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# SYSTHANE® WSP

## ORNAMENTAL FUNGICIDE

-In Water-Soluble Pouches-



NOT FOR USE IN NASSAU OR SUFFOLK COUNTIES, NEW YORK.

### ACTIVE INGREDIENT

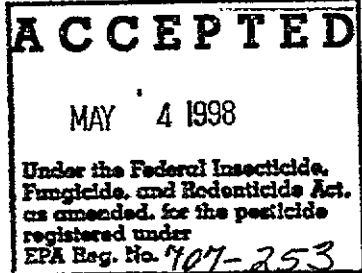
MYCLOBUTANIL

a-butyl-a-(chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile-----40%

INERT INGREDIENTS-----60%

TOTAL 100%

EPA REGISTRATION NO. 707-253



NOTICE: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

## KEEP OUT OF REACH OF CHILDREN CAUTION

### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Flush eyes with a large amount of water for at least 15 minutes. Call a physician if irritation persists.

**IF INHALED:** Move victim to fresh air.

**IF ON SKIN:** Wash affected skin thoroughly with soap and water.

**IF SWALLOWED:** Dilute by giving two glasses of water to drink and call a physician. Never give anything by mouth to an unconscious person.

### PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Causes eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Do not swallow, get in eyes, on skin or breathe spray mist.

#### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standards (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**User Safety Recommendations**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 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**

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. Do not apply when weather conditions favor drift or runoff from areas treated.

**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 interval (REI) of **24** 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:

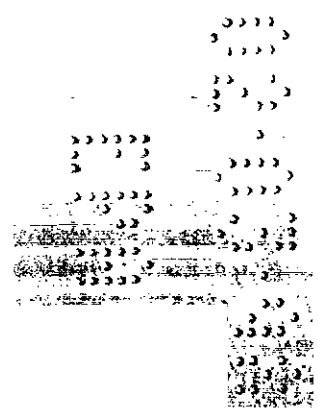
- Coveralls      •Waterproof gloves      •Shoes plus socks      •Protective eyewear
- Chemical-resistant headgear for overhead exposure

**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.

Seed treatments and professional applications to lawn grasses, golf courses, industrial (office park), municipal and residential lawns are not within the scope of the Worker Protection Standard.

•Keep unprotected persons out of treated area until sprays have dried.



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### STORAGE AND DISPOSAL

**STORAGE:** Store in a cool, dry area above freezing. The water-soluble pouch may become brittle at storage temperatures below 32°F. but the fungicide is not affected. Do not remove the water-soluble pouches from the container except for immediate use.

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

**CONTAINER DISPOSAL:** Completely empty container into application equipment. 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.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear eye protection. Wear protective clothing. Spray water on powder and dust. Scoop or shovel solid material into a suitable container for recovery or disposal. Keep dust to a minimum. Flush contaminated area with a large amount of water to a chemical or sanitary sewer containing a settling pit. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Thoroughly launder clothing before reuse. Refer to Precautionary Statements.

### CONDITIONS OF SALE AND WARRANTY

Rohm and Haas warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. **ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.** Handling, storage and use of the product by Buyer or User are beyond the control of Rohm and Haas and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

### GENERAL INFORMATION

SYSTHANE WSP fungicide is a systemic, protectant and curative fungicide recommended for the control of specific diseases mentioned on this label. Optimum disease control is achieved when the fungicide is applied in a regularly scheduled preventative spray program.

**USE RATE DETERMINATION** - Carefully read, understand and follow label use rates and restrictions.

Under low disease conditions, minimum label use rates per application can be used while maximum label rates and shortened spray schedules are recommended for severe or threatening disease conditions.

For proper application, determine the number of acres to be treated, the recommended label use rate and the gallonage to be applied per acre. Prepare only the amount of spray solution required to treat the measured acreage. Careful calibration of spray equipment is recommended prior to use.

**HANDLING** - The enclosed pouches of SYSTHANE WSP fungicide are water-soluble. Do not allow pouches to become wet prior to adding to the spray tank. Do not handle the pouches with wet hands or wet gloves. Always reseal overwrap bag to protect remaining unused pouches. Do not remove water-soluble pouches from overwrap except to add directly to the spray tank.

