixing tank. With the agitator running, drop the required number of unopened water soluble packets of Hurricane into the spray tank all at once. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the packets have dissolved, and the material has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

**Hurricane + Tank Mixtures:** Hurricane is compatible with most insecticide, fungicide, and foliar nutrients products. However, the physical and biological compatibility of Hurricane with tank mix partners should be tested before use. To determine the physical compatibility of Hurricane with other products, use a jar test as described below, or consult with Syngenta company representatives, other users, or university or extension personnel before proceeding. To determine biological compatibility with other products, mix the products in the desired proportions, apply per label directions on a small number of plants and observe for phytotoxicity prior to widespread use.

Add 1/3 of the required amount of water to the mix tank. With the agitator running, drop the required number of unopened soluble packets of Hurricane into the tank all at once. Continue agitation while adding the remainder of the water. Allow the packets of Hurricane to dissolve and the product to completely disperse into the mix water. Then add the desired amount of other products recommended for tank mixture and allow them to become completely dispersed. In general, tank mix partners should be added in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids and emulsifiable concentrates. Always allow each tank mix partner to become uniformly fully dispersed before adding the next product. Continue agitation to maintain a uniform suspension until all the spray solution has been applied.

*Precaution: Water soluble packets of Hurricane and any other products packaged in water-soluble film must be completely dissolved and dispersed in water before any other tank mix partner are added to the spray solution.*

If using Hurricane in a tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, limitations, etc, which appear on the tank mix product label. No label dosage rate should be exceeded, and the most restrictive product label precautions and limitations in the mixture should be followed. Hurricane should not be mixed with any product which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are labeled.

**Jar-Compatibility Test:** Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

## Application Instructions for Use in Irrigation Systems

**Microjet or Drip Irrigation Application:** Apply this product only through microjet or drip irrigation system. Do not apply this product through any other type of irrigation system. Plant injury or lack of effectiveness can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension 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 an approved pesticide label-prescribed safety device as described under the **Operation Instructions** section for public water systems is 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. 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 regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

## Operation Instructions

1. 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 back-flow. 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 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.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
3. 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.
4. 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.

## Hurricane™

5. 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.
6. 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.
7. Avoid spray overlap as injury may result.
8. Prepare a mixture with a minimum of 1 gal. of water to 4 ozs. of Hurricane and inject this mixture into the system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the fungicide in uniform suspension.
9. Meter into irrigation water during the beginning of the irrigation cycle.
10. With microjet systems, apply additional water after irrigation is completed to remove residues from the foliage. Apply enough supplemental water to wet the root zones of the plants.

*Precaution for irrigation applications: An accurate and uniform distribution pattern is necessary for optimal disease control. Where distribution patterns do not overlap sufficiently, unacceptable control may result. Where distribution patterns overlap excessively, injury to desirable plants may result.*

### ORNAMENTALS

Hurricane is a protectant fungicide to be used as a drench for control of certain stem and root diseases in ornamentals grown in greenhouses, containers, and other enclosed structures. Best disease control will be obtained with preventative applications.

Hurricane controls stem and root diseases of ornamentals caused by *Rhizoctonia* spp., *Phytophthora* spp. and *Pythium* spp. when applied as a drench to the root zone of ornamentals or when mixed with potting media before planting or transplanting.

For control of *Cylindrocladium* spp., *Thielaviopsis* spp., *Fusarium* spp., and *Sclerotium* spp., add Medallion® Fungicide at 1 oz./100 gals. as a tank mix with Hurricane.

**Note:** Hurricane contains a systemic fungicide which has a specific mode of action. Use of Hurricane could result in development of insensitive strains of fungi. Development of insensitivity cannot be predicted. Therefore, Syngenta cannot assume liability for crop damage resulting from insensitive strains of fungi. Consult with your state Agricultural Experiment Station or Extension Service Specialist for guidance on ways to control any possible insensitive strains of fungi which may occur.

### Maximum Use Rate

For applications to ornamentals grown in greenhouses, containers, and other enclosed structures, use up to 46 oz. of Hurricane per 1,000 sq. ft. per year or crop cycle can be used. Do not apply more than 2 pts. of drench mixture per sq. ft. per application. If Hurricane is supplemented with applications of Medallion Fungicide do not apply more than 40 lbs. a.i./A of fludioxonil per year or crop cycle. Applications to pre-potting mix can be made at up to 6.25 oz. of Hurricane per cu. yd. of potting mix.

**California only:** For indoor applications, up to 5 oz. of Hurricane per 1,000 sq. ft. (4.4 lb. a.i.) per year or crop cycle may be used.

The high use rates recommended for interiorscapes, green houses, containers, and other enclosed structures are due to the high organic matter soil mixes used in these systems and the high binding affinity of one of the active ingredients in Hurricane for organic matter.

