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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
58185-31

Date of Issuance:
AUG 4 1993

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance: Conditional

(under FIFRA, as amended)

Name of Pesticide Product: DUOSAN
WSB Wettable Powder
Turf and Ornamental
Fungicide

Name and Address of Registrant (include ZIP Code):

Grace-Sierra Crop Protection Company
1001 Yosemite Drive
Milpitas, CA 95035

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.

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.

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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. 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.

2. Revise the label by adding the phrase "EPA Registration No. 58185-31".

3. 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.

4. 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,

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Signature of Approving Official:

Date:

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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 28102). 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.

Wettable Powder Turf and Ornamental Fungicide in Water Soluble Bags

ACTIVE INGREDIENTS:

Thiophanate-methyl (Dimethyl [(1, 2-phenylene) bis (iminocarbonothioyl)] bis (carbamate)) ..	15.6%
A coordination product of zinc ion and manganese ethylenecis dithiocarbamate	64.0%
in which the ingredients are:	
Manganese (Mn)--	12.8%
Zinc (Zn)--	1.6%
Ethylenecis dithiocarbamate	49.6%
INERT INGREDIENTS:	20.4%
TOTAL	100%

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.

DO NOT REMOVE PACKAGES FROM CONTAINER EXCEPT FOR IMMEDIATE USE

EPA REG. NO. 58185-

GRACE SIERRA

NETWEIGHT 3 LBS.
(Four 12 oz. Water Soluble Bags)

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.

58185-31

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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 when cleaning of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Keep away from fire or sparks.

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.

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This container contains four DUOBAN WSB water-soluble bags.

Add 2/3 of the required amount of water to the spray or mixing tank. With agitator running, place required amount of unopened water soluble bags into the partially filled sprayer tank or closed-system mix tank. Keep agitator to insure even suspension of material. Make fresh daily. Spray uniformly on the area to be treated with a boom type or other power sprayer.

Do not handle water soluble bags for longer than is required to place into sprayer tank. Do not expose water soluble bags to moisture.

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 greens 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, lawns and fairways of Bentgrass, Bluegrass, Fescue, Bermudagrass, Ryegrass, St. Augustine grass or their mixtures for the prevention and control of the following diseases:

DOLLAR SPOT *Sclerotinia homoeocarpa* Apply at 12 oz. (1 bag) per 4,000 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 *Gaeumannomyces sordii*
PUBERTH PATCH *Puccinia nitida*

LEAF SPOTS *Helminthosporium* spp.
RED THREAD *Cercospora fusiformis*
RUST *Puccinia coronata*
GRAY LEAF SPOT *Pyrenopeziza grisea*

Apply at 24-36 oz. (2-3 bags) per 4,000 sq. ft. when disease appears and continue at 10-14 day intervals. Use at 5-7 day intervals for severe disease

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HORTICULTURAL & NURSERY CROPS

White disease is prevalent, spray foliage with a suspension, containing 24 oz. (2 bags) per 100 gal. of water at weekly intervals, unless others are specified.

*For Flower Blight (Ovulinia) on azaleas and rhododendrons, 12 oz. (1 bag) per 75 gal. on a 4 to 6 day interval is recommended. For Gymnosporangium on Crabapple, use 24 oz. (2 bags) per 75 gal. at 2-week intervals. For Phomopsis on Juniper, use 36 oz. (3 bags) per 75 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, Mycoasphaerella spp.
2. BLACKSPOT	Diplocarpon rosae
3. FLOWER BLIGHT	Aecochyia, Botrytis, Curvularia, Ovulinia, Sclerotinia spp.
4. LEAF BLIGHT	Alternaria, Aecochyia, Cercospora, Curvularia, Fusarium, Rhizoctonia, Volvutella spp.
5. STEM & TWIG BLIGHT	Pestalotia, Phomopsis, Rhizoctonia spp.
6. DOWNY MILDEW	Plectospora viburni
7. POWDERY MILDEW	Erysiphe cichoracearum, Microsphaera, Podosphaera, and Sphaerotheca spp.
8. SCAB	Fusicladium and Venturia spp.
9. RUST	Gymnosporangium juniperivirginianae

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
Azalea (1,4)	African Marigold (3)
Azalea (3,4)*	Aphelandra (4)
Brassia (1,4,5)	Aster (3)
Camellia (3)	Begonia (3,4)
Cherry Laurel (4)	Carnation (4)
Crabapple (7,9)*	Cissus(4,5)
Crape Myrtle (7)	Chrysanthemum (1,3)
Dogwood (1)	Dahlia (3)
Dracaena (4,5)	Dieffenbachia (4)
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)	Peltea (4)
Viburnum (6)	Petunia (3)
	Philodendron (4)
	Phlox (4,7)
	Snapdragon (3)
	Spathiphyllum (4,5)
	Stocks (3,7)
	Streptocarpus (1)
	Verbena (3,4)
	Vinca (4)
	Zinnia (4,7)

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

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. Handle container carefully when stored at temperatures of less than 50°F to avoid breakage of inner water soluble bags.

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE DISPOSAL: Pesticide spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

CONTAINER DISPOSAL: Do not reuse container. Dispose of empty container in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY

This material conforms to the description on the label and is reasonably fit for the purpose referred to in the directions for use. Timing and method of application, weather, season, practices, nature of soil or planting medium, the disease problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this 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 hereon. NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY IS MADE. Duosan is a registered trademark of Grace-Serra Horticultural Products Co.

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