

PM 21

58185-31

5/29/98

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 29 1998

Chris J. Wible
THE SCOTTS-SIERRA CROP PROTECTION COMPANY
14111 Scottslawn Road
Marysville, Ohio 43041

Subject: Review of Labeling Amendment
Duosan (R) WSB
EPA Reg. No. 58185-31
Your Letter Dated May 12, 1997

Dear Mr. Wible:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments below.

1. Please modify the instructions for dermal exposure in the STATEMENT OF PRACTICAL TREATMENT, to read as follows:

" Wash with plenty of soap and water. Get medical attention."

2. Revise the Precautionary Statement to read as follows: "Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

3. The percentages for the active ingredients located in the ingredient statement should be aligned. Move the "64%" over so that it appears under the 15.6% and above the 20.4% and 100%. The "64%" should appear on the same line as "a coordination product of zinc ion and manganese ethylenebis dithiocarbamate."

4. Correct the spelling of ethylenebis in the ingredient statement. The "l" was omitted.

A copy of the acute toxicity data review and a stamped copy of the label is enclosed for your records. Please submit one (1) copy of your final printed labeling before you release the product for shipment.

CONCURRENCES

SYMBOL	185C						
SURNAME	S. A. G.						
DATE	5/27/98						

If you have any questions, then please contact Summer Gardner-Jenkins of my staff at (703) 308-9353.

Sincerely,

Mary L. Waller

Mary L. Waller
Product Manager, Team 21
Fungicide Branch
Registration Division (7535C)

Enclosure

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ACCEPTED
with COMMENTS
In EPA Letter Dated

5/12/97 VS



MAY 29 1998

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

DUOSAN® WSB

58185-31

Wettable Powder Turf and Ornamental
Fungicide (in Water Soluble Bags)

REC'D EPA/OPP/DPD1

97 MAY 19 15 03

ACTIVE INGREDIENTS:

Thiophanate-methyl (Dimethyl[(1,2-phenylene)bis(iminocarbonothioyl)] bis [carbamate])	64.0%		15.6%
A coordination product of zinc ion and manganese ethylenebis dithiocarbamate			
Manganese(Mn)++		12.8%	
Zinc(Zn)++		1.6%	
Ethylenebis dithiocarbamate		49.6%	
INERT INGREDIENTS			20.4%
		TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN
CAUTION

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).

STATEMENT OF PRACTICAL TREATMENT

If swallowed: induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give any thing by mouth to an unconscious person. **OBTAIN MEDICAL ATTENTION 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 off with soap and water.. Get medical attention if irritation persists.

If in eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

EPA EST NO. TBD

EPA REG NO. 58185-31 Net Weight: 3 LBS. (1.36 Kg)

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

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

CAUTION: Causes eye and skin irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust or spray mist. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT(PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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 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.

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 12 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
- Socks plus shoes

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 material has been 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.

This (resealable) pouch contains 4 Duosan WSB water soluble bags.

Add 2/3 of the requirement amount of water to spray or mixing. With agitator running, place requirement 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, Fescues, Bermuagrasses, Ryegrasses, St. Augustinegrass or their mixture for the prevention and control of the following diseases:

DOLLAR SPOT (*Sclerotinia homeocarpa*) Apply at 12 oz. (1 bag) per 4000 sq ft beginning when disease first appears and continue at 10-14 day intervals as needed. Retreat at 5-7 day intervals under severe conditions.

- | | |
|----------------|-----------------------------------|
| Anthracnose | <i>Colletotrichum graminicola</i> |
| Brown Patch | <i>Rhizoctonia solani</i> |
| Copper Spot | <i>Gloeocercospora sorghi</i> |
| Fusarium Patch | <i>Fusarium nivale</i> |
| Leaf Spots | <i>Helminthosporium spp.</i> |
| Red Thread | <i>Corticium fusiforme</i> |
| Rust | <i>Puccinia coronata</i> |
| Grey Leaf Spot | <i>Pyricularia grisea</i> |

Apply at 24-36 oz. (2-3 bags) per 6000 sq. ft. when disease appears and continue at 10-14 day intervals. Repeat(Use) at 5-7 day intervals for severe disease.