When using Hurricane for ornamental crops grown in the ground, up to 12.5 pounds of Hurricane/ acre/year may be used.

### Plant Species

The active ingredients in Hurricane have been tested and found to be safe on the ornamentals listed in this table when used at recommended rates. For plants not listed in the table, see the "Notice to User" box at the bottom of the table.

African Violet	Celosia	Petunia
Ageratum	Christmas Cactus	Rose
Alyssum	Chrysanthemum	Salvia
Aster	Coleus	Snapdragon
Azalea	Cyclamen	Spathiphyllum
Begonia	Gerbera Daisy	Verbena
Caladium	Gomphrena	Vinca
Carnation	Marigold	Zinnia
Calendula	Pansy	

**Note:** Applications to Impatiens, New Guinea Impatiens, Pothos, Geraniums and Easter Lily may cause stunting and/or chlorosis.

# Hurricane™

**NOTICE TO USER:** Plant tolerance to Hurricane has been found to be acceptable for the specific genera and species listed on this label. Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test every one for tolerance to Hurricane. Neither the Manufacturer nor the Seller has determined whether or not Hurricane can be used safely on ornamental plants not specified on this label. The professional user should determine if Hurricane can be used safely prior to commercial use. In a small area, test the recommended rates on a small number of plants for phytotoxicity prior to widespread use.

## PRE-POTTING GROWING MEDIA DRENCH

Hurricane can be mixed with the potting media before seeding or transplanting by uniformly mixing 1 1/2 oz. Hurricane in 1/2 -1 gal. (or 2 packets per 1-2 gallons) of water and drenching this mixture into one cu. yd. of potting media. It is recommended that the proper Hurricane solution be made just before the plants are seeded or potted up. Uniform mixing can be accomplished by placing the potting mix in a rotating drum and drenching the Hurricane solution in the mix while the drum is rotating.

## GROWING MEDIA DRENCH

### At Seeding

For the control of damping off and certain root and stem diseases, mix 3/4 oz. in 100 gals. of water and apply enough to completely wet the growing media. Make only one application to the seedling crop prior to transplanting or transferring to larger containers.

### Transplants and Cuttings

For the control of certain root and stem diseases caused by *Rhizoctonia* spp., *Pythium* spp., and *Phytophthora* spp., mix 1 1/2 oz./100 gals (or 2 packets per 200 gallons) of water and completely wet the root zone of the plants. If needed, retreat transplants and cuttings with Hurricane at 21-28 day intervals when conditions are favorable for disease development.

For control of *Cylindrocladium* spp., *Thielaviopsis* spp., *Fusarium* spp., *Sclerotium* spp., add *Medallion Fungicide* at 1 oz./100 gals. of water as a tank mix with Hurricane. Best results will be obtained with preventive applications.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

### Pesticide Storage

Store in a cool, dry place. Do not store this product under wet conditions. Handle outer container carefully to avoid breakage of inner soluble packets.

### Pesticide Disposal

Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide is a violation of federal law. Pesticide that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

### Container Disposal

Dispose of the empty outer foil pouch and outer package in the trash, as long as water soluble pouch is unbroken.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

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Manufactured for  
Syngenta Crop Protection, Inc.  
Greensboro, North Carolina 27409  
www.syngenta-us.com

**SCP 951A-L1 0606**



## Fungicide

For control of certain stem and root diseases of ornamentals grown in greenhouses, containers, and other enclosed structures.

Active Ingredient:	
Fludioxonil .....	32.0%
Mefenoxam* .....	16.0%
Other Ingredients:	
	52.0%
Total:	100.0%

\*CAS Nos. 70630-17-0 and 69516-34-3  
Hurricane is a wettable powder.

See additional precautionary statements and directions for use in attached booklet.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-951  
EPA Est. 67545-AZ-1

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**8 x 1.5 oz.**  
Net Weight

## KEEP OUT OF REACH OF CHILDREN. CAUTION

### Precautionary Statements

#### Hazards to Humans and Domestic Animals

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. Avoid breathing dust.

#### FIRST AID

**If in eyes:** 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 physician or Poison Control Center for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a physician or Poison Control Center for treatment advice.

**If swallowed:** Call a physician or Poison Control Center immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a Poison Control Center or physician. Do not give anything by mouth to an unconscious person.

**If inhaled:** 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.

**NOTE TO PHYSICIAN:** If ingested, induce emesis or lavage stomach. Treat symptomatically.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**HOT LINE NUMBER:** For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372.

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**Physical or Chemical Hazards:** Do not use or store near heat or open flame.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry place. Do not store this product under wet conditions. Handle outer container carefully to avoid breakage of inner soluble packets.

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