

# CHIPCO® brand 26019 Fungicide

A Fungicide For The Prevention And Control Of Certain Diseases Of Turfgrass And Ornamentals.

**ACTIVE INGREDIENT:**

Iprodione: 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide) ..... 50.0%

**INERT INGREDIENT:** .....

50.0%

EPA Reg. No. 264-481

EPA Est. No. 477-MD-01

## KEEP OUT OF REACH OF CHILDREN CAUTION

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-800-334-9745

### STATEMENT OF PRACTICAL TREATMENT

IN CASE OF CONTACT: Wash skin with soap and water.

FOR EYES: Flush with water for 15 minutes and get medical attention.

### PRECAUTIONARY STATEMENTS

#### CAUTION

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Avoid contact with skin, eyes, or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

#### PERSONAL PROTECTIVE EQUIPMENT

Mixers, loaders, others exposed to the concentrate, cleaners/repairers of equipment, and applicators applying as a dip treatment must wear coveralls over long-sleeve shirt and long pants, waterproof gloves, chemical-resistant footwear plus socks, chemical-resistant apron, and a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

Applicators using handheld equipment must wear coveralls over long-sleeve shirt and long pants, waterproof gloves, chemical-resistant footwear plus socks, chemical-resistant headgear for overhead exposures, and a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

Applicators using mechanical ground equipment (groundboom, airblast, etc.), must wear long-sleeve shirt and long pants, and shoes plus socks.

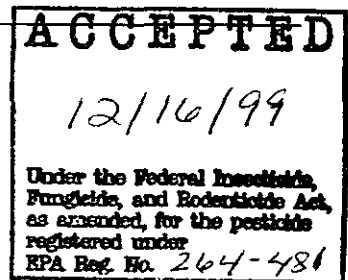
Applicators using truck-mounted equipment with a handgun at the end of a hose (i.e., for commercial turfgrass or ornamental applications) and all other handlers not specified above must wear long-sleeve shirt and long pants, waterproof gloves, and shoes plus socks.

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

Discard clothing or other materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### ENGINEERING CONTROLS

When handlers use closed systems or enclosed cabs 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 clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

### ENVIRONMENTAL HAZARDS

This chemical can contaminate surface water through ground spray applications. Under some conditions, it may also have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

This pesticide is toxic to invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

### DIRECTIONS FOR USE

*It is a violation of federal law to use this product in a manner inconsistent with its labeling.  
Read entire label before using this product.*

Do not apply this product in a way that will contact workers or other persons, either directly or indirectly 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 of 12 hours for ornamental uses. The restricted entry interval for all other WPS uses is 24 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, waterproof gloves, and shoes plus socks.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to ornamental and turf uses (golf courses, landscape and institutional areas) 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.

Do not enter or allow others to enter the treated area until sprays have dried.

### STORAGE AND DISPOSAL

#### STORAGE

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

#### PESTICIDE DISPOSAL

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

#### CONTAINER DISPOSAL

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

If this product is packaged in a returnable-refillable container, after use, return the container to the point of purchase or designated locations. This container must only be refilled with CHIPCO® brand 26019 Fungicide. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Prior to refilling, inspect thoroughly for damage such as cracks, punctures, abrasions and damaged or worn out threads on closure devices. Do not refill or transport damaged or leaking containers. Check for leaks after refilling and before transportation. For information on the disposal of unused, unwanted product, contact Rhône-Poulenc at 1-800-334-5745. For information on cleanup of spills, contact Rhône-Poulenc at 1-800-334-7577. If the container is not being refilled, return it to the point of purchase.

## GENERAL CAUTIONS AND RESTRICTIONS

Use of this product at residential sites is prohibited.

Do not use this product for aerial applications.

Except for use on golf courses, if applying this product adjacent to a water body such as a lake, reservoir, river, permanent stream, marsh or natural pond, estuary, or commercial fish pond, there must be at least a 25-foot vegetative buffer strip between the water body and the point of application.

For golf courses only, do not apply to turf cut higher than 1" on golf holes where water bodies are present.

Do not apply this product when the wind direction is toward aquatic areas.

## TURF

In order to assure maximum crop tolerance and disease control, follow recommendations on this label and all the precautions and limitations of the package label.

CHIPCO® brand 26019 is a foliar applied fungicide, recommended for turfgrass disease control on golf courses, sod farms and institutional areas where fine turf is grown.

When used in conjunction with good turf management practices, CHIPCO® brand 26019 Fungicide is effective in controlling the following diseases:

### Spring, Summer And Fall Diseases

Dollar Spot, Brown Patch, Large Patch, Fusarium Blight, Necrotic Ring Spot, Leaf Spots such as Helminthosporium Leaf Spot caused by *Dreschlera* spp. pathogens, Corticum Red Thread.

### Winter Diseases

Fusarium Patch (Pink Snow Mold) and Gray Snow Mold: Apply the recommended rates as indicated in the table in 0.5 to 10 gallons of water per 1000 square feet. Do not drench. Do not allow the spray mixture to stand for longer than 12 hours as some breakdown of the product may occur. Maintain agitation during spray operations. Apply with a properly calibrated sprayer.

**TURF**

Begin applications when conditions favor disease development or when the disease first appears unless otherwise noted.

