

SEP 15 1994

Mr. Richard A. Perotti
Scotts-Sierra Crop Protection Co.
1001 Yosemite Drive
Malpitas, CA 95035

Dear Mr. Perotti:

Subject: Duosan WSB Wettable Powder Fungicide
EPA Reg. No. 58185-31
Duosan WP Fungicide
EPA Reg. No. 58185-32
Your Submissions of August 5, 1994

The amendments referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), are acceptable provided that you:

1. Submit and/or cite all data required for registration or reregistration of your product under FIFRA sec. 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling change listed below at the next label printing:

Under Direction for Use, delete "If this product is used on a crop, no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season". Statements relating to the use of different EBDC active ingredients have recently been changed. The revised statements as well as the statement currently on the label are only required for products containing agricultural crop uses.

2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

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Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,



Leonard S. Cole, Jr.
Acting Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosures

7505C:C.Grable:cg:9/15/94

- REPLACEMENT LABELING -

ACCEPTED
with COMMENTS
in EPA Letter Dated
SEP 15 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
58185-32

DUOSAN®
BROAD SPECTRUM
SYSTEMIC-CONTACT TURF FUNGICIDE

ACTIVE INGREDIENTS:

Thiophanate-methyl (Dimethyl[(1, 2-phenylene) bis (iminocarbonothioyl)] bis [carbamate])..... 15.6%
A combination product of zinc ion and manganese ethylenebis dithiocarbamate 64.0%

in which the ingredients are:

Manganese(Mn)++	12.8%	
Zinc (Zn)++.....	1.6%	
Ethylenebis dithiocarbamate	49.6%	
INERT INGREDIENTS		20.4%
	Total	100%

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

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

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. **OBTAIN MEDICAL ATTENTION IMMEDIATELY.**

IF INHALED: Induce coughing.
IF ON SKIN: Wash off with soap and water.
IF IN EYES: Flush eyes with water.

EPA EST. NO. 228-IL-1

EPA REG. NO. 58185-32

NET WEIGHT: 3 LB (1.35 kg)



Scotts-Sierra Crop Protection Company
14111 Scottslawn Road, Marysville, OH 43041

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**

WARNING! Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. Harmful if swallowed or inhaled. Avoid breathing dust or spray mist. **Repeated or prolonged exposure may cause allergic skin reaction in certain individuals.** Do not contaminate feed or food.

Personal Protective Equipment

Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear
- Chemical-resistant apron when cleaning equipment, mixing, or loading

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.

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 PRODUCT IS TOXIC TO FISH. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL OR CHEMICAL HAZARDS

Keep away from fire or sparks. Do not use or store near heat or open flames

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. If this product is used on a crop, no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season.

Do not apply this product through any type of irrigation system.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 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 over long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

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

- Keep children and pets off treated area until dry or material has washed into soil.
- Do not enter treated areas without protective clothing until sprays have dried.

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**FOR PROFESSIONAL USE ONLY
NOT FOR HOMEOWNER USE ON TURF.**

Add recommended amount to a partially filled spray tank under agitation. Complete filling to the desired volume. Keep agitated to insure even suspension of material. Make fresh daily. Spray uniformly over the area with a boom-type or other power sprayer.

TURF

Apply after mowing or avoid mowing for 12 hours after application. Apply in sufficient water to obtain thorough coverage, usually 5 gal. per 1000 sq. ft. of turf area. Always treat aprons and approaches to golf greens. Under conditions of severe disease, apply every 5 to 7 days. Note to users: Do not apply to areas likely to be grazed by livestock and do not feed clippings to livestock or poultry.

Use on all golf course greens, tees, lawn and fairways of Bentgrasses, Bluegrasses, Fescues, Bermudagrasses, Ryegrasses, St. Augustine grass or their mixtures for the prevention and control of the following diseases:

DOLLAR SPOT *Sclerotinia homeocarpa* Apply at 3 oz. per 1000 sq. ft. beginning when the disease first appears and continue at 10-14 day intervals as needed. Re-treat at 5-7 day intervals under severe conditions.

ANTHRACNOSE *Colletotrichum graminicola*
BROWN PATCH *Rhizoctonia solani*
GREY LEAF SPOT *Pyricularia grisea*
LEAF SPOTS *Helminthosporium* spp.
COPPER SPOT *Gloeocercospora sorghi*
FUSARIUM PATCH *Fusarium nivale*
RED THREAD *Curvularia jocosiforme*
RUST *Puccinia coronata*

Apply at 4-6 oz. per 1000 sq. ft. when disease appears and continue at 10-14 day intervals. Use at 5-7 day intervals for severe disease.

