

193
ACCEPTED
MAR 12 1990
58185-11



ACTIVE INGREDIENTS:

Thiophanate-methyl (Dimethyl [(1, 2-phenylene) bis (iminocarbonothioyl)] bis [carbamate]) 15%
A coordination product of zinc ion and manganese ethylenebis dithiocarbamate 60%
in which the ingredients are:

Manganese (Mn) + +	12%
Zinc (Zn) + +	1.5%
Ethylenebis dithiocarbamate	46.5%

INERT INGREDIENTS:	25%
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

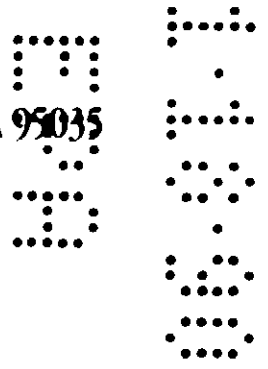
EPA EST. NO. 228-IL-1

EPA REG. NO. 58185-11

6534

3 LB. (1.35 Kg)

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



PRECAUTIONARY STATEMENTS

HAZARDOUS 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.

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.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

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

FOR PROFESSIONAL USE ONLY

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.

TYPICAL

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 <i>Sclerotinia homoeocarpa</i> 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 <i>Colletotrichum graminicola</i> .	LEAF SPOTS <i>Helminthosporium</i> spp.
BROWN PATCH <i>Phaeocephala solani</i> .	RED THREAD <i>Corticium ketiforme</i> .
COPPER SPOT <i>Gloeosporium sorghii</i> .	RUST <i>Puccinia coronata</i> .
FUSARIUM PATCH <i>Fusarium nivale</i> .	

GRAY LEAF SPOT *Piricularia grisea*

At 4-6 oz. per 1000 sq. ft. when disease appears and continue at 10-14 day intervals. Use 1-7 day intervals for severe disease.

HORTICULTURAL & NURSERY CROPS

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

* For **Lower Blight** (*Ovularia*) 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	<i>Colletotrichum</i> , <i>Gloeosporium</i> , <i>Mycoaphysalis</i> spp.
2. BLACKSPOT	<i>Dicranosporium</i>
3. FLOWER BLIGHT	<i>Ascochyta</i> , <i>Botrytis</i> , <i>Curvularia</i> , <i>Oculavia</i> , <i>Sclerotinia</i> spp.
4. LEAF BLIGHT	<i>Alternaria</i> , <i>Ascochyta</i> , <i>Cercospora</i> , <i>Curvularia</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> , <i>Volvariella</i> spp.
5. STEM & TWIG BLIGHT	<i>Pestalotia</i> , <i>Phomopsis</i> , <i>Rhizoctonia</i> spp.
6. DOWNY MILDEW	<i>Plasmopara viticola</i>
7. POWDERY MILDEW	<i>Erysiphe cichoracearum</i> , <i>Microphoma</i> , <i>Podophyllum</i> and <i>Sphaerotheca</i> spp.
8. SCAB	<i>Fusicladium</i> and <i>Venturia</i> spp.
9. RUST	<i>Gymnosporangium juniper-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	HERE ACEOUS
Azalea (1,4)	African Marigold (3)
Bassia (1,4,5)	Aphelandra (4)
Camelia (3)	Aster (3)
Cherry Laurel (4)	Begonia (3,4)
Crabapple (7,9)*	Carnation (4)
Crape Myrtle (7)	Cassia (4,5)
Dogwood (1)	<i>Chrysanthemum</i> (1,3)
Dracaena (4,5)	Dahlia (3)
Fuchsia (4)	Dieffenbachia (4)
Hemlock (7,9)	Euphorbia (4)
Juniper (5,9)*	Gardenia (3)
Laurel (7)	Impatiens (3)
Philadelphus (4)	Kalanchoe (3,7)
Poinsettia (4)	Lilipoa (4,7)
Pyracantha (6)	Mondo Grass (1)
Rhododendron (3)*	<i>Pachysandra</i> (4)
Rose (2,7)	Penny (1)
Yucca (6)	Petunia (4)
	Petalum (3)
	<i>Phlox</i> (4,7)
	<i>Phlox</i> (4,7)
	<i>Sparganium</i> (3)
	<i>Spathiphyllum</i> (4,5)
	Stocks (3,7)
	Streptocarpus (1)
	Verbena (3,4)
	Viola (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.

PRECAUTIONS: 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 application equipment. Then dispose of bags in a sanitary manner 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. There is no warranty of effectiveness, unless otherwise stated. The manufacturer does not warrant that the product will prevent the control of the pest, or that the product will be free from all defects. The manufacturer does not warrant that the product will be free from all defects. The manufacturer does not warrant that the product will be free from all defects. The manufacturer does not warrant that the product will be free from all defects.