DISEASE	INTERVAL OF APPLICATIONS	RATE OZ. PRODUCT/ 1000 FT <sup>2</sup>
Dollar Spot (Lanzia spp. and Brown Patch (Rhizoctonia solanii) Leaf Spots such as Helminthosporium Leaf Spot caused by (Drechslera spp.)	Greens and Tees: Repeat at 14 to 21 day intervals as long as required.  Fairways and Other Turf Areas: Repeat at 14 to 28 day intervals as long as required.	1.5 to 2.0  NOTE: On Fairways, for Dollar Spot control, use 1 to 2 oz./1000 ft <sup>2</sup>
Large Patch (Rhizoctonia solanii)	Make first application in fall when conditions are favorable for disease development but no symptoms are visible. Make repeat applications in spring as needed on a 14-21 day interval.	2.0
Fusarium Blight (Fusarium spp.) Necrotic Ring Spot (Leptosphaeria korrae)	Use only preventative foliar applications when conditions first become favorable for disease development. Additional applications should be made as necessary at 28 day intervals.	4.0
Fusarium Patch (Microdochium nivalis) Pacific Northwest Only (West of the Cascade Mountains)	Repeat at 14 to 21 day intervals as long as required.	2.0 to 4.0
Gray Snow Mold (Typhula spp.) Pink Snow Mold (Microdochium nivalis)	One application before first permanent snow cover. If possible, another application during a mid-winter thaw.	2.0 to 4.0
Corticium Red Thread (Laetisaria fuciformis)	Use as a preventative every 14 days as long as required.	2.0

Do not exceed a total of 17.6 ounces product/1000 ft<sup>2</sup> per year.

Do not make more than 6 applications per year.

Under severe conditions, the higher rate and/or shorter interval of applications are recommended for all diseases. When disease pressure is light to moderate, the lower rates and longer intervals are recommended.

Do not mow or irrigate treated areas until the foliage is completely dry, usually a 24 hour waiting period following treatment is preferred.

Do not mix with any sticker, extender, or wetting agent.

Do not graze animals on treated turf.

Do not feed clippings from treated turf to livestock or poultry.

**TANK MIXTURES**

**ADDITIONAL DISEASE CONTROL**

Do not exceed a total of 17.6 ounces product/1000 ft<sup>2</sup> per year.

Do not make more than 6 applications per year.

Summer Stress Complex/Summer Decline: For management of Summer Stress Complex/Summer Decline, apply CHIPCO® ALIETTE® brand Signature™ Fungicide at 4 to 8 ounces of product per 1000 square feet with CHIPCO® brand 26019 Fungicide at 1.5 to 2.0 ounces product per 1000 square feet.

Pythium Blight: If turf is threatened by additional diseases, CHIPCO® brand 26019 Fungicide is compatible with most commonly used fungicides. Pythium blight can be controlled by the tankmixing of CHIPCO® ALIETTE® brand Signature™ Fungicide or CHIPCO® ALIETTE® brand Fungicide with CHIPCO® brand 26019 Fungicide. If a tank mixture is used, follow label directions for the use of that product and apply at the rate recommended for control of the target disease organism.

Gray Snow Mold: For control of Gray Snow Mold (Typhula spp.) in areas where continuous snow cover occurs, apply CHIPCO® brand 26019 Fungicide at 2 to 4 ounces of product per 1000 square feet with Daconil® 2787 Flowable Fungicide at 0 fluid ounces per 1000 square feet or Daconil 2787® WG at 4 1/2 ounces per 1000 square feet. Application must be made in autumn before snow cover occurs. Apply with sufficient water to obtain adequate coverage (1 to 5 gallons of spray solution per 1000 square feet). Use the higher

rate if the turf remains frozen prior to snow cover. For optimal control, reapply this treatment if a winter thaw and loss of snow cover occurs.

**ORNAMENTALS**

**NOT FOR RESIDENTIAL USE**

**FIELD, LANDSCAPE AND GREENHOUSE ORNAMENTS AND CONIFER NURSERIES**

CHIPCO® brand 26019 Fungicide is a broad spectrum fungicide that may be applied safely to a wide range of ornamental flowering and foliage plants, either as a foliar spray, drench or dip. Please read specific instructions and use only as directed.

**RECOMMENDED FOR USE BY COMMERCIAL NURSERY AND LANDSCAPE PERSONNEL.**

CHIPCO® brand 26019 Fungicide is recommended for use on a wide variety of container and field grown flowering and foliage ornamentals as follows :