**HORTICULTURAL, LANDSCAPE
AND NURSERY PLANTS**

While disease is prevalent, spray foliage with a suspension, containing 1.5 lb. per 100 gal. of water at weekly intervals, unless otherwise specified.

* For Flower Blight (Ovulinia) on azaleas and rhododendrons, 1 lb. per 100 gal. on a 4 to 6 day interval is recommended. For Gymnosporangium on Crabapple, use 2 lb. per 100 gal. at 2-week intervals. For Phomopsis on Juniper, use 3 lb. per 100 gal. at 7 to 10 day intervals.

Use on horticultural, landscape and nursery plants for prevention and control of the following diseases in the greenhouse or field:

DISEASE CATEGORY	ORGANISM GENERA
1. ANTHRACNOSE	<i>Colletotrichum, Gloeosporium, Mycosphaerella</i> spp.
2. BLACKSPOT	<i>Diplocarpon rosae</i>
3. FLOWER BLIGHT	<i>Ascochyta, Botrytis, Curvularia, Ovulinia, Sclerotinia</i> spp.
4. LEAF BLIGHT	<i>Alternaria, Aschochyta, Cercospora, Curvularia, Fusarium, Rhizoctonia, Volutella</i> spp.
5. STEM & TWIG BLIGHT	<i>Pestalotia, Phomopsis, Rhizoctonia</i> spp.
6. DOWNY MILDEW	<i>Plasmopara viburni</i>
7. POWDERY MILDEW	<i>Erysiphe cichoracearum, Microsphaera, Podosphaera, Sphaerotheca</i> spp.
8. SCAB	<i>Fusicladium, Venturia, Sphaceloma</i> spp.
9. RUST	<i>Gymnosporangium juniperi-virginianae</i>

NOTE: For LEAF SPOT, see LEAF BLIGHT

The following plants are subject to the diseases indicated (by number) and tolerate DUOSAN® at normal rates of application:

WOODY	HERBACEOUS	
Aralia (1,4)	African Marigold (3)	Philodendron (4)
Azalea (3,4)*	Aphelandra (4)	Phlox (4,7)
Brassia (1,4,5)	Aster (3)	Snapdragon (3)
Camellia (3)	Begonia (3,4)	Spathiphyllum (4,5)
Cherry Laurel (4)	Carnation (4)	Stocks (3,7)
Crabapple (7,9)*	Cissus (4,5)	Strelitzia (1)
Crape Myrtle (7)	Chrysanthemum (1,3)	Verbena (3,4)
Dogwood (1)	Dahlia (3)	Vinca (4)
Dracaena (4,5)	Dieffenbachia (4)	Zinnia (4,7)
Fatsia (4)	Epipremnum (4)	
Hawthorn (7,9)*	Geranium (3)	
Juniper (5,9)*	Impatiens (3)	
Lilac (7)	Kalanchoe (3,7)	
Photinia (4)	Liriope (4,7)	
Poinsettia (3,4,8)	Mondo Grass (1)	
Pyracantha (8)	Pachysandra (4)	
Rhododendron (3)*	Pansy (1)	
Rose (2,3,7)	Pellea (4)	
Viburnum (6)	Petunia (3)	

* See special instructions. Do not use on French Marigold or Gioxinia.

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STORAGE AND DISPOSAL

STORAGE: Do not store at a temperature exceeding 122°F (50°C). Store in a dry place in a well-closed container. Do not allow to become wet or overheated in storage. This may cause chemical changes which will impair the fungicidal effectiveness of DUOSAN® and may also generate flammable vapors.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

CONTAINER DISPOSAL: Completely empty container(s) by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of containers(s) in a sanitary landfill or by incineration, if allowed by State and local authorities.

IMPORTANT NOTICE: DISCLAIMER AND LIMITATION OF LIABILITY

This product has been researched to provide necessary data to support its uses listed on the label. The user should always follow the label directions and exercise his judgment and caution when using the product under his growing conditions.

NO WARRANTY OR REPRESENTATION IS MADE, EXPRESS, OR IMPLIED, CONCERNING THE RESULTS TO BE OBTAINED FROM THE USE OF THIS PRODUCT IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. The exclusive remedy of the user or Buyer, and the limit of liability of either The Scotts Company or Scotts-Sierra Crop Protection Company or any other Seller, for any and all losses, injuries or damages resulting from the use of handling of this product shall be the purchase price paid by the user or Buyer for the quantity of this product involved. The Buyer and users are deemed to have accepted the terms of this Notice, which may be varied only by agreement in writing, signed by a duly authorized representative of either The Scotts Company or Scotts-Sierra Crop Protection Company.

Scotts-Sierra Crop Protection Company
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DUOSAN® is a registered trademark of Scotts-Sierra Crop Protection Company for its brand of Fungicide products.

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