



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

October 9, 2024

Bob McDonald
Regulatory Consultant for,
Maril Products, Inc.
Electronic Transmittal: bmacdonald@srcconsultants.com

Subject: Label Amendment – To Update Precautionary Statement as per the State of California Request
Product Name: PHYSAN 20
EPA Registration Number: 55364-5
Received Date: 07/31/2023
Action Case Number: 00487682

Dear Mr. McDonald:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the

website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B).

Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Assurance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Karen Leavy by phone at (202)-566-0668, or via email at Leavy.Karen@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Luisa C. Samalot-Freire", with a large, loopy flourish at the end.

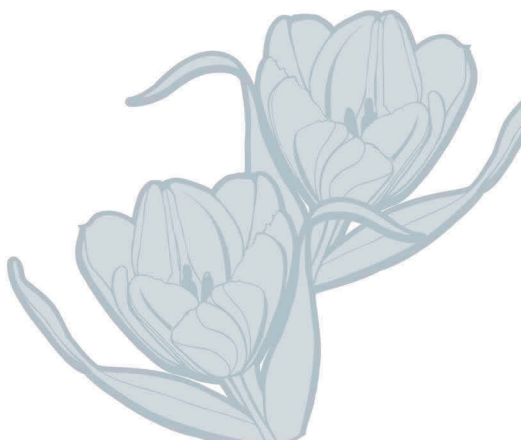
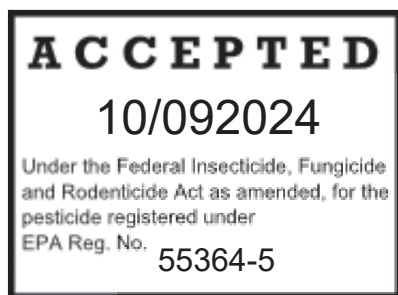
Luisa C. Samalot-Freire, Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510M)
Office of Pesticide Programs
U.S. Environmental Protection Agency

Enclosure: Stamped label

Text in (...) and italicized is in explanation of labeling panels, administrative text, etc. and will not appear in actual labeling. Information that is bracketed [...] is optional text.

PHYSAN 20

(Optional logo and graphic – color may vary)



ALGAECIDE, FUNGICIDE, BACTERICIDE, VIRUCIDE

For NON-POROUS SURFACES, ORCHIDS, FOUNTAINS, ORNAMENTALS

ACTIVE INGREDIENTS:

n-alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride.....10%

n-alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride.....10%

INERT INGREDIENTS.....80%

TOTAL.....100%

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle (If you do not understand this label, find someone to explain it to you in detail.) See left panel for additional precautionary statements.

EPA EST. NO. 40873-CA-01, GA-01

EPA REG. NO. 55364-5

NET CONTENTS

MARIL PRODUCTS, INC.

15421 Red Hill Avenue, Suite D, Tustin, CA 92780 USA

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www.physan.com

Text in (...) and italicized is in explanation of labeling panels, administrative text, etc. and will not appear in actual labeling. Information that is bracketed [...] is optional text.

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers (other than mixers and loaders) must wear coveralls worn over long-sleeved shirt and long pants, waterproof gloves, chemical-resistant footwear and socks and protective eyewear. 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.

User Safety Recommendations:

User 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.

(FIRST AID is located on the principal display panel of the container label)

FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

HOT LINE NUMBER

For emergency medical advise, call your local poison control center (1-800-222-1222) or doctor. Have the product container or label with you when seeking medical advice or treatment.

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ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specially identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

[Containers 5 gallons or less]

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal. Store in areas inaccessible to children or persons unfamiliar with its use. Do not store on the side. Do not reuse empty container. Discard in trash.

CONTAINER HANDLING:

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Store rinsate for later disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

[Container greater than 5 gallons]

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal. **Pesticide Storage:** Store in areas inaccessible to children or persons unfamiliar with its use. Do not store on the side. **Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of pesticide spray or mixture of 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 Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. **Container Handling:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Store rinsate for later disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or if allowed by State and local authorities by burning. If burned, stay out of smoke.