**DISEASES**

- |                                    |  |
|------------------------------------|--|
| 1. Aerial Web Blight               | ( <i>Rhizoctonia sp.</i> )                         |
| 2. Alternaria Leaf Blight          | ( <i>Alternaria euphorbiae</i> )                   |
| 3. Alternaria Leaf Spot            | ( <i>Alternaria panax, Alternaria tenuissima</i> ) |
| 4. Botrytis Blight                 | ( <i>Botrytis sp.</i> )                            |
| 5. Fusarium Leaf Spot              | ( <i>Fusarium moniliforme</i> )                    |
| 6. Helminthosporium Leaf Spot      | ( <i>Helminthosporium sp.</i> )                    |
| 7. Rhizoctonia stem and root rot   | ( <i>Rhizoctonia sp.</i> )                         |
| 8. Ink Spot                        | ( <i>Drechslera iridis</i> )                       |
| 9. Tulip Fire                      | ( <i>Botrytis tulipae</i> )                        |
| 10. Alternaria Leaf Blight         | ( <i>Alternaria zinniae</i> )                      |
| 11. Ray Blight                     | ( <i>Ascochyta chrysanthami</i> )                  |
| 12. Fusarium Corn rot              | ( <i>Fusarium oxysporum</i> )                      |
| 13. Daffodil Leaf Scorch           | ( <i>Stagnospora curtissii</i> )                   |
| 14. Blossom Blight                 | ( <i>Monilinia fructicola</i> )                    |
| 15. Botrytis Storage Rot           | ( <i>Botrytis sp.</i> )                            |
| 16. Cyindrocladium Blight and Wilt | ( <i>Cyindrocladium scoparium</i> )                |

**PLANT TOLERANCE:** Plant tolerances to CHIPCO® brand 26019 Fungicide have been found to be acceptable in the specific genera and species listed on this label. It is not possible to evaluate every species or variety of ornamental plant for its tolerance to CHIPCO® brand 26019 Fungicide. The user should test for possible phytotoxic responses in other plants on a small area basis using recommended rates prior to commercial use.

ORNAMENTALS

Ageratum (1 to 7)	Dieffenbachia (1 to 7)	Pansy (1 to 7)
Ajuga (1 to 7)	Dizygotheca (1 to 7)	Peach (ornamental) (1 to 7)
Almond (ornamental) (1 to 7)	Dogwood (1 to 7)	Peperomia (1 to 7)
Alyssum (1 to 7)	Dracena (1 to 7)	Periwinkle (1 to 7)
Andromeda (1 to 7)	English Ivy (1 to 7)	Philodendron (1 to 7)
Aphelandra (1 to 7)	Episcia (1 to 7)	Phlox (1 to 7)
Artemisia (1 to 7)	Euonymous (1 to 7)	Pilea (1 to 7)
Aster (1 to 7)	Ficus (1 to 7)	Pine (1 to 7)
Azalea (1 to 7, 16)	Forsythia (1 to 7)	Pitosporum (1 to 7)
Boxwood (1 to 7)	Gazania (1 to 7)	Plum (ornamental) (1 to 7, 14)
Cactus (1 to 7)	Geranium (1 to 7)	Poinsettia (1 to 7)
Calendula (1 to 7)	Gladiolus (1 to 7, 12)	Poppy (1 to 7)
Carnation (1 to 7)	Gloxinia (1 to 7)	Pothos* (1 to 6)
Cherry (ornamental) (1 to 7)	Gypsophila (1 to 7)	Primrose (1 to 7)
Chrysanthemum (1 to 7, 11)	Hawthorn (1 to 7)	Privet (1 to 7)
Cineraria (1 to 7)	Holly (1 to 7)	Protea (1 to 7)
Cistena Plum (1 to 7, 14)	Hoya (1 to 7)	Pyracantha (1 to 7)
Coleus (1 to 7)	Hydrangea (1 to 7)	Rhododendron (1 to 7, 16)
Columbine (1 to 7)	Impatiens* (1 to 7)	Rose Tree of China (1 to 7)
Coral Bells (Heuchera) (1 to 7)	Iris (1 to 8)	Rose (1 to 7, 15)
Crape Myrtle (1 to 7)	Juniper (1 to 7)	Salvia (1 to 7)
Crassula (1 to 7)	Kalanchoe (1 to 7)	Schefflera (1 to 7)
Croton (1 to 7)	Lillies (1 to 7)	Snapdragon (1 to 7)
Cyclamen (1 to 7)	Lipstick vine (1 to 7)	Statice (1 to 7)
Daffodils (1 to 7, 13)	(Aeschynanthus)	Tree Ivy (1 to 7)
Dahlia (1 to 7)	Marigold (1 to 7)	Tulip (1 to 7, 9)
Delphinium (1 to 7)	Monarda (Bee Balm) (1 to 7)	Viburnum (1 to 7)
Deutzia (1 to 7)	Pachysandra (1 to 7)	Violet (1 to 7)
Dianthus (1 to 7)	Palm (1 to 7)	Zinnia (1 to 7, 10)

\*NOTE: Do not use CHIPCO® brand 26019 Fungicide as a soil drench on Impatiens, and Pothos. Do not use CHIPCO® brand 26019 Fungicide on Spathiphyllum.

7/19

## HOW TO USE CHIPCO® BRAND 26019 FUNGICIDE AS A FOLIAR SPRAY

Apply CHIPCO® brand 26019 Fungicide as a foliar spray to run-off, at the following rates and intervals, when conditions become favorable for disease development.

