

# SysTec 1998<sup>®</sup>

WDG

## Specimen Label

### Systemic Turf and Ornamentals Fungicide 85% Water Dispersible Granule

**ACTIVE INGREDIENTS:**

Thiophante-methyl (dimethyl [(1,2-phenylene)-bis  
(iminocarbonothioyl)] bis [carbamate])\* ..... 85%

**INERT INGREDIENTS:** ..... 15%

**TOTAL** ..... 100%

\*Also known as dimethyl 4,4-o-phenylenebis [3-thioallophanate]

KEEP OUT OF REACH OF CHILDREN  
CAUTION AVISO

#### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person.

**IF IN EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

**IF ON SKIN:** Immediately flush skin with plenty of water. Get medical attention if irritation persists.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

EPA REG. NO. 48234-13

EPA EST. NO. 48234-GA-1

## 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 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 level (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

## GENERAL INFORMATION

SysTec 1998 WDG™ is a highly effective broad spectrum systemic fungicide for disease control. It is for use on golf course, ornamental turfgrasses, and ornamental plants, shrubs and trees. When used according to the directions on this label SysTec 1998 WDG controls a broad spectrum of turf and ornamental diseases both curative and preventative.

Apply SysTec 1998 WDG with ground or aerial equipment, using sufficient volume of spray to provide through coverage. Add required amount of SysTec 1998 WDG to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Continuous agitation is required to keep the material in suspension. Do not tank mix with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules.

Chemigation instructions follow Directions for Use. Do not apply through any irrigation system unless these instructions are followed. **IMPORTANT:** If, after using SysTec 1998 WDG as recommended, treatment is not effective, a tolerant strain of fungi may be present (consult your local Regal representative). Consult your State Agricultural Experiment Station or your State Agriculture Extension Service for advice on the prompt use of some other suitable fungicide.

## TURF

For use on all fine turf applications such as industrial lawns, athletic fields, home lawns (by professional applicators), cemeteries, golf course greens, tees, and fairways of Bentgrasses, Blue Grasses, Bermudagrasses, Fescues, Ryegrasses, St. Augustine grasses or their mixtures. SysTec 1998 WDG is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. SysTec 1998 WDG is to be used for the prevention and control of the below mentioned diseases (provides both curative and protective action).

Use spray mixture the same day it is prepared. Spray uniformly over the area to be treated. Apply after mowing or avoid mowing for twelve hours after application.

Apply recommended amounts in sufficient water to obtain thorough coverage, usually three to five gallons per 1,000 square feet of turf area. When treating golf greens, always treat aprons and approaches. Use the highest recommended rate under conditions of severe disease pressure.

**FUSARIUM BLIGHT** (*Fusarium roseum*), **SUMMER PATCH** (*Magnaporthe poae*), **NECROTIC RING SPOT** (*Leptosphaeria korrae*) - Apply SysTec 1998 WDG at 3 to 6½ ounces per 1,000 square feet. Water into the root zone by irrigating with one inch of water immediately after application. Make two applications at 10 to 14 day intervals, beginning applications when the disease first appears.

**DOLLAR SPOT** (*Sclerotinia homoeocarpa*), **ANTHRACNOSE** (*Colletotrichum graminicola*) - Apply SysTec 1998 WDG at 2/3 to 1½ ounces per 1,000 square feet beginning when the disease first appears. Spray should dry on leaf surfaces with no "watering in". Continue at 10 to 14 day intervals thru the season or as needed.

**LARGE BROWN PATCH** (*Rhizoctonia solani*), **COPPER SPOT** (*Gloeocercospora sorghi*), **RED THREAD** (*Corticium fuciforme*), **FUSARIUM PATCH** (*Fusarium nivale*) - Apply SysTec 1998 WDG at 2/3 to 1 1/3 ounces per 1,000 square feet beginning when the disease first appears and continue at 10 to 14 day intervals through the season or as needed. Spray should dry on leaf surfaces with no "watering in". When conditions are unusually favorable for development of disease, reduce interval to 5 to 7 days.

**STRIPE SMUT** (*Ustilago striiformis*) - Apply SysTec 1998 WDG at 3 to 6 1/2 ounces per 1,000 square feet. Water into the root zone by irrigating with one inch of water immediately after application. Make two applications at 14 to 21 day intervals. Begin applications when the disease first appears, either in the spring or fall.

## ORNAMENTALS ( FIELD and GREENHOUSE)

SysTec 1998 WDG is a broad spectrum systemic fungicide which controls a variety of diseases on woody herbaceous ornamental crops.

SysTec 1998 WDG is also effective as a preplant dip on cutting and bulbs. SysTec 1998 WDG may be used to control the listed diseases on noncommercial bearing, and non-bearing fruit trees, almond, apple, apricot, cherry, nectarine, peach, pecan, plum and prune trees.

## FOLIAR SPRAY

### PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
Anthracnose	woody ornamentals, shade trees <sup>1</sup>
Ascochyta Blight	herbaceous ornamentals
Black spot	Roses
Botrytis (Grey Mold)	woody and herbaceous ornamentals
Cercospora Leaf Spot	woody and herbaceous ornamentals
Corynespora Leaf Spot	ligustrum
Didymellina Leaf Spot	Iris
Diplodea Tip Blight (Diplodea piea)	shade and ornamental trees
Ovulinia	azalea, rhododendron <sup>2</sup>
Entomosporium Leaf Spot	woody and herbaceous ornamentals
Phomopsis Blight	woody and herbaceous ornamentals
Powdery Mildew	woody and herbaceous ornamentals, ornamental nut and fruit trees
Ramularia Leaf Spot	herbaceous ornamentals
Scab	pyracantha, flowering crab, ornamental fruit and nut trees
Septoria Leaf Spots	woody and herbaceous ornamentals

### KEY TO NOTES:

<sup>1</sup> Begin at bud break and make 2 or 3 additional applications at 10 to 14 day intervals.

