

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

APR 1 1994

John A. Francis, Jr.
Grace-Sierra
P.O. Box 4003
1001 Yosemite Drive
Milpitas, CA 95035-2003

Dear Mr. Francis:

Subject: Label Amendment
Duosan WSB
EPA Registration Number 58185-31
Your Submission Dated September 17, 1993

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Please submit three (3) copies of final printed labeling for our records.

This acceptance of your label does not relieve you of any obligation to comply with the Worker Protection Standard (WPS). Under the WPS labeling regulations at 40 CFR part 156, subpart K, § 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency.

Sincerely Yours,

Steve Robbins *SR*
Acting Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

CONCURRENCES

SYMBOL	7505C						
SURNAME	Robbins						
DATE	4/11/94						

Duosan WSB

**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 ethylenebis dithiocarbamate 64.0%

in which the ingredients are:

Manganese (Mn) **12.8%
Zinc (Zn) ** 1.6%
Ethylenebis dithiocarbamate49.6%

INERT INGREDIENTS: 20.4%
TOTAL100.0%

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. 602-MO-1

DO NOT REMOVE PACKAGES FROM CONTAINER EXCEPT FOR IMMEDIATE USE

EPA REG. NO. 5818

GRACE SIERRA

NET WEIGHT 3
(Four 12 oz. Water Soluble)

BEST

**PRECAUTIONS
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. Wash thoroughly with soap and water after handling. Wash contaminated clothing before reuse. Always wear protective clothing and respirator when mixing and applying pesticides. Do not contaminate feed or food. Keep children and pets off treated area until dry or material has washed into the soil.

PERSONAL PROTECTIVE EQUIPMENT — For Mixers, Loaders, Applicators and Early Re-entry Workers. **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 shirts 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.

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. 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.

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 when disposing 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.

This canister contains four DUOSAN 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 agitated to insure even suspension of material. Make fresh daily. Spray uniformly over 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 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, lawns 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 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 *Gloeosporangium pergrati*.

FUSARIUM PATCH *Fusarium nivale*.

Apply at 24-36 oz. (2-3 bags) per 6,000 sq. ft. when disease appears and continue at 10-14 day intervals. Use at 5-7 day intervals for severe disease.

LEAF SPOTS *Helmintosporium* spp.

RED THREAD *Corticium fusiforme*.

RUST *Puccinia coronata*.

GRAY LEAF SPOT *Pyricularia grisea*.

— HORTICULTURAL & NURSERY CROPS —

When disease is present, spray foliage with a suspension, containing 24 oz. (2 bags) per 100 gal. of water at weekly intervals, unless otherwise specified.

*For Flower Blight (Owlitis) 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.

STORAGE AND DISPOSAL

STORAGE: Do not store at a temperature exceeding 122°F (50°C). Store in a dry place in a well-vented 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 80°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 purposes referred to in the directions for use. Timing and method of application, weather, watering 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 and 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 Green-Save Horticultural Products Co.

— Use on horticultural and nursery crops for prevention and control of the following diseases —
— in the greenhouse or —

DISEASE CATEGORY	ORGANISM GENERA
1. ANTHRACNOSE	Colletotrichum, Gloeosporium, Mycoephaerella spp.
2. BLACKSPOT	Diplocarpon roseae
3. FLOWER BLIGHT	Aecochyia, Botrytis, Curvularia, Oculinia, Sclerotinia spp.
4. LEAF BLIGHT	Alternaria, Aecochyia, Cercospora, Curvularia, Fusarium, Rhizoctonia, Volvella spp.
5. STEM & TWIG BLIGHT	Pestalotia, Phomopsis, Rhizoctonia spp.
6. DOWNY MILDEW	Plasmopara viturni
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	
Aralia (1,4)	African Marigold (3)	Philodendron (4)
Azalea (3,4)*	Aphelandra (4)	Phlox (4,7)
Brassela (1,4,5)	Aster (3)	Snapdragon (3)
Camelia (3)	Begonia (3,4)	Spathiphyllum (4,5)
Cherry Laurel (4)	Carnation (4)	Stocks (3,7)
Crabapple (7,9)*	Cleus (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)	Peperomia (4)	
Rhododendron (3)*	Pansy (1)	
Rose (2,3,7)	Palms (4)	
Viburnum (6)	Petunia (3)	

Fusicladium, Venturia and Sphaeloma spp.

(3,4,8)

BEST AVAILABLE COPY

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

HORTICULTURAL, LANDSCAPE AND NURSERY PLANTS

Move down to

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