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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 products only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to “Insert #1” supplemental labeling under “AGRICULTURAL USE REQUIREMENTS” in the Directions for Use section for information about this standard.] (*For one gallon container only*)

PHYSAN 20 is a general Bactericide, Fungicide, Virucide and Algaecide for hard inanimate non-porous surfaces[.] [and] [It will help to control cross-contamination of fungal, bacterial and viral plant pathogens and algae.] [PHYSAN 20 has been designed] [for [domestic] horticultural applications] [in domestic and commercial greenhouses] where cross-contamination can occur.

GENERAL CONTROL OF PLANT PATHOGENS ON INANIMATE HARD SURFACES

Pre-clean all surfaces prior to applying disinfection solution for control of plant pathogens on inanimate hard surfaces. Use 1 Tablespoon PHYSAN 20 per gallon of water. Apply [this] PHYSAN 20 solution to floors, walls, benches, tools, pots, and flats with a cloth, mop, mechanical device or immersion so as to thoroughly wet all surfaces. All hard non-porous inanimate surfaces must remain thoroughly wet for [ten][10] minutes for disinfection. Fresh solution should be prepared daily or when solution becomes visibly dirty.

[PLANT PATHOGENS CONTROL

To help control the spread of pathogens on hard non-porous surfaces add ½ fluid ounce (one Tablespoon) PHYSAN 20 per one gallon of water. The activity of PHYSAN 20 has been evaluated and found to be effective in reducing the spread of bacterial, fungal and viral organisms such as:

- *Pseudomonas cattleyae* – causes crown rot on orchids
- *Erwinia cypripedii* – causes brown rot on orchids
- *Erwinia carotovora* – causes soft rot on orchids
- *Agrobacterium tumefaciens* – causes crown gall on orchids, roses, and crape myrtle
- *Enterobacter agglomerans* – causes brown spot on orchids, roses, and crape myrtle
- *Botrytis cinerea* – causes petal blight on orchids, roses and crape myrtle

NOT INTENDED FOR USE IN GREENHOUSES WHERE FOOD CROPS ARE GROWN. FOR ADDITIONAL USE APPLICATIONS, INCLUDING USE ON PLANTS, REFER TO “INSERT #1” (*For one gallon container only*)

[ORCHIDS

Adult plants, use 2 tsp. PHYSAN 20 per gallon of water. Spray anytime disease other than rot is evident. Spray once per month as preventative maintenance. Soak compost when fungus is evident. For other uses of PHYSAN 20 with orchids, refer to Insert #2

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ROSES

(Black Spot, Powdery Mildew, Stem Gall) Use 2 tsp. PHYSAN 20 concentrate in 1 gallon of water. Spray with PHYSAN 20 solution when symptoms appear. Spray upper and lower surface of leaves and branches with PHYSAN 20 solution until thoroughly wet. Spray with PHYSAN 20 solution several times, 7-10 days apart.

AFRICAN VIOLETS (*Saintpaulia*)

Bud Rot, Crown Rot, Downy Mildew, Gray Mold Rot (*Botrytis*), Powdery Mildew, Root Rot. Use 1 T. PHYSAN 20 concentrate in 4 gallons of water. Dip plant and pot in PHYSAN 20 solution. Spraying is okay, but complete coverage of all surfaces is important. Spray every 10 days until controlled. For other uses of PHYSAN 20 with African violets, refer to Insert #2.

ALGAE CONTROL FOR BIRTH BATHS, FOUNTAINS, WATER DISPLAYS AND DECORATIVE POOLS

Clean to remove algae growth prior to filling bird bath by spraying all exposed surfaces with PHYSAN 20 solution. Allow to air dry; brush off the dead algae. Use 2 T. PHYSAN 20 concentrate per 2 gallons of water to clean.