<sup>2</sup> Begin treatment as flowers open. Addition of a surfactant to the spray mixture improves distribution of the spray on hard-to-wet plants such as roses.

## I. FOLIAR SPRAY-HYDRAULIC APPLICATION

Mixing instructions: Add required amount of SysTec 1998 WDG to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Maintain continuous agitation to keep the material in suspension and apply with properly calibrated spray equipment. Apply until leaves glisten, but not to point of runoff.

Application Rates and Timing for Diseases: Begin applications when disease first appears and repeat at 10 to 14 day intervals, during the growing season. Shorten the interval during humid, rainy weather.

Ground Application: Use 0.3 to 0.8 pounds of SysTec 1998 WDG per 100 gallons of water. For control of Powdery Mildew and Botrytis (Gray Mold), use 0.4 pounds of SysTec 1998 WDG per 100 gallons of water.

Aerial Application: Use 0.3 to 0.8 pounds of SysTec 1998 WDG per acre.

## II. DRENCH

### PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
Botrytis	herbaceous annuals, perennials and bedding plants
Fusarium	herbaceous annuals, perennials and bedding plants
Sclerotinia stem, crown & roots	herbaceous annuals, perennials and bedding plants
Cylindrocladium rot	woody ornamentals (such as azaleas, rhododendrons, conifers, poinsettias)
Thielaviopsis rot	woody ornamentals (such as azaleas, rhododendrons, conifers, poinsettias)

NOTE: SysTec 1998 WDG does not control Pythium spp. or Phytophthora spp.

**Mixing instructions:** Add required amount of SysTec 1998 WDG to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Maintain continuous agitation to keep the material in suspension.

**Application Rates and Timing for Disease Control:** Use 0.8 pounds of SysTec 1998 WDG per 100 gallons of water. Apply as a drench or heavy spray to 800 sq. ft. of bench area (1 to 2 pints per square foot) after transplanting into propagation beds or containers. Repeat at 2 to 4 week intervals during periods favorable for disease.

### PREPLANT DIP TREATMENT

#### PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
All diseases listed under drench treatment.	plants or cuttings of woody and herbaceous ornamentals
Fusarium and Penicillium rots	bulbs (Easter Lily, Tulip, Gladiolus, Daffodil, Iris)

Application Rates and Timing for Disease Control:

Note to user: Operator should wear protective gloves for application. *Plants or Cuttings* - Use 0.8 pounds of SysTec 1998 WDG per 100 gallons of water, immerse plants or cuttings for 10 to 15 minutes; remove and allow to drain. Wear rubber gloves.

*Bulbs* - Use 1.4 pounds of SysTec 1998 WDG per 100 gallons of water. Soak cleaned bulbs for 15 to 30 minutes in warm dip (80° to 85°F) preferably within 48 hours after digging. Dry bulbs after treatment. If bulbs are for forcing, treat bulbs that have been heat-cured.

## CHEMIGATION NOT FOR USE IN CALIFORNIA GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have any questions about calibrations, you should contact State Extension Service specialists, equipment manufacturers or other experts.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Do not connect chemigation system to any public water system. Public water system means a system for the provision of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

### SYSTEM REQUIREMENTS

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements.

The system must contain a functional check, valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

### INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION:

Observe the requirements in the System Requirements section above.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Apply SysTec 1998 WDG only through systems containing antisiphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off.

Maintain a gently continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.

Application of more than recommended quantities of irrigation water per acre may result in decreased product performance. Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well/pivot/injection unit to prevent spray being applied to this area.

When sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

SysTec 1998 may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided. Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state.

## SPRAY PREPARATION

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

Prepare a suspension of SysTec 1998 WDG in a mix tank. Fill the tank with 1/2 or 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of SysTec 1998 WDG and then the remaining volume of water.

## APPLICATION INSTRUCTIONS

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of SysTec 1998 WDG into the irrigation water line so as to deliver the desired rate per acre. The suspension of SysTec 1998 WDG should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

**NOTE:** When treatment with SysTec 1998 WDG has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

**HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN, OR INHALED, CAUSES MODERATE EYE IRRITATION**

### PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow instructions for Category C on an EPA chemical resistant selection chart.

Applicators and other handlers must wear:

- long sleeved shirt and 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 pesticide 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 apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters.

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of 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. DO NOT enter treated areas without protective clothing until spray has dried.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**STORAGE INSTRUCTIONS:** Store in the original container in a dry area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

**PESTICIDE DISPOSAL INSTRUCTIONS:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL INSTRUCTIONS:** After bag has been emptied dispose of in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## WARRANTY AND DISCLAIMER

Regal Chemical Company warrants that this product conforms to the chemical descriptions on its label. When used in accordance with label directions under normal conditions, this product is reasonably fit for its intended purpose. Since timing, method of application, weather, plant and soil conditions, mixtures with other chemicals, and other factors affecting the use of this product are beyond our control no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks or any such use.