


PM 21 58185-32 3442058/160 1075  
 18

	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460	EPA Reg. Number: 58185-32	Date of Issuance: AUG 4 1993
	NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration  <small>(under FIFRA, as amended)</small>	Term of Issuance: Conditional	
		Name of Pesticide Product: Duosan Broad Spectrum Systemic Contact Turf Fungicide	
Name and Address of Registrant (include ZIP Code): Grace-Sierra Crop Protection Company 1001 Yosemite Drive Milpitas, CA 95035			
<small>Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</small>			
<small>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</small>			
<small>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</small>			
<p style="text-align: center;">This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> <li>Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.</li> <li>Revise the label by adding the phrase "EPA Registration No. 58185-32".</li> <li>On page two of the label, under the heading "For All Uses (Except Sodfarms and Commercial Nurseries), remove the second sentence beginning "If this product is used..." and relocate it to an area of the label that addresses all uses, including sodfarms and commercial nursery uses.</li> <li>Note that this acceptance of your label does not relieve you of your obligation to comply with the Worker Protection Standard (WPS). If any of your products are covered by the WPS,</li> </ol>			
H7505C:J.Fairfax:58185-32:7/29/93			
Signature of Approving Official: <i>caj</i>		Date: AUG 4 1993	

2075

you are required to submit, and receive the Agency's approval by April 21, 1994, of a revised label reflecting the required label statements of 40 CFR 156, published in the FEDERAL REGISTER on August 21, 1992 (57 FR 38102). Further guidance will be issued. According to 40 CFR 156, subpart K, specifically §156.200(c)(3): "No product to which this subpart applies shall be distributed or sold without amended labeling by any registrant after April 21, 1994." Should you have questions regarding the WPS, please call 1-800-777-2185.

5. Submit five copies of the final printed label for the record.

6. You must submit product specific chemistry data and acute toxicity data within eight (8) months of the issuance of this registration.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

**ACTIVE INGREDIENTS:**

Thiophanate-methyl (Dimethyl [(1, 2-phenylene) bis (iminocarbonothioyl)]bis (carbamate)) ..	15.6%
A coordination 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%
<b>INERT INGREDIENTS:</b> .....	20.4%
<b>TOTAL</b> .....	<b>100%</b>

**KEEP OUT OF REACH OF CHILDREN  
WARNING**

**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.

**SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

**EPA EST. NO.**

**EPA REG. NO. 58185-**

**3 LB. (1.35 Kg)**

**BEST AVAILABLE COPY**

**GRACE SIERRA** CROP PROTECTION COMPANY  
1001 Yosemite Drive, Milpitas, CA 95035

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:**

**AUG 04 1993**

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

**58185-32**

**HANDLE THIS PRODUCT ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT:** All agricultural workers/handlers (i.e., mixers, loaders, and applicators) applying EBDC's must wear coveralls over long-sleeved shirt and long pants; shoes, socks and chemical-resistant gloves. During mixing and loading, a chemical-resistant apron and goggles or a face shield must also be worn.

**IMPORTANT!** Before removing gloves, wash them with soap and water. Always wash hands, face and arms with soap and water before eating, smoking or drinking. Always wash hands and arms with soap and water before using the toilet.

**FOR ALL USES (Except Sodfarms and Commercial Nurseries)**

Do not enter treated areas without protective clothing until sprays have dried. 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.

**FOR SODFARMS AND COMMERCIAL NURSERIES**

Do not enter or allow entry into treated area until 24 hours after application unless wearing the personal protective equipment listed on this label.

**ENVIRONMENTAL HAZARDS**

**THIS PRODUCT IS TOXIC TO FISH.** Do not apply directly to water. 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.**

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

**FOR PROFESSIONAL USE ONLY**

Not for homeowner use on turf.

**BEST AVAILABLE COPY**

Add recommended amount to a partially filled spray tank or irrigation system. 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 golf course greens, tees, lawn and fairways of Bentgrasses, Bluegrasses, Fescues, Bermuda-grasses, 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*.

**COPPER SPOT** *Gloeocarpocpora sorghi*.

**FUSARIUM PATCH** *Fusarium nivale*.

**GREY LEAF SPOT** *Pyricularia grisea*.

**LEAF SPOTS** *Helminthosporium* spp.

**RED THREAD** *Corticium fusiforme*.

**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 & NURSERY CROPS

5095

White 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 and nursery crops for prevention and control of the following diseases in the greenhouse or field:

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

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 (4)	Mondo Grass (1)	
Pyracantha (8)	Pachysandra (4)	
Rhododendron (3)*	Pansy (1)	
Rose (2,3,7)	Pellea (4)	
Viburnum (6)	Petunia (3)	

**BEST AVAILABLE COPY**

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

### 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 bag by shaking and tapping sides and bottom, to loosen clinging particles. Empty residue into applicator equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities.

### WARRANTY

This material conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil or potting medium, the disease problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of the product are beyond the control of the seller. Buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herewith. NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY IS MADE.

Duosan® is a registered trademark of Green-Sun Crop Protection Company for its brand of Fungicide products.