DO NOT USE WITH FISH

Initial dose: Add 1 tsp. PHYSAN 20 concentrate per 52 gallons of water (1 oz. PHYSAN 20 concentrate per 312 gallons of water) to achieve a concentration of 5 ppm. ***Weekly dose:*** Add 1 tsp. PHYSAN 20 concentrate per 104 gallons of water each week to maintain a concentration of 2-3 ppm.

NOT INTENDED FOR USE IN DOMESTIC GREENHOUSES WHERE FOOD CROPS ARE GROWN. FOR ADDITIONAL USE APPLICATIONS, REFER TO INSERT #2] (*For 16 oz. and 8 oz. only*)

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(Additional Text)

(PHYSAN Logo and Graphic Here)

PHYSAN 20™

DISINFECTANT SANITIZER DEODORIZER FUNGICIDE ALGAECIDE VIRUCIDE

INSERT [# 1] [#2]

EPA REG. No. 55364-5

Maril Products, Inc.

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[Directions for Use

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). The requirements only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into the treated areas during 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, worn over long-sleeved shirt and long pants, waterproof gloves, chemical resistant footwear and socks and protective eyewear.] (*Insert #1*)

[USER SAFETY RECOMMENDATIONS

User 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 Personal Protection Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Directions for Use

Do not enter or allow entry into the treated areas during restricted entry interval (REI) of 12 hours] (*Insert #2*)

USAGE CONVERSION TABLE

TABLESPOONS	FLUID OUNCES
1	½
2	1
3	1-1/2
4	2

This chart illustrates Tablespoons and their fluid ounce equivalents. One Tablespoon is equal to three (3) teaspoons.

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HARD SURFACES/EXTERIORS

Algae-Walkways

For heavy infestation, spray or swab. Let stand for an hour or more. Brush and wash away dead algae. Soak area again with PHYSAN 20 solution. Do not rinse. This product will inhibit the growth of algae on walkways. Allow to dry on surface, and repeat application when algae growth returns.

USE: 1 Tablespoon PHYSAN 20 concentrate in 1 gallon of water.

Algae Control – [Domestic] Greenhouse Glass

Spray or swab surfaces. Let stand for one hour or more or until the algae visibly begins to change to a lighter color. Wash off dead algae with water. Spray clean surfaces again with the PHYSAN 20 solution.

USE: 1 teaspoon PHYSAN 20 concentrate per gallon of water.

Disinfecting Cutting Tools

Soak cutting edge of tool for 10 minutes in PHYSAN 20 solution before use to kill such diseases as Botrytis, Root Rot, Stem Rot and Tobacco Mosaic Virus (TMV). Use wet tool on plants. Dry and oil tools at the end of work.

USE: 1 teaspoon PHYSAN 20 concentrate per 1 quart water.

Mildewstat – Table Tops, Floors

To control mold and mildew on pre-cleaned hard, non-porous surfaces (such as floors, walls, table tops). Apply solution with a cloth, mop or sponge, making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth reappears.

USE: 3 Tablespoons of PHYSAN 20 concentrate in 2 gallons of water.

Pots, Flats and Flower Buckets

Used pots and flats should be brushed or washed, then soaked in PHYSAN 20 solution for 10 minutes before using to kill such diseases as Anthracnose, Blight, Crown Rot, Mildew, Root Rot and Rusts.

USE: 1 Tablespoon PHYSAN 20 concentrate in 1 gallon of water.

Work Area and Benches

Before each work period, spray or swab working surfaces. Spray or swab again after each plant is completed to kill such diseases as, Botrytis, Crown Rot, Downy Mildew, Root Rot, etc.

USE: 1 Tablespoon PHYSAN 20 concentrate in 1 gallon of water.

ADULT PLANTS/HOUSE PLANTS

House Plants

To control algae and cross contamination in terrariums, bubbles, etc., wipes inside of glass with paper towel dampened with PHYSAN 20 solution.

USE: 1 teaspoon PHYSAN 20 concentrate in 1 gallon of water.

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BIRD BATHS/SWIMMING POOLS/FOUNTAINS/WATER DISPLAYS/DECORATIVE POOLS

Algae Control for Bird Baths, Fountains, Water Displays, and Decorative Pools

DO NOT USE WITH FISH!

