



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

MAR 14 1994

Ralph P. Burton  
ISK BIOTECH CORP  
5966 HEISLEY ROAD BOX 8000  
MENTOR, OH 44061

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 09/7/93 in Response to PR Notice 93-7  
EPA Reg. No. 50534-202  
DACONIL SDG

**IMPORTANT NOTICE:** This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**SERIOUS ERROR(S) ON SUBMITTED LABELING:**

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

**YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING.** Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

**YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.**



Recycled/Recyclable  
Printed with Soy/Canola ink on paper that  
contains at least 50% recycled fiber

Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director  
Compliance Division, (7203)  
Worker Protection Notification  
Office of Compliance Monitoring  
U.S. Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

**IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.**

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- **BEFORE** selling or distributing any product bearing the final printed labeling as amended

**AND**

- **WITHIN** one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001



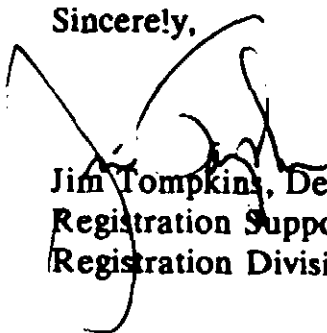
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Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

Ralph P. Burton  
ISK BIOTECH CORP  
5966 HEISLEY ROAD BOX 8000  
MENTOR OH 44061

Comment for: EPA Reg Nr.50534-202  
DACONIL SDG

The following specific comments pertain to your WPS  
labeling submission concerning the product  
cited above:

Remove the statement "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." from its current position within  
the Agricultural Use Box and place it above the Agricultural  
Use Box.

You omitted the OV Respirator required for greenhouse use from  
your old label.

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Net Contents:  
**Daconil SDG™**

**Turf and Ornamental Fungicide  
(82.5% Water Dispersible Granules)**

|  |        |
|--|--------|
| Active Ingredient: Chlorothalonil (tetrachloroisophthalonitrile) | 82.5%  |
| Inert Ingredients:   | 17.5%  |
| Total:   | 100.0% |

**Keep Out of Reach of Children**

**DANGER - PELIGRO**

*Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)*

See side panel for additional precautionary statements.

**ISK Biotech Corporation**  
5966 Heisley Road  
P.O. Box 8000  
Mentor, Ohio 44061-8000

EPA Reg. No. 50534-202  
EPA Est. No. 50534-TX-01  
3316-4060-9069-9304

DACONIL SDG is a Trademark of ISK Biotech Corporation.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

MAR 14 1994  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
50534-202

**Daconil SDG**  
**Turf and Ornamental Fungicide**  
**(82.5% Water Dispersible Granules)**

Read entire label carefully and use only as directed.

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**DANGER - PELIGRO**

Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. May be a potential skin sensitizer.

~~DO NOT get in eyes or on clothing. Wear goggles or face shield, long sleeve shirt, long pants, and gloves while mixing, loading and applying this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.~~ Harmful if inhaled. Avoid breathing dust or spray mist. Avoid prolonged contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. DO NOT take internally.

Note to User: This product may produce mild bronchial irritation and temporary irritation of the skin characterized by redness or rash on exposed skin areas. Affected persons should consult a physician.

~~DO NOT apply this product in such a manner as to directly, or through drift, expose workers or other persons. The area being treated must be vacated by unprotected persons.~~

**First Aid**

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. DO NOT induce vomiting or give anything by mouth to an unconscious person.

If in eyes: Immediately flush eyes with plenty of water and continue for 15 minutes. Seek medical attention for eyes immediately.

If on skin: Wash with plenty of soap and water. Get medical attention.

Note to physician: Persons having temporary irritation may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish, aquatic invertebrates, and marine/estuarine organisms. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 washwaters. DO NOT apply when weather conditions favor drift from treated areas. Apply only to areas specified on label.

**STORAGE AND DISPOSAL**

DO NOT contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**Storage:** Store in a dry place.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** 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.