**MIXING PROCEDURES** - Be sure sprayer is clean and not contaminated with other materials prior to use. Fill tank 1/4 to 1/2 full with clean water and start agitation. Be certain that the agitation system is working properly and creates a rolling rippling on the liquid surface. With the agitator running, drop in the required number of unopened water-soluble pouches into the tank. Continue filling the tank with the remainder of the water. Always add SYSTHANE WSP fungicide into solution prior to adding any additional materials to the tank. Depending on the water temperature and degree of agitation, the pouches should dissolve completely within ten minutes after their addition to water.

**COMPATIBILITY** - SYSTHANE WSP fungicide is compatible with most commonly used fungicides, insecticides, growth regulators, micronutrients and spray adjuvants. When preparing tank mixes, user should consult spray compatibility charts of State Cooperative Extension Service Specialists prior to actual use.

**NOTE:** SYSTHANE WSP fungicide is compatible with boron and spray oils; however, the water soluble pouches must be completely dissolved before adding spray oils or products containing boron to spray mixtures.

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### APPLICATION PROCEDURES

**Ground Equipment:** Application equipment should be properly calibrated and provide a uniform spray coverage throughout the plant canopy.

**Handgun or Pressurized Sprayers:** For best control of labeled diseases, achieve thorough coverage of all plant parts on a protectant application schedule.

**Sprinkler Irrigation:** SYSTHANE WSP fungicide for ornamental plants must be applied on a regular protectant fungicide schedule, *not an irrigation schedule*. Apply only through solid set or hand move sprinkler irrigation systems. Do not apply product through any other type of irrigation system.

Lack of fungicidal effectiveness can result from nonuniform distribution of treated water. Greatest efficacy is achieved when the application of treated water does not exceed 1/4 inch per acre per application.

If you have questions about calibration, you should contact State Extension Service specialists or equipment manufacturers.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

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.

Before applying SYSTHANE fungicide to ornamental plants through sprinkler irrigation equipment, the chemigation system must meet the following specifications:

- Public water system means a system for the provision to the public of piped water for human consumption in such system that 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.

- Chemigation systems connected to public water systems must contain a functional reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the pipe fill and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

- Systems not connected to a public water supply must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located in 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, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

- 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 a 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.

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

### Specific Instructions for Solid-set and Hand Move Irrigation Equipment:

- Determine area covered by sprinkler.

- Fill injector solution tank with water and adjust flow rate to use the contents over a 10 to 30 minute interval.

- Determine the amount of SYSTHANE WSP fungicide required to treat area.

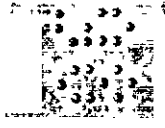
- Add the required amount of SYSTHANE WSP fungicide into the same quantity of water used to calibrate the injection equipment.

- Maintain constant solution tank agitation during the injection period.

- Operate system at normal pressures recommended by the manufacturer of the injection equipment and used for the time interval established during calibration.

- Inject SYSTHANE WSP fungicide at the end of an irrigation cycle or as a separate application to maximize foliar absorption and retention.

- Stop injection equipment after treatment is completed. Continue to operate the system until the SYSTHANE WSP fungicide solution has cleared the last sprinkler head.



## USE DIRECTIONS FOR ORNAMENTALS

SYSTHANE WSP is a systemic fungicide having protectant and curative properties. For best control of labeled diseases, achieve thorough coverage of all plant parts on a protectant application schedule. For greenhouse or field-grown ornamentals plants, SYSTHANE WSP fungicide should be used at 2.0 ounces (1 pouch) product per 50 gallons spray solution, unless otherwise directed, and applied on a 10 to 14 day application schedule.

For concentrate sprays (<100 gallons per acre) apply 4.0 ounces (2 water-soluble pouches) per acre on a 10 to 14 day application schedule with a dilute sprayer.

The addition of a nonphytotoxic spray adjuvant will improve spray coverage and fungicidal performance. Treated plants should be maintained in a vigorous growing condition. Plants under nutritional or water stress will not respond as well to treatment as well-maintained plants. Overdosage of SYSTHANE WSP fungicide can result in observable foliar greening and shortened internodes. If this condition is observed, reduce the fungicide use rate but do not extend the indicated application schedule.