Clean to remove algae growth prior to filling bird bath by spraying all exposed surfaces with PHYSAN 20 solution. Allow to air dry; brush off the dead algae.

USE: 2 [Tablespoons] [T.] of PHYSAN 20 concentrate in 2 gallons of water to clean.

Initial Dose: Add 1 [teaspoon] [tsp.] PHYSAN 20 concentrate per 52 gallons of water (1 fluid ounce PHYSAN 20 concentrate per 312 gallons of water) to achieve a concentration of 5 ppm.

Weekly Dose: Add 1 [teaspoon] [tsp.] PHYSAN 20 concentrate per 104 gallons of water each week to maintain a concentration of 2-3 ppm.

Algae Control - Swimming Pools

Initial dose should be 2 quarts PHYSAN 20 concentrate per 50,000 gallons of water (or 13 fluid ounces per 10,000 gallons of water) followed by cleaning out of settled algae next day and re-treatment at the same dosage. This is repeated until the pool is clear of visible algae. Then 1 pint of PHYSAN 20 concentrate per 50,000 gallons of water (or 3 1/5 fluid ounces per 10,000 gallons of water) is used every 5-7 days to maintain control. Apply PHYSAN 20 along edges of the pool. After adding the PHYSAN 20, wait 30 minutes before using the pool to allow PHYSAN 20 to be distributed evenly throughout the pool. At the beginning of the swimming season or after a storm, remove branches, leaves and other foreign material before treating the pool with PHYSAN 20.

[Evaporative Coolers – Algae, Fungus, and Odors

Control algae and slime-forming fungi on cooler pads and certain fungal plant pathogens that may carry over in the cooler as well as bacterial odors.

USE: 1 teaspoon PHYSAN 20 concentrate in 15 gallons of water every other week] (*Insert #1*)

SEEDS/SEEDLINGS/CUT FLOWERS

Cut Flowers in Containers, Tubes, and Decorative Vases – Bacterial Stem Plugging.

To eliminate stem plugging (which restricts uptake of water) and to control bacteria and fungi (which create ethylene gas, a cause of petal drop), flower spikes should be hardened by keeping the stems in PHYSAN 20 solution during harvesting, storage and shipping.

USE: 1 teaspoon of PHYSAN 20 concentrate in 1 gallon of water.

Plant Cuttings – Begonia, Chrysanthemum, Fuchsia, and Geranium.

For controlling Crown Gall, Gray Mold Leaf Spots, and Powdery Mildew, soak completely immersed cuttings 2-5 minutes in 1-1/2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water. Plant in compost completely saturated in PHYSAN 20 solution.

USE: 1-1/2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water.

Text in (...) and italicized is in explanation of labeling panels, administrative text, etc. and will not appear in actual labeling. Information that is bracketed [...] is optional text.

Seeds and Seedlings – Damping Off

Treat seeds and seedlings by soaking in a solution of 1-1/2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water for 5 minutes. Fill the flask containing the seed or seedlings with enough PHYSAN 20 solution to completely cover the seeds/seedlings. Drain the PHYSAN 20 solution off the seeds/seedlings before planting. Use a fresh solution of PHYSAN 20 for each flask.

Seedlings – Damping Off (ornamental plants only)

Make a solution of 1-1/2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water. Soak seedlings in PHYSAN 20 solution for 5 minutes. Use a soak container large enough to completely immerse one flask of seedlings at a time. Change the solution daily or more often if solution becomes visibly dirty. If a garden soil is used for planting seedlings, completely saturate the soil in PHYSAN 20 solution. Place the soil in a pot or tray and add enough PHYSAN 20 solution to completely cover the soil. Let the solution drain through the soil or pour off excess.

USE: 1-1/2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water.

PHYSAN 20 solution is effective in stopping the spread of damping off when sprayed on seedlings. Spray seedlings so that all surfaces are thoroughly wet.