DISEASE	POUNDS PRODUCT/ACRE	INTERVAL OF APPLICATION	USE DIRECTIONS
Aerial Web Blight ( <i>Rhizoctonia sp.</i> )	1.0 to 2.5	7 to 14 Days	Spray plants to insure thorough coverage.
Alternaria Leaf Blight ( <i>Alternaria zinniae</i> )			
Alternaria Leaf Blight ( <i>Alternaria euphorbiae</i> )			
Alternaria Leaf Spot ( <i>Alternaria panax</i> ) ( <i>Alternaria tenissima</i> )			
Botrytis Blight ( <i>Botrytis sp.</i> )			
Fusarium Leaf Spot ( <i>Fusarium moniliforme</i> )			
Helminthosporium Leaf Spot ( <i>Helminthosporium sp.</i> )			
Ink Spot ( <i>Drechslera iridis</i> )			
Ray Blight ( <i>Ascochyta chrysanthami</i> )			
Tulip Fire ( <i>Botrytis tulipae</i> )			
Daffodil Leaf Scorch ( <i>Stagnospora curtissi</i> )			
Blossom Blight ( <i>Monilinia fructicola</i> )			

Do not apply more than 2.5 pounds product/acre per application.

Do not make more than 4 applications per crop per year.

Under severe disease pressure, use the highest recommended rate and/or the shortest spray interval. When disease pressure is light to moderate, the lower rates and longer intervals are recommended.

NOTE: A resin based surfactant should be added to foliar sprays for use on iris, lillies, and tulips.

## HOW TO USE CHIPCO® BRAND 26019 FUNGICIDE AS A DRENCH

Apply CHIPCO® brand 26019 Fungicide as a drench at seeding and/or after transplanting for Rhizoctonia control at the following rates and interval:

DISEASE	PRODUCT/100 GALS.	INTERVAL OF APPLICATION
Rhizoctonia Stem and Root Rot ( <i>Rhizoctonia spp.</i> )	6 1/2 ounces Apply 1 to 2 pints of solution per square foot.	14 Days

Do not exceed a total of 17.6 ounces product/1000 ft<sup>2</sup> per year.

Do not make more than 6 applications per year.

Under severe pressure, use the highest recommended rate, when disease pressure is light to moderate, the lower rate is recommended.

NOTE: Do not use CHIPCO® brand 26019 Fungicide as a drench on impatiens and pothos.

Do not use CHIPCO® brand 26019 Fungicide on Spathiphyllum.

### HOW TO USE CHIPCO® BRAND 26019 FUNGICIDE AS A DIP

PLANT SPECIES	DISEASE	POUNDS PRODUCT 100 GALLONS	DIP DURATION	DIRECTIONS
Rose	Botrytis Storage Rot ( <i>Botrytis sp.</i> )	1.0	5 Minutes	Dip bare root roses prior to cold storage.
Azalea and Rhododendron	Cylindrocladium Blight and Wilt ( <i>Cylindrocladium scoparium</i> )	1.0	5 Minutes	Dip cuttings prior to planting.
Gladiolus	Fusarium Corm Rot ( <i>Fusarium oxysporum</i> )	2.0	5 Minutes	Dip corms prior to storage.

### DIRECTIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Do not use through sprinkler irrigation systems in California.

Apply this product only through sprinkler irrigation systems including center pivot. Do not apply this product through any other type of irrigation system.

**SPRAY PREPARATION:** Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

**APPLICATION INSTRUCTIONS:** First prepare a suspension of CHIPCO® brand 26019 Fungicide in a mix tank. Fill tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of CHIPCO® brand 26019 Fungicide, and then the remaining volume of water. (Suspension concentrations using the appropriate dosage per acre recommended on this label of CHIPCO® brand 26019 Fungicide per 1 to 4 gallons of water are recommended) Then set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the suspension of CHIPCO® brand 26019 Fungicide into the irrigation water line so as to deliver the desired rate per acre. The suspension of CHIPCO® brand 26019 Fungicide should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. If you should have any other questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

**NOTE:** When treatment with CHIPCO® brand 26019 Fungicide has been completed, further field irrigation over the treated area should be avoided for 24 to 48 hours to prevent washing the chemical off the crop.

### GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute solution per unit time. 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 shutdown. 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, when system connection or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from nonuniform distribution of treated water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation must shut the system down and make necessary adjustments should the need arise.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.





10/19

# CHIPCO® brand 26019 SP50 Fungicide

## In Water Soluble Packaging

A Fungicide for the Prevention and Control of Certain Diseases of Turfgrass and Ornamentals

**ACTIVE INGREDIENT:**

Iprodione: 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide ..... 50.0%

**INERT INGREDIENTS:** .....

50.0%

EPA Reg. No. 264-481

EPA Est. No.

### KEEP OUT OF REACH OF CHILDREN CAUTION

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-800-334-9745

#### STATEMENT OF PRACTICAL TREATMENT

**IN CASE OF CONTACT:** Wash skin with soap and water.  
**FOR EYES:** Flush with water for 15 minutes and get medical attention.

#### PRECAUTIONARY STATEMENTS

#### CAUTION

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Avoid contact with skin, eyes, or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

#### PERSONAL PROTECTIVE EQUIPMENT

Mixers, loaders, others exposed to the concentrate, cleaners/repairers of equipment, and applicators applying as a dip treatment must wear coveralls over long-sleeve shirt and long pants, waterproof gloves, chemical-resistant footwear plus socks, chemical-resistant apron, and a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

Applicators using handheld equipment must wear coveralls over long-sleeve shirt and long pants, waterproof gloves, chemical-resistant footwear plus socks, chemical-resistant headgear for overhead exposures, and a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

Applicators using aircraft or mechanical ground equipment (groundboom, airblast, etc.), and flaggers for aerial applications must wear long-sleeve shirt and long pants, and shoes plus socks.