HORTICULTURAL, LANDSCAPE AND NURSURY PLANTS

While disease is prevalent, spray foliage with a suspension, containing 24 oz. (2 bags) per 100 gal. of water at weekly intervals, unless otherwise 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, landscape and nursery plants for the prevention and control of the following diseases in the greenhouse, field or landscape:

<u>DISEASE CATAGORY</u>	<u>ORGANISM GENERA</u>
1. ANTHACNOSE	<i>Colletotrichum, Gloeosporium, Marssonina, Mycosphaerell spp.</i>
2. BLACKSPOT	<i>Diplocarpon rosea</i>
3. FLOWER SPOT & BLIGHT	<i>Alternaria, Ascocyta, Botrytis, Curvularia, Ovulinia, Sclerotinia spp.</i>
4. LEAF SPOT & BLIGHT	<i>Alternaria, Ascocyta, Botrytis, Cercospora, Curvularia, Entomosorium, Fusarium, Rhizoctonia, Septoria, Volutella spp.</i>
5. STEM & TWIG BLIGHT	<i>Pestalonia, Phomopsis, Rhizoctonia spp.</i>
6. DOWNY MILDEW	<i>Plasmopara vitarni</i>
7. POWDERY MILDEW	<i>Erysiphe cichoracearum, Microsphaera, Podospaera, Sphaerotheca spp</i>
8. SCAB	<i>Fusicladium, Venturia Sphaceloma spp.</i>
9. RUST	<i>Gymnosporangium juniperivirginianae</i>

NOTE: For LEAF SPOT, See LEAF BLIGHT

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

WOODY

- Araila(1,4)
- Ash (1)
- Azalea(3,4)*
- Black Walnut(1)
- Brassaia(1,4,5)
- Camellia(3)
- Cherry Laurel(4)
- Crabapple(7,8,9)
- Crape Myrtle(7)
- Dogwood(1,4)
- Dracaena(4,5)
- Euonymous(1)
- Fatsia(4)
- Hawthorn(7,9)
- Juniper(5,9)*
- Lilac(7)
- Maple(1)
- Photinia(4)
- Pittosporium(4)
- Poinsettia(3,4,8)
- Pyracantha(8)
- Rhapiolepis(4)
- Rhododenron(3)*
- Rose(2,3,4,7)
- Sycamore(1)
- Viburnum(6)

HERBACEOUS

- African Marigold(3,4)
- Aphelandra(4)
- Aster(3,4)
- Begonia(3,4)
- Carnation(3,4)
- Cissus(4,5,6)
- Chrysanthemum(1,3,4)
- Dahlia(3,4)
- Dieffenbachia(4)
- Epipremnum(4)
- Geranium(3,4)
- Impatiens(3,4)
- Kalanchoe(3,4,7)
- Liriope(4,7)
- Mondo Grass(1)
- Pachysandra(4)
- Pansy(1,3,4)
- Pellea(4)
- Petunia(3,4)
- Philodendron(4)
- Phlox(4,7)
- Snapdragon(3,4,6)
- Spathiphyllum(,4,5)
- Stocks(3,4,7)
- Strelitzia(1)
- Verbena(3,4)

- Vinca(4)
- Zinnia(3, 4,7)

*See special instructions.

Do not use on French Marigold or Gloxinia.

DO NOT REMOVE FROM CONTAINER EXCEPT FOR IMMEDIATE USE -

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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. 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: Pesticides, 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.

IMPORTANT NOTICE: DISCLAIMER AND LIMITATION OF LIABILITY

This product has been researched to provide necessary data to support its use on turf and ornamentals as described on the label. However, it is understood that tests may not have been carried out on all varieties or cultivars and under all growing conditions on all plants listed on the label. The user should always follow the label directions and exercise his judgment and caution when using this product on a given variety until familiar with the results under his growing conditions.

NO WARRANTY OR REPRESENTATION IS MADE, EXPRESS, OR IMPLIED, CONCERNING THE RESULTS 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 or 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 all 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.

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