USE: 2 Tablespoons of PHYSAN 20 concentrate in 3 gallons of water or 2 tsp. PHYSAN 20 concentrate in 1 gallon of water.

Seedlings – Downy Mildew (Ornamental Plants only)

Most common on seedlings. The fungus sporulates on the lower surface of leaves as a white, sparse downy growth. The disease can cause the death of aerial plant parts. Spray seedlings so that all surfaces are thoroughly wet with PHYSAN 20 solution at 5-day intervals until under control.

USE: 2 Tablespoons of PHYSAN 20 concentrate in 3 gallons of water.

TREES/LAWN/TURFGRASS

Flowering Dogwood (cornus florida) – Anthracnose, Leaf Blights, Leaf Spots

Small circular, dirty yellow spots with reddish purple margins on flowers, leaves and young shoots. Spray 4 times – when flower buds begin to open; as soon as flower bracts have fallen; 4 weeks later; and in late Summer after flower buds are well formed. If possible, spray just before rainy periods.

USE: 2 Tablespoons of PHYSAN concentrate in 3 gallons of water.

This usage not approved in the State of California.

(Preceding California statement appears in text that is a different color)

Trees (Ash, Sycamore, etc.) Anthracnose

Spray upper and underside of leaves and twigs until thoroughly wet. A large tree requires 50-60 gallons of spray per treatment for adequate coverage. Treat tree with three applications; as buds start to swell in April; as leaves start to expand; and as leaves are about 3/4 grown.

USE: 2 Tablespoons PHYSAN 20 concentrate in 3 gallons of water.

This usage not approved in the State of California.

(Preceding California statement appears in text that is a different color)

Lawn – Grass – Dichondra – for Control of Certain Fungal Diseases and Rusts

Text in (...) and italicized is in explanation of labeling panels, administrative text, etc. and will not appear in actual labeling. Information that is bracketed [...] is optional text.

1 pint of concentrate diluted treats 6,400 square feet. Controls the following fungal diseases: Algae, Dollar Spot, Fading-Out, Fairy Ring, Leaf Spot, Rust, Sclerotium rolfsii, Toad Stools. Spray with PHYSAN 20 solution at a rate of 5 gallons solution per 1,000 square feet of turf. Be sure all surfaces or grass are treated and the area is thoroughly soaked with solution. When disease reappears, repeat application. Do not graze treated areas or feed clippings to livestock.

USE: 1 Tablespoon PHYSAN 20 concentrate in 1 gallon of water

This usage not approved in the State of California.

(Preceding California statement appears in text that is a different color)

SPECIFIC PLANT APPLICATIONS

Aucuba, Dahlia, Fuchsia, Geranium, Gladiolus, Peony, Pieris – Botrytis, Downy Mildew, Gray Mold, and Rusts

Downy mildew primarily affects new growth with symptoms of soft decay of flowers, leaves or stems followed by a covering of downy gray mold. Control of the disease consists of quick removal of dead plant parts and application of PHYSAN 20 at the first signs of disease. For Botrytis, spray buds and blooms lightly 2 to 3 times a week using a fine mist. For Rust, apply at 7-14 day intervals during wet periods starting in early Summer. Before shipping, dip spikes in PHYSAN 20 solution.

USE: 2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water.

This usage on Dahlia, Geranium, Gladiolus not approved in the State of California.

(Preceding California statement appears in text that is a different color)

Begonias, Ferns and Gesneria (corytholoma, isoloma, allopiectus, episcia, trichosporum) – Bud Rot, Gray Mold, Leaf Spots, and Shoot Rot.

All phases of culture. Remove all plant refuse or dead leaves. Garden clean-up is important in control. Spray PHYSAN 20 solution before the buds open. Then spray when blossom petals have fallen. Spray when 3/4 of the blossom petals have fallen. Spray again two weeks after petal fall.

USE: 1 teaspoon of PHYSAN 20 concentrate in 1 gallon of water.