**WARRANTY AND LIMITATION OF DAMAGES**

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO. In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

**Directions For Use**

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

***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.*

**SEE ENCLOSED FOLDER FOR DIRECTIONS FOR USE.**

**PLACE INSERT POUCH HERE**



(INSERT FOLDER)

**Net Contents:**

**Daconil SDG™**

**Turf and Ornamental Fungicide  
(82.5% Water Dispersible Granules)**

**Active Ingredient:** Chlorothalonil (tetrachloroisophthalonitrile) 82.5%

**Inert Ingredients:** 17.5%

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**Total:** 100.0%

DACONIL SDG is a Trademark of ISK Biotech Corporation.

TURF CARE is a Registered Trademark of ISK Biotech Corporation.

**Keep Out of Reach of Children**

**DANGER - PELIGRO**

*Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)*

**If in eyes:** Immediately flush eyes with plenty of water and continue for 15 minutes.  
Seek medical attention for eyes immediately.

See precautionary statements.

**ISK Biotech Corporation**

5966 Heisley Road

P.O. Box 8000

Mentor, Ohio 44061-8000

EPA Reg. No. 50534-202

EPA Est. No. 50534-TX-01

0000-0000-0000-9304

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

#### DANGER

Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. May be a potential skin sensitizer.

DO NOT get in eyes or on clothing. ~~Wear goggles or face shield, long sleeve shirt, long pants, and gloves while mixing, loading and applying this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.~~ Harmful if inhaled. Avoid breathing dust or spray mist. Avoid prolonged contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. DO NOT take internally.

Note to User: This product may produce mild bronchial irritation and temporary irritation of the skin characterized by redness or rash on exposed skin areas. Affected persons should consult a physician.

~~DO NOT apply this product in such a manner as to directly, or through drift, expose workers or other persons. The area being treated must be vacated by unprotected persons.~~

#### FIRST AID:

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. DO NOT induce vomiting or give anything by mouth to an unconscious person.

If in eyes: Immediately flush eyes with plenty of water and continue for 15 minutes. Seek medical attention for eyes immediately.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

Note to physician: Persons having temporary irritation may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

### **Personal Protective Equipment (PPE):**

**WPS USES:** Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) -- in general, agricultural-plant uses are covered -- must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, protective eye wear, and a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

**NON-WPS USES:** Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) -- in general, only agricultural-plant uses are covered -- must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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 clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### **ENVIRONMENTAL HAZARDS**

This product is toxic to fish, aquatic invertebrates, and marine/estuarine organisms. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 washwaters. DO NOT apply when weather conditions favor drift from treated areas. Apply only to areas specified on label.

## **DIRECTIONS FOR USE**

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

*For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.*

### **AGRICULTURAL USE REQUIREMENTS**

*Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.*

*Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.*

*Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.*

*PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves, shoes plus socks, and protective eye wear.*

DO NOT combine DACONIL SDG in the spray tank with pesticides, surfactants or fertilizers, unless your prior use has shown the combination physically compatible, effective and noninjurious under your conditions of use. DO NOT combine DACONIL SDG with Dipel 4L, Foil, Triton AG-98, Triton B-1956, Latron B-1956 or Latron AG-98 as phytotoxicity may result from the combination when applied to some species on this label.

Dipel is a registered trademark of Abbott Laboratories. Foil is a registered trademark of Ecogen Corporation. Triton AG-98, Triton B-1956, Latron B-1956 and Latron AG-98 are trademarks of Rohm and Haas Company.

The required amount of DACONIL SDG should be added slowly into the spray tank during filling. With concentrate sprays, pre-mix the required amount of DACONIL SDG in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations.

**Golf Course Fairways, Lawns & Other Turfgrasses:**

Apply DACONIL SDG in 30 to 40 gallons of water per acre. Begin applications when conditions favor disease development and repeat applications as long as these conditions persist. Under severe disease conditions use the highest rate and shortest interval corresponding with the application schedule selected from the table below. DO NOT mow or water after treatment until spray deposited on turfgrass is thoroughly dry; DACONIL SDG should always be used in conjunction with good turf management practices.

| Diseases Controlled*                    | Interval of Application | Application Rate Per Acre |
|---|-------------------------|---------------------------|
| 1. Dollar spot                          | 14-21 days              | 7-10 days<br>5 to 9.1 lb  |
| 2. Leaf spot, Melting-out, Brown blight | 7-10 days<br>14-21 days | 5 lb<br>5 to 9.1 lb       |
| 3. Brown patch                          | 7-14 days               | 5 to 9.1 lb               |
| 4. Gray leaf spot                       | 7-10 days               | 5 to 10 lb                |
| 5. Red thread                           |                         | 7-10 days                 |
| 6. Anthracnose                          | 7-14 days               | 7.5 to 15 lb              |

a/ Low rate is not effective on intensively mowed turfgrasses such as golf course tees and greens.