### **CROP TOLERANCE**

Treated plants should be maintained in a vigorous growing condition. Plants under nutritional or water stress will not respond as well to treatment as well-maintained plants. Overdosage can result in observable foliar greening and shortened internodes. If this condition is observed, reduce the use rate but do not extend the application schedule.

Plant tolerances are acceptable in the specific plants listed on this label. It is not possible to evaluate all ornamental plant species or varieties for tolerance to SYSTHANE WSP fungicide. The user should test for possible phytotoxic responses by treating a limited number of plants, at recommended use rates, prior to initiating large scale use.

The effects of spraying SYSTHANE WSP fungicide in combination with plant growth regulators are not fully understood at this time. If the use of a plant growth regulator is planned in an area being treated, the user should test for possible enhanced growth regulatory effects by treating a small number of plants, at the recommended use rates of all products, prior to initiating large scale use. Since the effectiveness of such products depends not just on plant species or cultivar but also weather and seasonable differences (e.g., daylight hours), it is recommended that tests be repeated on previously tested varieties as environmental factors change and that observations for growth regulator responses be made at regular intervals.

### SPECIFIC USE DIRECTIONS FOR CHRYSANTHEMUM

**FOLIAR SPRAYS:** Best control is achieved by thorough coverage sprays, applied to runoff on a protectant application schedule. Use SYSTHANE WSP fungicide at a rate of 2 ounces per 50 gallons of spray solution (do not apply more than 6 ounces per acre per application or more than 5 pounds per acre per year). Applications should be made on a 10-to 14-day schedule (not to exceed 21 days).

**PRESTICK DIP TREATMENT:** Chrysanthemum cuttings may be treated by a dip procedure prior to planting as follows: Prepare a dip suspension at a concentration equivalent to 2 ounces SYSTHANE WSP fungicide per 50 gallons of water. Cuttings must be fully submerged in the dip suspension until wet throughout. (Cuttings should not remain submerged longer than 2 minutes). If cuttings are dipped, this procedure will represent the first spray under the quarantine program. Used dip suspension should be disposed of if it becomes contaminated with soil, plant debris or other foreign matter. Used dip suspension can be disposed of by spraying onto registered crops (but not onto previously dipped cuttings) after filtering, or in a manner consistent with local, state, and federal guidelines.

**NOTE:** All infected plant material must be destroyed if your state is under quarantine directive.

### **RESTRICTIONS**

- Do not apply more than 6 ounces (2.4 ounces active) per acre per application.
- Do not apply more than 5 pounds (2 pounds active) per acre per year.
- Do not use treated plant materials for food or feed.



ORNAMENTALS -cont.-

CROP	DISEASES CONTROLLED	REMARKS	CROP SPECIFIC RESTRICTIONS
Buttonbush	Cercospora Leaf Blight Powdery Mildew Rust		
Calendula	Cercospora Leaf Spot		
California Poppy	Powdery Mildew		
Camation	Powdery Mildew Rust		
Catalpa	Cercospora Leaf Spot Powdery Mildew		
Cherry, Flowering	Leaf Spot Powdery Mildew		
Chestnut, Horse	Powdery Mildew		
China Aster	Rust		
Chokeberry	Rust Twig and Fruit blight		Fruit may not be used for food or feed.
Chrysanthemum	Ascochyta Blight Rust White Rust	See specific use directions.	
Colombine	Rust		
Cornflower	Rust		
Cosmos	Powdery Mildew		
Cotton Wood	Powdery Mildew		
Crabapple, Flowering	Powdery Mildew Rust Scab		
Crepe-Myrtle	Powdery Mildew		
Dahlia	Powdery Mildew		
Delphinium	Powdery Mildew Rust		
Dogwood	Anthracoese Powdery Mildew Septoria Leafspot		
Douglas Fir (Nursery)	Needle Rust	Apply 6 to 10 ounces per acre starting early spring. Continue applications at 2 to 3 week intervals until the threat of infection has passed. Spray adjuvants must be added to spray solutions to obtain good spray coverage and disease control.	
Dianthus	Rust		
Elm	Powdery Mildew		))))
Euonymus	Powdery Mildew		))))
Fern	Rhizoctonia Aerial Blight		))))
Fleabane	Cercospora Leaf Spot Powdery Mildew Rust		)))))) )) ))))
Four O'Clock	Rust		)))))) ))))