Applicators using truck-mounted equipment with a handgun at the end of a hose (i.e., for commercial turfgrass or ornamental applications) and all other handlers not specified above must wear long-sleeve shirt and long pants, waterproof gloves, and shoes plus socks.

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

Discard clothing or other materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### 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.

Water-soluble packets when used correctly qualify as a closed loading system under the WPS. Handlers handling this product while it is enclosed in intact water-soluble packets are permitted to wear long-sleeved shirt, long pants, shoes plus socks, waterproof gloves, and a chemical-resistant apron, provided the other required PPE is immediately available in case the bag is opened.

**ACCEPTED**  
12/16/99  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 264-481

### 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.
- 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.

### ENVIRONMENTAL HAZARDS

This chemical can contaminate surface water through aerial and ground spray applications. Under some conditions, it may also have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

This pesticide is toxic to invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

### DIRECTIONS FOR USE

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

Read entire label before using this product.

Do not apply this product in a way that will contact workers or other persons, either directly or indirectly 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 of 12 hours for ornamental uses. The restricted entry interval for all other WPS uses is 24 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, waterproof gloves and shoes plus socks.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to ornamental and turf uses (golf courses, landscape and institutional areas) 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.

Do not enter or allow others to enter the treated area until sprays have dried.

### STORAGE AND DISPOSAL

#### STORAGE

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

#### PESTICIDE DISPOSAL

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

#### CONTAINER DISPOSAL

Completely empty outer bag into application equipment. Then dispose of empty outer bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## GENERAL CAUTIONS AND RESTRICTIONS

Use of this product at residential sites is prohibited.

Except for use on golf courses, if applying this product adjacent to a water body such as a lake, reservoir, river, permanent stream, marsh or natural pond, estuary, or commercial fish pond, there must be at least a 25-foot vegetative buffer strip between the water body and the point of application.

For golf courses only, do not apply to turf cut higher than 1" on golf holes where water bodies are present.

Do not apply this product when the wind direction is toward aquatic areas.

In order to assure maximum crop tolerance and disease control, follow recommendations on this label and all the precautions and limitations of the package label.

**GENERAL HANDLING INSTRUCTIONS:** Each CHIPCO® brand 26019 SP50 Fungicide water soluble packet comes sealed in a clear plastic outer sleeve. Do not break the seal until the time of use. To use, open the end of the outer sleeve by tearing along the printed solid black line. Do not use a knife or other sharp object to break the seal. Once the outer protective sleeve is open, the water soluble packet inside can be dropped into the spray tank at the appropriate time without touching it.

### HANDLING PRECAUTIONS

- Do not allow the empty outer sleeve or the tear-strip to fall into the spray tank as they are not water soluble and may clog the sprayer.
- Do not handle the inner packet with wet gloves as the packets will begin to dissolve on contact with even a small amount of water.
- Do not open the inner bags or attempt to remove the contents from them. The water soluble packet is not designed to be re-measured or subdivided.
- The PVA packets should not be opened and partial packets not used for a tankmix.
- The entire contents of the water soluble packet must be used.

## TURF

CHIPCO® brand 26019 SP50 is a foliar applied fungicide, recommended for turfgrass disease control on golf courses, sod farms, and institutional areas where fine turf is grown.

When used in conjunction with good turf management practices, CHIPCO® brand 26019 SP50 Fungicide is effective in controlling the following diseases:

### Spring, Summer And Fall Disease

Dollar Spot, Brown Patch, Hot Weather Brown Patch, Cool Season Brown Patch, Fusarium Blight, Necrotic Ring Spot, Leaf Spot, Corticium Red Thread and Melting Out are controlled on all common turfgrasses.

### Winter Diseases

Fusarium Patch (Pink Snow Mold) and Gray Snow Mold

Apply the recommended rates as indicated in the table in 1 to 10 gallons of water per 1000 square feet. **Do not drench.** Do not allow the spray mixture to stand for longer than 12 hours as some breakdown of the product may occur. Maintain agitation during spray operations. Apply with a properly calibrated sprayer.

**TURF**

Begin applications when conditions favor disease development or when the disease first appears unless otherwise noted.

DISEASE	INTERVAL OF APPLICATIONS	RATE OZ. PRODUCT/ 1000 FT <sup>2</sup>	NUMBER OF WS PACKETS/ ACRE
<b>Dollar Spot</b> (Lanzia spp. and <b>Brown Patch</b> (Rhizoctonia solani) <b>Leaf Spots</b> such as Helminthosporium Leaf Spot caused by (Drechslera spp.)	<b>Greens and Tees:</b> Repeat at 14 to 21 day intervals as long as required.  <b>Fairways and Other Turf Areas:</b> Repeat at 22 to 28 day intervals as long as required.	1.1 to 2.2  <b>NOTE:</b> On Fairways, for Dollar Spot control, use 1.1 oz./1000 ft <sup>2</sup> or 3 packets/A.	4 to 6
<b>Large Patch</b> (Rhizoctonia solanii)	Make first application in fall when conditions are favorable for disease development but no symptoms are visible. Make repeat applications in spring as needed on a 14-21 day interval.	2.2	6
<b>Fusarium Blight</b> (Fusarium spp.) <b>Necrotic Ring Spot</b> (Leptosphaeria korrae)	Use only preventative foliar applications when conditions first become favorable for disease development. Two additional applications should be made at 2 to 3 week intervals.	4.0	11
<b>Fusarium Patch</b> (Microdochium nivalis) <b>Pacific Northwest Only</b> (West of the Cascade Mountains)	Repeat at 14 to 21 day intervals as long as required.	2.2 to 4.0	6 to 11
<b>Gray Snow Mold</b> (Typhula spp.) <b>Pink Snow Mold</b> (Microdochium nivalis)	One application before first permanent snow cover. If possible, another application during a mid-winter thaw.	2.2 to 4.0	6 to 11
<b>Corticium Red Thread</b> (Laetisaria fuciformis)	Use as a preventative every 14 days as long as required.	2.2	6

- Do not exceed a total of 17.6 oz. product/1000 ft<sup>2</sup> per year.
- Do not make more than 6 applications per year.
- Under severe conditions, the higher rate and/or shorter interval of applications are recommended for all diseases. When disease pressure is light to moderate, the lower rates and longer intervals are recommended.
- Do not mow or irrigate treated areas until the foliage is completely dry, usually a 24 hour waiting period following treatment is preferred.
- Do not mix with any sticker, extender, or wetting agent.
- Do not graze animals on treated turf.
- Do not feed clippings from treated turf to livestock or poultry.

## TANK MIXTURES

### ADDITIONAL DISEASE CONTROL

**Gray Snow Mold:** For control of Gray Snow Mold (*Typhula* spp.) in areas where continuous snow cover occurs, apply CHIPCO® brand 26019 SP50 Fungicide at 2.2 to 4 ounces of product per 1000 square feet (6 to 11 water soluble packets/Acre) with Daconil 2787® Flowable Fungicide at 8 fluid ounces per 1000 square feet or Daconil 2787® WG at 4 1/2 ounces per 1000 square feet. Application must be made in autumn before snow covers occurs. Apply with sufficient water to obtain adequate coverage (1 to 5 gallons of spray solution per 1000 square feet). Use the higher rate if the turf remains frozen prior to snow cover. For optimal control, reapply this treatment if a winter thaw and loss of snow cover occurs.

**Pythium Blight:** If turf is threatened by additional diseases, CHIPCO® brand 26019 SP50 Fungicide is compatible with most commonly used fungicides. Pythium blight can be controlled by the tank-mixing of CHIPCO® ALIETTE® brand Fungicide with CHIPCO® brand 26019 SP50 Fungicide. If a tank mixture is used, follow label directions for the use of that product and apply at the rate recommended for control of the target disease organism.

Do not exceed a total of 17.6 oz. product/1000 ft² per year. Do not make more than 6 applications per year.

## ORNAMENTALS

### NOT FOR RESIDENTIAL USE

### FIELD, LANDSCAPE AND GREENHOUSE ORNAMENTALS AND CONIFER NURSERIES

CHIPCO® brand 26019 SP50 Fungicide is a broad spectrum fungicide that may be applied safely to a wide range of ornamental flowering and foliage plants, either as a foliar spray, drench or dip. Please read specific instructions and use only as directed.

### RECOMMENDED FOR USE BY COMMERCIAL NURSERY AND LANDSCAPE PERSONNEL.

CHIPCO® brand 26019 SP50 Fungicide is recommended for use on a wide variety of container and field grown flowering and foliage ornamentals as follows :

### DISEASES

- |  |  |
|--|--|
| 1. Aerial Web Blight                       | ( <i>Rhizoctonia</i> sp.)  |
| 2. Alternaria Leaf Blight                  | ( <i>Alternaria</i> <i>euphorbiae</i> )                                  |
| 3. Alternaria Leaf Spot                    | ( <i>Alternaria</i> <i>panax</i> , <i>Alternaria</i> <i>tenuissima</i> ) |
| 4. Botrytis Blight                         | ( <i>Botrytis</i> sp.)   |
| 5. Fusarium Leaf Spot                      | ( <i>Fusarium</i> <i>moniliforme</i> )                                   |
| 6. Helminthosporium Leaf Spot              | ( <i>Helminthosporium</i> sp.)   |
| 7. Rhizoctonia stem and root rot           | ( <i>Rhizoctonia</i> sp.)  |
| 8. Ink Spot                                | ( <i>Drechslera</i> <i>iridis</i> )                                      |
| 9. Tulip Fire                              | ( <i>Botrytis</i> <i>tulipae</i> )                                       |
| 10. Alternaria Leaf Blight                 | ( <i>Alternaria</i> <i>zinniae</i> )                                     |
| 11. Ray Blight                             | ( <i>Ascochyta</i> <i>chrysanthami</i> )                                 |
| 12. Fusarium Corm rot                      | ( <i>Fusarium</i> <i>oxysporum</i> )                                     |
| 13. Daffodil Leaf Scorch                   | ( <i>Stagnospora</i> <i>curtissi</i> )                                   |
| 14. Blossom Blight                         | ( <i>Monilinia</i> <i>fructicola</i> )                                   |
| 15. Botrytis Storage Rot                   | ( <i>Botrytis</i> sp.)   |
| 16. <i>Cylindrocladium</i> Blight and Wilt | ( <i>Cylindrocladium</i> <i>scoparium</i> )                              |

**PLANT TOLERANCE:** Plant tolerances to CHIPCO® brand 26019 SP50 Fungicide have been found to be acceptable in the specific genera and species listed on this label. It is not possible to evaluate every species or variety of ornamental plant for its tolerance to CHIPCO® brand 26019 SP50 Fungicide. The user should test for possible phytotoxic responses in other plants on a small area basis using recommended rates prior to commercial use.