**Golf Course Tees, Greens and Ornamental Turfgrass:**

Apply DACONIL SDG in an adequate amount of water to provide complete coverage. This amount may vary from 90 to 450 gallons per acre. See below for suggested rates and timing. Under severe disease conditions, use the high rate and apply on a 7 day schedule.

| Rate: Pounds Per Acre                    |                         |                |                      |
|--|-------------------------|----------------|----------------------|
| Diseases Controlled*                     | Interval of Application | Before After   |                      |
|  |                         | Disease Occurs | Disease Has Occurred |
| 1. Dollar spot                           | 7-14 days               | 5-10           | 10-20                |
| 2. Brown patch                           | 7-14 days               | 5-10           | 10-20                |
| 3. Leaf spots, Melting-out               | 7-10 days               | 5-10           | 10-20                |
| 4. Gray leaf spot                        | 7-10 days               | 5-10           | 10-20                |
| 5. Red thread                            | 7-10 days               | 5-15           | 15-20                |
| 6. Anthracnose                           | 7-14 days               | 7.5-15         | -                    |
| 7. Copper spot                           | 7-10 days               | 10-15          | 15-20                |
| 8. Stem rust (bluegrass)                 | 7-14 days               | 10-15          | 15-20                |
| 9. DICHONDRA Leaf spot (California only) | 7-14 days               | 10-15          | 15-20                |

\*Diseases listed are caused by fungi, some of which are named as follows:

- 1 Dollar spot Sclerotinia homeocarpa, Lanzia or Moellerodiscus spp.
- 2 Brown patch Rhizoctonia solani, R. zeae, R. cerealis

3. Leaf spots, Melting-out, Brown blight: Drechslera spp. (including D. poae, D. siccans), Bipolaris sorokiniana, Curvularia spp.
4. Gray leaf spot: Pyricularia grisea, P. oryzae
5. Red thread: Laetisaria fuciformis
6. Anthracnose: Colletotrichum graminicola
7. Copper spot: Gloeocercospora sorghi
8. Stem rust: Puccinia graminis
9. Dichondra leaf spot: Alternaria spp.

Gray snow mold caused by Typhula spp. - Apply in sufficient water to obtain adequate coverage (90 to 450 gallons per acre). Apply 13.6 to 27.2 pounds of DACONIL SDG per acre of turf area. Application must be made before snow cover in autumn. Use the higher rate if turf layer remains frozen prior to snow cover. If snow cover is intermittent or lacking during the winter, re-apply DACONIL SDG at 13.6 pounds per acre at monthly intervals until gray snow mold conditions no longer prevail. In areas where pink snow mold (Geriachia or Fusarium patch) is likely to occur, apply DACONIL SDG at 13.6 pounds per acre in combination with products containing either benomyl at 44 ounces active ingredient per acre, or iprodione at 88 ounces active ingredient per acre of turf area. Read and observe all label directions for products containing these active ingredients.

**Fusarium (Geriachia) Patch:** For control of Fusarium patch only in areas where snow cover is intermittent or lacking during the winter, apply 13.6 to 24 pounds of DACONIL SDG per acre of turf area. Begin applications in late autumn and re-apply at 21 to 28 day intervals until conditions favorable for Fusarium patch no longer prevail.