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ORNAMENTALS -cont-

CROP	DISEASES CONTROLLED	REMARKS	CROP SPECIFIC RESTRICTIONS
Fuchsia	Rust		
Gaillardia	Powdery Mildew Rust		
Gerbera Daisy	Powdery Mildew		
Gardenia	Powdery Mildew Rust		
Geranium	Powdery Mildew Rust		
Gourd, Ornamental	Powdery Mildew		
Grape Leaf Ivy	Powdery Mildew		
Hackberry	Cercospora Leaf Spot Powdery Mildew		
Hawthorn	Fabraea Leaf Spot Powdery Mildew Rust Scab		
Holly	Powdery Mildew		
Hollyhock	Powdery Mildew Rust		
Honeysuckle	Cercospora Leaf Spot Powdery Mildew		
Hydrangea	Cercospora Leaf Spot		
Iris	Didymellina Leaf Spot Rust	Apply 4 oz. per 50 gallons spray solution.	
Juniper	Rust		
Leucothoe	Cercospora Leaf Spot		
Lilac	Powdery Mildew		
Loblolly Pine (Nursery)	Fusiform Rust	Refer to Douglas Fir	
Locust	Powdery Mildew		
Maple *	Powdery Mildew		Treated trees may not be used for syrup production.
Marigold	Cercospora Leaf Spot Rust		
Mock-Orange	Powdery Mildew Rust		
Moonflower	Rust		
Mountain Laurel	Cercospora Leaf Spot Ovalinia Petal Blight Powdery Mildew	Refer to Azalea	
Nephtytis	Cephalosporium Leaf Spot		
Ninebark	Rust		
Oak	Powdery Mildew		
Pansy	Powdery Mildew Rust		



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ORNAMENTALS -cont.-

CROP	DISEASES CONTROLLED	REMARKS	CROP SPECIFIC RESTRICTIONS
Pear, Flowering	Powdery Mildew Rust Scab		
Petunia	Powdery Mildew Rust		
Phlox	Cercospora Leaf Spot Powdery Mildew Rust		
Photinia	Entomosporium Leaf Spot Powdery Mildew Rust		
Poinsettia	Powdery Mildew		
Poplar	Rust		
Potentilla	Rust		
Privet	Cercospora Leaf Spot Powdery Mildew		
Pyracantha (Firethorn)	Fusicladium Scab		
Quince, Flowering	Blossom and Twig Blight Cercospora Leaf Spot Fabraea Leaf Spot Rust		
Rhododendron	Cercospora Leaf Spot Ovulinia Petal Blight Powdery Mildew	Refer to Azalea	
Rose	Black Spot Powdery Mildew Rust	Apply on a 7 to 10 day schedule. In areas where black spot is not a problem, spray intervals may be increased to a maximum of 14 days.	
Russian Olive	Cercospora Leaf Spot Rust		
Salvia	Powdery Mildew Rust		
Sedum	Powdery Mildew		
Slash Pine (Nursery)	Fusiform Rust	Refer to Douglas Fir	
Smoke-Tree (Cotinus)	Cercospora Leaf Spot Rust		
Snapdragon	Powdery Mildew Rust		
Spiraea	Powdery Mildew		
Sunflower	Cercospora Leaf Spot Powdery Mildew Rust		Seeds from treated plants may not be used for food or feed.
Sycamore	Powdery Mildew		

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ORNAMENTALS -cont.-

CROP	DISEASES CONTROLLED	REMARKS	CROP SPECIFIC RESTRICTIONS
Trumpet-Creeper	Cercospora Leaf Blight Powdery Mildew		
Viburnum	Powdery Mildew Rust		
Walnut	Powdery Mildew		Nuts from treated trees may not be used for food purposes.
Willow	Powdery Mildew		
Zinnia	Cercospora Leaf Spot Powdery Mildew		

\* DO NOT APPLY TO ABUTILON (flowering maple).

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