**ORNAMENTALS**

- Ageratum (1 to 7)
- Ajuga (1 to 7)
- Almond (ornamental) (1 to 7)
- Alyssum (1 to 7)
- Andromeda (1 to 7)
- Aphelandra (1 to 7)
- Artemisia (1 to 7)
- Aster (1 to 7)
- Azalea (1 to 7, 16)
- Boxwood (1 to 7)
- Cactus (1 to 7)
- Calendula (1 to 7)
- Camation (1 to 7)
- Cherry (ornamental) (1 to 7)
- Chrysanthemum (1 to 7, 11)
- Cineraria (1 to 7)
- Cistena Plum (1 to 7, 14)
- Coleus (1 to 7)
- Columbine (1 to 7)
- Coral Bells (Heuchera) (1 to 7)
- Crape Myrtle (1 to 7)
- Crassula (1 to 7)
- Croton (1 to 7)
- Cyclamen (1 to 7)
- Daffodils (1 to 7, 13)
- Dahlia (1 to 7)
- Delphinium (1 to 7)
- Deutzia (1 to 7)
- Dianthus (1 to 7)
- Dieffenbachia (1 to 7)
- Dizygotheca (1 to 7)
- Dogwood (1 to 7)
- Dracena (1 to 7)
- English Ivy (1 to 7)
- Episcia (1 to 7)
- Euonymous (1 to 7)
- Ficus (1 to 7)
- Forsythis (1 to 7)
- Gazania (1 to 7)
- Geranium (1 to 7)
- Gladiolus (1 to 7, 12)
- Gloxinia (1 to 7)
- Gypsophila (1 to 7)
- Hawthorn (1 to 7)
- Holly (1 to 7)
- Hoya (1 to 7)
- Hydrangea (1 to 7)
- Impatiens\* (1 to 7)
- Iris (1 to 8)
- Juniper (1 to 7)
- Kalanchoe (1 to 7)
- Lillies (1 to 7)
- Lipstick vine (1 to 7  
(Aeschynanthus)
- Marigold (1 to 7)
- Monarda (Bee Balm) (1 to 7)
- Pachysandra (1 to 7)
- Palm (1 to 7)
- Pansy (1 to 7)
- Peach (ornamental) (1 to 7)
- Peperomina (1 to 7)
- Periwinkle (1 to 7)
- Philodendron (1 to 7)
- Phlox (1 to 7)
- Pilea (1 to 7)
- Pine (1 to 7)
- Pitosporum (1 to 7)
- Plum (ornamental) (1 to 7, 14)
- Poinsettia (1 to 7)
- Poppy (1 to 7)
- Pothos\* (1 to 6)
- Primrose (1 to 7)
- Privet (1 to 7)
- Protea (1 to 7)
- Pyracantha (1 to 7)
- Rhododendron (1 to 7, 16)
- Rose Tree of China (1 to 7)
- Rose (1 to 7, 15)
- Salvia (1 to 7)
- Schefflera (1 to 7)
- Snapdragon (1 to 7)
- Statice (1 to 7)
- Tree Ivy (1 to 7)
- Tulip (1 to 7, 9)
- Viburnum (1 to 7)
- Violet (1 to 7)
- Zinnia (1 to 7, 10)

\*NOTE: Do not use CHIPCO® brand 26019 SP50 Fungicide as a soil drench on Impatiens or Pothos .

Do not use CHIPCO® brand 26019 SP50 Fungicide on Spathiphyllum.



### HOW TO USE CHIPCO® BRAND 26019 SP50 FUNGICIDE AS A FOLIAR SPRAY

Apply CHIPCO® brand 26019 SP50 Fungicide as a foliar spray to run-off, at the following rates and intervals, when conditions become favorable for disease development.

DISEASE	POUNDS PRODUCT/ACRE	NUMBER OF <del>TS</del> PACKETS	INTERVAL OF APPLICATION	USE DIRECTIONS
<b>Aerial Web Blight</b> ( <i>Rhizoctonia</i> sp.)	1.0 to <del>2.5</del>	<del>2 to 5</del> per two acres	7 to 14 days	Spray plants to insure through coverage.
<b>Alternaria Leaf Blight</b> ( <i>Alternaria zinniae</i> )				
<b>Alternaria Leaf Blight</b> ( <i>Alternaria euphorbiae</i> )				
<b>Alternaria Leaf Spot</b> ( <i>Alternaria panax</i> ) ( <i>Alternaria tenissima</i> )				
<b>Botrytis Blight</b> ( <i>Botrytis</i> sp.)				
<b>Fusarium Leaf Spot</b> ( <i>Fusarium moniliforme</i> )				
<b>Helminthosporium Leaf Spot</b> ( <i>Helminthosporium</i> sp.)				
<b>Ink Spot</b> ( <i>Drechslera iridis</i> )				
<b>Ray Blight</b> ( <i>Ascochyta chrysanthami</i> )				
<b>Tulip Fire</b> ( <i>Botrytis tulipae</i> )				
<b>Daffodil Leaf Scorch</b> ( <i>Stagnosporo curtissi</i> )				
<b>Blossom Blight</b> ( <i>Monilinia fructicola</i> )				

Do not apply more than 2.5 pounds product/acre per application.

Do not make more than 4 applications per crop per year.

Under severe disease pressure, use the highest recommended rate and/or the shortest spray interval. When disease pressure is light to moderate, the lower rates and longer intervals are recommended.

**NOTE:** A resin based surfactant should be added to foliar sprays for use on iris, lillies, and tulips.



## HOW TO USE CHIPCO® BRAND 26019 SP50 FUNGICIDE AS A DRENCH

Apply CHIPCO® brand 26019 SP50 Fungicide as a drench at seeding and/or after transplanting for Rhizoctonia control at the following rates and interval:

DISEASE	PRODUCT/100 GALS./PACKET PER 250 GALS.	INTERVAL OF APPLICATION
Rhizoctonia Stem and Root Rot (Rhizoctonia spp.)	6 1/2 ounces 1 Apply 1 to 2 pints of solution per square foot.	14 Days

Do not exceed a total of 17.6 oz. product/1000 ft<sup>2</sup> per year.

Do not make more than 6 applications per year.

Under severe disease pressure, use the highest recommended rate. When disease pressure is light to moderate, the lower rate is recommended.

**NOTE:** Do not use CHIPCO® brand 26019 SP50 Fungicide as a drench on Impatiens or Pothos.

Do not use CHIPCO® brand 26019 SP50 Fungicide on Spathiphyllum.

## HOW TO USE CHIPCO® BRAND 26019 SP50 FUNGICIDE AS A DIP

PLANT SPECIES	DISEASE	POUNDS PRODUCT PER 100 GALLONS	WATER SOLUBLE PACKETS	DIP DURATION	DIRECTIONS
Rose	Botrytis Storage Rot ( <i>Botrytis sp.</i> )	1.0	1	5 Minutes	Dip bare root roses prior to cold storage.
Azalea and Rhododendron	Cylindrocladium Blight and Wilt ( <i>Cylindrocladium scoparium</i> )	1.0	1	5 Minutes	Dip cuttings prior to planting.
Gladiolus	Fusarium Corm Rot ( <i>Fusarium oxysporum</i> )	2.0	2	5 Minutes	Dip corms prior to storage.

## DIRECTIONS FOR USE THROUGH SPRINKLER IRRIGATION SYSTEMS

Apply this product only through sprinkler irrigation systems including center pivot and solid set. Do not apply this product through any other type of irrigation system.

**SPRAY PREPARATION:** Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

**APPLICATION INSTRUCTIONS:** First prepare a suspension of CHIPCO® brand 26019 SP50 Fungicide in a mix tank. Fill tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of CHIPCO® brand 26019 SP50 Fungicide, and then the remaining volume of water. (Suspension concentrations using the appropriate dosage per acre recommended on this label of CHIPCO® brand 26019 SP50 Fungicide per 1 to 4 gallons of water are recommended) Then set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the suspension of CHIPCO® brand 26019 SP50 Fungicide into the irrigation water line so as to deliver the desired rate per acre. The suspension of CHIPCO® brand 26019 SP50 Fungicide should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. If you should have any other questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

**NOTE:** When treatment with CHIPCO® brand 26019 SP50 Fungicide has been completed, further field irrigation over the treated area should be avoided for 24 to 48 hours to prevent washing the chemical off the crop.

## GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute solution per unit time.

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 shutdown. 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.

Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from nonuniform distribution of treated water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

## SPRAY DRIFT

**SENSITIVE AREAS:** The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitats for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulation.

1. The distance of the outer most nozzles on the boom must not exceed  $\frac{3}{4}$  the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

**INFORMATION ON DROPLET SIZE:** (This section is advisory in nature and does not supersede the mandatory label requirements)

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions below).

**CONTROLLING DROPLET SIZE:** (This section is advisory in nature and does not supersede the mandatory label requirements)

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

**BOOM LENGTH:** (This section is advisory in nature and does not supersede the mandatory label requirements)

For some use patterns, reducing the effective boom length to less than  $\frac{3}{4}$  of the wingspan or rotor length may further reduce drift without reducing swath width.

**APPLICATION HEIGHT:** (This section is advisory in nature and does not supersede the mandatory label requirements)

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

**SWATH ADJUSTMENT:** (This section is advisory in nature and does not supersede the mandatory label requirements)

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

**WIND:** (This section is advisory in nature and does not supersede the mandatory label requirements)

Drift potential is lowest between wind speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

**TEMPERATURE AND HUMIDITY:** (This section is advisory in nature and does not supersede the mandatory label requirements)

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