**Algal Scum:** For prevention of algal scum on turfgrasses caused by cyanobacteria of the genus Lyngbia, apply DACONIL SDG at the rate of 5 to 10 pounds per acre on a 7 to 14 day schedule. Under severe scum conditions use the high rate and apply on a 7 day schedule. When algal scum is well established, every attempt should be made to dry out the afflicted area. Once dry, spiking or verticutting should be done to enhance turfgrass recovery in conjunction with DACONIL SDG applications at the rate of 10 to 20 pounds per acre on a 7 to 14 day schedule. Several applications of DACONIL SDG at the high rate may be necessary for turfgrass recovery. Only a preventive spray program with DACONIL SDG will prevent a recurrence of the algae when environmental conditions are favorable for algal growth.

#### Ornamental Plants:

Apply DACONIL SDG at a rate of 1.4 pounds per 100 gallons of water unless other directions are given in the tables below. Apply in a spray to run-off, when conditions are favorable for disease development. Repeat applications at 7 to 14 day intervals until conditions are not longer favorable. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, apply DACONIL SDG at 7 day intervals. DACONIL SDG should be applied to plants when both foliage and flowers are dry, or nearly dry.

DO NOT combine DACONIL SDG in the spray tank with pesticides, surfactants or fertilizers, unless your prior use has shown the combination to be physically compatible, effective and noninjurious under your conditions of use.

DACONIL SDG may be used in greenhouses. ~~Applicators and attending personnel should wear protective clothing including long sleeves, gloves, goggles or eye shield plus a face-fitting respirator specifically designed to remove organic pesticide vapors and particulates.~~ DO NOT use mistblowers or high pressure spray equipment when making applications of DACONIL SDG in greenhouses.

Use of DACONIL SDG is recommended for control of fungal diseases referred to by numbers in parentheses following each ornamental. Ornamentals listed on this label have been tested and found to tolerate applications of DACONIL SDG at the recommended rates. The user should test for possible phytotoxic responses, using recommended rates on ornamental plants on a small area prior to commercial use. Applications made during bloom may damage flowers and/or fruits.

Fruits and other structures which may be borne on treated plants **MUST NOT BE EATEN.**

### Ornamentals Recommended for Treatment With DACONIL SDG

#### BROADLEAF SHRUBS AND TREES

|                            |                            |
|----------------------------|----------------------------|
| Andromeda (Pieris) (4)     | Holly (1)                  |
| Ash (Fraxinus) (1)         | Lilac (5)                  |
| Aspen (1)                  | Magnolia (1)               |
| Azalea (1,2,4)             | Maple (1)                  |
| Buckeye, Horsechestnut (1) | Mountain Laurel (1)        |
| Cherry-Laurel (1)          | Oak (red group only) (1,7) |
| Crabapple (1,6,8)          | Oregon-Grape (Mahonia) (6) |
| Dogwood (1)                | Photinia (1)               |
| Eucalyptus (3)             | Poplar (1)                 |
| Euonymus (1)               | Privet (Ligustrum) (1)     |
| Firethorn (Pyracantha) (1) | Rhododendron (1,2,4)       |
| Flowering Almond (1,2)     | Sand Cherry (1,2)          |
| Flowering Cherry (1,2)     | Sequoia (1)                |
| Flowering Peach (1,2)      | Spiraea (1)                |
| Flowering Plum (1,2)       | Sycamore, Planetree (1)    |
| Flowering Quince (1,2)     | Viburnum (5)               |
| Hawthorn (1,6)             | Walnut (Juglans) (1)       |

#### FLOWERING PLANTS<sup>a/</sup> and BULBS

|                                |                   |
|--------------------------------|-------------------|
| Arabian Violet (2)             | Iris (1,2)        |
| Begonia (1)                    | Lily (1)          |
| Camellia (2)                   | Marigold (1)      |
| Carnation (1,2)                | Narcissus (1)     |
| Chrysanthemum (1,2)            | Pansy (1)         |
| Crocus (1)                     | Petunia (1,4)     |
| Daffodil (1)                   | Phlox (1)         |
| Daisy (1)                      | Poinsettia b/ (1) |
| Geranium (1,6)                 | Rose c/ (1)       |
| Gladiolus (1,2)                | Statice (1)       |
| Hollyhock (6)                  | Tulip (1)         |
| Hydrangea (foliage only) (1,6) | Zinnia (1,5)      |

a/ Avoid applications during bloom period on plants where flower injury is unacceptable

b / Discontinue applications prior to bract formation; phytotoxicity is possible on the bracts.

c / Use 1 pound per 100 gallons of water.