Bulbs – Daffodil, Easter Lilies, Gladioli, Hyacinth, Iris, Narcissus, and Tulips

Pre-storage and pre-planting treatments: Treat the corms and bulbs immediately after they are “cleaned” and treat again immediately before planting by soaking them 10 minutes in PHYSAN 20 solution to control fusarium basal rot. Air dry.

USE: 1 Tablespoon PHYSAN 20 concentrate in 1 gallon of water.

Cactus – Bacterial Leaf Spot, Root Rot, Top Rot

For rotting of underground parts by fungi and bacterial leaf spot or rot of the tops, sterilize seeds and disease-free cuttings by dipping in PHYSAN 20 solution for 5 minutes before planting. Spray at 10-14 day intervals.

USE: 2 Tablespoons of PHYSAN 20 concentrate in 3 gallons of water.

Cactus – Slimy Collar Rot

Just before planting, dip entire plant in PHYSAN 20 solution.

USE: 2 teaspoons PHYSAN 20 concentrate in 1 gallon of water.

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Calendulas, China Asters, Chrysanthemums, Crape Myrtle, Dahlias, Lilac, Live Oak – Powdery Mildew

Spray with PHYSAN 20 solution when symptoms appear. Spray upper and lower surface of leaves and branches with PHYSAN 20 solution until thoroughly wet. Spray when buds burst in Spring and repeat in 2 weeks. Spray with PHYSAN 20 solution every two weeks during mildew season. Also, spray Live Oaks at bud break and again in April.

USE: 2 Tablespoons PHYSAN 20 concentrate in 3 gallons of water.

Carnations – Canker Rot, Carnation Rust, Crown Rot, Gray Mold Rot, Leaf Spots, Root Rot, and Stem Rot.

For Rust, completely immerse cuttings in PHYSAN 20 solution before planting. For Gray Mold, apply PHYSAN 20 solution 1-2 times just before bud bloom. Apply a light mist spray as the flowers are opening. Carefully collect and burn infected buds, blossoms, and stems.

USE: 2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water.

This usage for control of Crown Rot, Rust, and Gray Mold on Carnations not approved in the State of California.

(Preceding California statement appears in text that is a different color)

Crassula, Kalanchoe, and Sedum – Crown Gall, Crown Rot, and Root Rot.

Destroy infected plants or plant parts and drench the remainder with PHYSAN 20 solution. Spray plants weekly to assure solution getting around and in the base of leaves.

USE: 2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water.

Fuchsia, Gardenia, Geranium, Heliotrope – Bud Rot, Gray Mold and Stem Rot.

At the first sign of disease, pick off and burn infected leaves and blossoms; spray, mist, or fog weekly as needed.

USE: 2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water.

This usage on Geranium for Gray Mold not approved in the State of California.

(Preceding California statement appears in text that is a different color)

Hawthorn (crataegus) – Leaf Blights

After a very wet Spring, small reddish brown spots appear on the upper surfaces of leaves. When spots are numerous, leaves drop. Make 3 spray applications: First, as soon as the leaves emerge from the buds; then when leaves are half grown; and again when fully grown.

USE: 2 Tablespoons of PHYSAN 20 concentrate in 3 gallons of water.

Hawthorn, Hollyhock, Snapdragons – Rust

Spraying for protection should begin with the development of new leaves following winter clean-up or dormancy. Spraying should begin before the onset of the rainy season. Be sure the undersides of infected leaves are covered by PHYSAN 20 spray solution. For hollyhocks, apply at weekly intervals. Start as soon as growth begin. Repeat applications in late Summer. For snapdragons, collect and burn the tops in the Fall. Avoid sprinkling the foliage while indoors. Apply PHYSAN 20 solution at 7-10 day intervals. Start when plants are set in the garden.

USE: 2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water.

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Iris – Botrytis, Crown Rot of Iris, Gray Mold, Rot on Rhizomatous Iris

Treat all new rhizomes before planting with PHYSAN 20 solution. Submerge rhizomes and 3 to 4 inches of leaves for 30 minutes. Plant at once (while still wet with PHYSAN 20 solution).