#### **FOLIAGE PLANTS**

- Aglaonema (1)
- Areca palm (1)
- Artemesia (1)
- Boston fern (1)
- Dracaena (1)
- Dumbcane (Diffenbachia) (1)
- Fatsia (Aralia) (1)
- Ficus (1)
- Florida Ruffle Fern (1)
- Leatherleaf Fern (1)
- Lipstick plant (1)
- Ming aralia (1)
- Oyster plant (Rhoeo) (1)
- Pachysandra d/(1)
- Parlor palm  
(Chamaedorea) (1)
- Peperomia (1)
- Philodendron (1,4)
- Prayer plant (Maranta) (1)
- Syngonium (1)
- Zebra plant (Aphelandra) (1)

d / Use 2.5 pounds of DACONIL SDG per 100 gallons of water.

#### **Diseases Controlled with DACONIL SDG**

##### **1. Leafspots/Foliar Blights:**

- Actinopelte leafspot
- Fusarium leafspot
- Alternaria leafspot/  
leaf blight
- Gloeosporium black leafspot
- Anthraxnose  
leaf blotch, spot
- Ink spot (Drechslera)
- Anthraxnose  
(Discula) blight
- Marssonina leafspot
- Ascochyta blight
- Monilinia blossom blight, twig blight



Bipolaris (Helminthosporium) leafspot  
 Mycosphaerella ray blight  
 Botrytis leafspot, leaf blight  
 Myrothecium leafspot, brown rot  
 Cephalosporium leafspot  
 Nematostoma leaf blight  
 Cercospora leafspot  
 Phyllosticta leafspot  
 Cercosporidium leafspot  
 Ramularia leafspot  
 Corynespora leafspot  
 Rhizoctonia web blight  
 Coryneum blight (shothole)  
 Septoria leafspot  
 Curvularia leafspot  
 Sphaeropsis leafspot  
 Cyindrosporium leafspot  
 Stagonospora leaf scorch  
 Dactylaria leafspot  
 Tan leafspot (Curvularia)  
 Didymellina leafspot  
 Volutella leaf blight  
 Drechslera leafspot  
 Fabraea (Entomosporium) leafspot

**2. Flower spots/blights:**

Botrytis flower spot,  
 flower blight  
 Curvularia flower spot  
 Monilinia blossom blight  
 Ovulinia flower blight  
 Rhizopus blossom blight  
 Sclerotinia flower blight

**3. Cylindrocladium stem canker**

**4. Phytophthora leaf blight, dieback**

**5. Powdery mildews:**

Erysiphe cichoracearum                      Microsphaera spp.

**6. Rusts:**

Gymnosporangium spp.                      Puccinia spp.  
 Pucciniastrum hydrangeae

**7. Taphrina blister**

**8. Scab (Venturia inaequalis)**

The following ornamental plant species which have been tested with DICONIL SDG at recommended rates did not exhibit phytotoxicity:

| <b>Botanical Name</b>                      | <b>Common Name</b>        |
|--|---------------------------|
| <i>Aechmea fasciata</i>                    | Aechmea                   |
| <i>Araucaria heterophylla</i>              | Norfolk Island Pine       |
| <i>Asplenium nidus</i>                     | Birdnest Fern             |
| <i>Bougainvillea</i> spp.                  | Bougainvillea             |
| <i>Caladium</i> spp.                       | Caladium                  |
| <i>Calathea makoyana</i>                   | Peacock plant             |
| <i>Calistephus chinensis</i>               | Aster                     |
| <i>Carissa grandiflora</i>                 | Natal plum                |
| <i>Clerodendron thomsonae</i>              | Bleeding Heart            |
| <i>Codiaeum</i> spp.                       | Croton                    |
| <i>Cordyline terminalis</i>                | Ti Plant                  |
| <i>Crassula argentea</i>                   | Jade Plant                |
| <i>Cyrtomium falcatum</i>                  | Holly Leaf Fern           |
| <i>Dionaea muscipula</i>                   | Venus Fly Trap            |
| <i>Dizygotheca elegantissima</i>           | False Aralia              |
| <i>Epipremnum aureum</i>                   | Golden Pothos, Scindapsus |
| <i>Episcia cupreata</i>                    | Flame Violet              |
| <i>Fittonia</i> spp.                       | Silver-nerve Plant        |
| <i>Gerbera jamesonii</i>                   | Gerbera Daisy             |
| <i>Gynura sarmentosa</i>                   | Purple Passion Vine       |
| <i>Gypsophila paniculata</i>               | Baby's Breath             |
| <i>Hoya</i> spp.                           | Wax Plant                 |
| <i>Ilex cornuta</i>                        | Chinese Holly             |
| <i>Ilex crenata</i>                        | Japanese Holly            |
| <i>Impatiens</i> spp.                      | Impatiens                 |
| <i>Pilea cadierei</i>                      | Aluminum Plant            |
| <i>Platynerium</i> spp.                    | Staghorn Fern             |
| <i>Sansevieria trifasciata</i><br>"Hahnii" | Birdsnest Sansevieria     |
| <i>Tolmeia menziesii</i>                   | Piggy-back Plant          |
| <i>Yucca elephantipes</i>                  | Spineless Yucca           |
| <i>Zygocactus truncatus</i>                | Christmas Cactus          |

**NOTE:** DO NOT apply DICONIL SDG to either green or variegated *Pittosporum* or to *Schefflera*, as multiple applications have been demonstrated to cause phytotoxic responses.

**CONIFERS:** Apply DAPONIL SDG in sufficient water and with proper calibration to obtain uniform coverage of tree canopy. Application with ground equipment is preferable to aerial application because ground applications generally give better coverage of the tree canopy. If application with ground equipment is not feasible, DAPONIL SDG may be applied with aircraft using at least 20 gallons per acre. When concentrate sprays are used or when treating non-bearing or immature trees, the lower rate of DAPONIL SDG listed may be used. DO NOT allow livestock to graze in treated areas. The following spray volumes are recommended as gallons of spray per acre:

|                 | <u>Dilute</u> | <u>Concentrate</u>                      |
|-----------------|---------------|---|
| Forest stands   | Not used      | 10 to 20 (aircraft)                     |
| Christmas trees | 100           | 10 to 50 (aircraft or ground equipment) |
| Nursery beds    | 100           | 5 to 10 (ground equipment only)         |

| DISEASES CONTROLLED  | DAAPONIL SDG<br>ACRE | Rate Per<br>100 GAL* | APPLICATION DIRECTIONS   |
|--|----------------------|----------------------|--|
| Swiss needlecast   | 2.5 to<br>5.0 lb     | 2.5 to<br>5.0 lb     | Single application technique: In Christmas tree plantations or forest stands make one application in the spring when new shoot growth is 1/2 to 2 inches in length.  |
| Sclerotinia canker (pines),<br>Swiss needlecast (Douglas-fir)        | 1.25 to<br>2.5 lb    | 1.25 to<br>2.5 lb    | Make the first application in spring when new shoot growth is 1/2 to 2 inches in length. Make additional applications at 3 to 4 week intervals until conditions no longer favor disease development. For use in nursery beds, apply the highest rate specified on a 3 week schedule. |
| Sirococcus tip blight  | 1.8 to<br>3.2 lb     | 1.8 to<br>3.2 lb     |  |
| Rhizosphaera needlecast (spruces),<br>Sclerotinia brown spot (pines) | 5.0 lb               | 5.0 lb               |  |

| DISEASES CONTROLLED                                 | DACONIL SDG Rate Per<br>ACRE 100 GAL* |                  | APPLICATION DIRECTIONS  |
|---|---------------------------------------|------------------|---|
| Cyclaneusma and<br>Lophodermium needlecasts (pines) | 2.5 to<br>5.0 lb                      | 2.5 to<br>5.0 lb | Apply in early spring prior to budbreak. Repeat applications at approximately 6 to 8 week intervals, until spore release ceases in late fall. Apply monthly during periods of frequent rainfall, and where Lophodermium infections occur during dormancy (Pacific Northwest). During drought periods, applications may be suspended, then resumed upon next occurrence of needle wetness. |
| Rhabdocline needlecast (Douglas-fir)                | 1.4 to<br>2.5 lb                      | 1.4 to<br>2.5 lb | Apply at budbreak and repeat at 3 to 4 week intervals until needles are fully elongated and conditions no longer favor disease development. In plantations of mixed provenance, or when irregular budbreak occurs, apply weekly until all trees have broken bud, then every 3 to 4 weeks as specified above. In nursery beds, use the high rate on a 3 week schedule.                     |
| Botrytis seedling blight<br>Phoma twig blight       | 1.4 to<br>2.5 lb                      | 1.4 to<br>2.5 lb | Begin applications in nursery beds when seedlings are 4 inches tall and when cool, moist conditions favor disease development. Make additional applications at 7 to 14 day intervals as long as disease favorable conditions persist.   |

\* Volumetric rates to be used only with full dilute spray volume specified on this label.

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## **Application and Calibration Techniques for Sprinkler Irrigation**

Apply this product only through center pivot, motorized lateral move, solid set or portable (wheel move, side roll, end tow, or hand move) irrigation system(s). DO NOT apply this product through any other type of irrigation system. DO NOT use Daconil SDG through sprinkler irrigation equipment on golf courses.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

DO NOT apply this product through irrigation systems connected to a public water system. '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 per year.

Controls for both irrigation water and pesticide injection systems must be functionally interlocked, so as to automatically terminate pesticide injection when the irrigation water pump motor stops. A person knowledgeable of the irrigation system and responsible for its operation shall be present so as to discontinue pesticide injection and make necessary adjustments, should the need arise.

The irrigation water pipeline must be fitted with a functional, automatic, quick-closing check valve to prevent the flow of treated irrigation water back toward the water source. The pipeline must also be fitted with a vacuum relief valve and low pressure drain, located between the irrigation water pump and the check valve, to prevent back-siphoning of treated irrigation water into the water source.

Always inject Daconil SDG into irrigation water after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides into the intake line on the suction side of the pump.

Pesticide injection equipment must be fitted with a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump. Interlock this valve to the power system, so as to prevent fluid from being withdrawn from the chemical supply tank when the irrigation system is either automatically or manually turned off.

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 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.

Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur. Do not apply when wind speed favors drift beyond the area intended for treatment.

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted

prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2-1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

*This sign is in addition to any sign posted to comply with the Worker Protection Standard.*

DACONIL SDG may be used through two basic types of sprinkler irrigation systems as outlined in Sections A and B below. Determine which type of system is in place, then refer to the appropriate directions provided for each type.

#### **A. Center Pivot, Motorized Lateral Move and Traveling Gun Irrigation Equipment**

For injection of pesticides, these continuously moving systems must use a positive displacement injection pump, of either diaphragm or piston type, constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock and capable of injection at pressures approximately 2-3 times those encountered within the irrigation water line. Venturi applicator units cannot be used on these systems.

Thoroughly mix recommended amount of DACTONIL SDG for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply tank must be continuously agitated during the injection run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until DACTONIL SDG has been cleared from last sprinkler head.

#### **B. Solid Set and Portable (Wheel Move, Side Roll, End Tow, or Hand Move) Irrigation Equipment**

With stationary systems, an effectively designed in-line venturi applicator unit is preferred which is constructed of materials that are compatible with pesticides; however, a positive-displacement pump can also be used.

Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of DACTONIL SDG for acreage to be covered with water so that the total mixture of DACTONIL SDG plus water in the injection tank is equal to the quantity of water used during calibration, and operate entire system at normal pressures recommended by the manufacturer of injection equipment used, for amount of time established during calibration. Agitation is recommended. DACTONIL SDG can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until DACTONIL SDG has been cleared from last sprinkler head.

### **STORAGE AND DISPOSAL**

DO NOT contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**Storage:** Store in a dry place.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** 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.

## **WARRANTY AND LIMITATION OF DAMAGES**

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO. In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.