USE: 2 Tablespoons of PHYSAN 20 concentrate in 3 gallons of water.

This usage to control Botrytis and Gray Mold not approved in the State of California.

(Preceding California statement appears in text that is a different color)

Iris – Botrytis Leaf Spots

Circular spots, yellowish, then light brown with red border. Spray weekly while plants are growing.

USE: 2 teaspoons PHYSAN 20 concentrate in 1 gallon of water.

Orchids – Adult plants

Spray anytime disease other than rot (see below) is evident. Spray once per month as preventive maintenance. Soak compost when fungus is evident.

USE: 2 teaspoons PHYSAN 20 per gallon of water.

Orchids – Botrytis

During cool damp weather, spray plants, flowers and under benches at first sign of the spotting on flowers. Normally weekly spray will greatly reduce or eliminate the Botrytis spotting.

USE: 1 teaspoon PHYSAN 20 concentrate per 3 gallons of water.

Orchids – Crown Rot – Phaelenopsis

Spray plants weekly to assure solution getting around and in base of leaves.

USE: 1 teaspoon PHYSAN 20 concentrate per gallon of water.

Orchids – Dividing Plants

Remove compost, then soak plant for 2-5 minutes in PHYSAN 20 solution. Operate with wet hands and cutting tools. After division and root trip, soak divisions in PHYSAN 20 solution 2-5 minutes. Pot in compost dampened with PHYSAN 20 solution.

USE: 1 Tablespoon PHYSAN 20 concentrate per gallon of water.

Orchids – Rot (such as Erwinia)

Remove compost from plant then soak entire plant 10 minutes or more. Cut away all rot with treated tool. Soak plant wounds again for 10 minutes. Repot in PHYSAN 20 soaked compost.

USE: 1 Tablespoon PHYSAN 20 concentrate per gallon of water.

Palms – Heart Rot and Penicillium Leaf Base Rot

At the first sign of rot, completely fill cup, or “heart” formed by palm branches at top center of plant. Repeat every 7 days until controlled.

USE: 2 Tablespoons PHYSAN 20 concentrate in 3 gallons of water.

Roses – Brown Canker

Use regular spraying. Application should begin in early Spring as soon as new growth starts and should be made often enough to provide protection throughout the rainy periods and to keep the new growth

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covered. On the average, an application once a week will be needed from early Spring until plants are dormant.

USE: 2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water.

Roses – Black Spot, Powdery Mildew, Rusts, Stem Gall

Spray with PHYSAN 20 solution when symptoms appear. Spray upper and lower surface of leaves and branches with PHYSAN 20 solution until thoroughly wet. Spray with PHYSAN 20 solution several times, 7 to 10 days apart.

USE: 2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water.

This usage for control of Rust not approved in the State of California.

(Preceding California statement appears in text that is a different color)

Rubber Plant – Anthracnose on Leaves and Stems, Crown Gall on Stems

At the first sign of disease, pick off and burn infected leaves, spray, mist or fog weekly with PHYSAN 20 solution as needed.

USE: 1 teaspoon of PHYSAN 20 concentrate in 1 gallon of water.

Saintpaulia (African Violets) - Bud Rot , Crown Rot, Downy Mildew, Gray Mold Rot (Botrytis), Powdery Mildew, Root Rot.

Dip plant and pot in PHYSAN 20 solution. Spraying is okay, but complete coverage of all surfaces is important. Spray every 10 days until controlled.

USE: 1 Tablespoon PHYSAN 20 concentrate in 4 gallons of water.

Snapdragons - Anthracnose, Downy Mildew, Phyllosticta Blight, Powdery Mildew, Rusts, Stem Rot, Wilts.

Spray with PHYSAN 20 solution when symptoms appear. Spray upper and lower sides of leaves until thoroughly wet, every 7-10 days. Collect and burn the tops in the Fall.

USE: 2 teaspoons of PHYSAN 20 concentrate in 1 gallon of water.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM!