

55364-5

05/20/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



Office of Pesticide Programs

David Swain,
SRC Consultants, Inc.
P.O. Box 1014,
Columbia City, In 46725

MAY 20 2010

Subject: Product Name: Physan 20
EPA Reg. No.: 55364-5
Notification Date: April 22, 2010
EPA Receipt Date: April 26, 2010
Submissions #: 874106

Dear Mr. Swain,

This letter acknowledges receipt of your notification submitted under the provision of the Federal Insecticide, Fungicide and Rodenticide Act. (FIFRA) section 3(c)9 and PR Notice 98-10.

Proposed Label Change per PR Notice 2007-4:

- Label change per Storage and Disposal Container Rule (40CRF 156)

General Comments

Based on a review of the submitted materials, your application for pesticide notification of the product "Physan 20", EPA Reg. No. 55364-5 is acceptable. A copy of your notification has been placed in our records for future reference. Should you have any questions or comments concerning this letter, please contact Velma Noble PM team 31 at (703) 308-6233 or Jamil Mixon at (703) 308-8032.

Sincerely,

Velma Noble,
Product Manager, Team 31
Regulatory Management Branch
Antimicrobials Division (7510P)

CONCURRENCES

SYMBOL	SURNAME	DATE					

SRG
Scientific & Regulatory
Consultants, Inc.

April 22, 2010

Ms. Velma Noble, PM 31
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U. S. Environmental Protection Agency
Room S-4900, 4th Floor
One Potomac Yard
2777 S Crystal Drive
Arlington, VA 22202

SUBJECT: Notification (Container and Containment Regulations) per PR Notice 2007-4
Physan 20
EPA Reg. No.: 55364-5

Dear Ms. Noble,

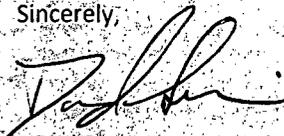
On behalf of our client, Maril Products, Inc., enclosed is a notification revising the storage and disposal section to comply with the Final Pesticide Container and Containment Regulations. This is a Notification per PR Notice 2007-4; therefore, no PRIA fee is required.

The new statements, as specified in the guidance, have been included as required text in the attached labeling. The new statements are highlighted in yellow on the enclosed label. No other changes in the existing labeling have been made.

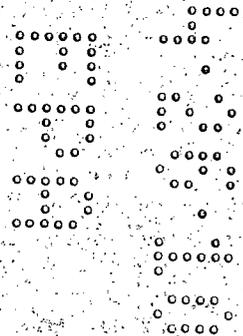
This notification, as stipulated by the guidance, is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action, and penalties under sections 12 and 14 of FIFRA.

Please contact me at (260) 244-6270 or at dswain@srconsultants.com if you have any questions about this notification.

Sincerely,



David Swain
Agent for Maril Products, Inc.
cc: A. Whitehead



4117



**ALGAECIDE • FUNGICIDE
BACTERICIDE • VIRUCIDE**

For
**NON-POROUS SURFACES
ORCHIDS, FOUNTAINS, ORNAMENTALS**

ACTIVE INGREDIENTS:

n-alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ , 5% C ₁₈) dimethyl benzyl ammonium chloride.....	10%
n-alkyl (68% C ₁₂ , 32% C ₁₄) 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.**
320 West 6th Street, Tustin, CA 92780 USA
714-544-7711 • 800-546-7711
www.physan.com

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RIGHT PANEL

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. 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, Viricide and Algacide 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 1/2 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 cyripedii – 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.

ROSES

(Black Spot, Powdery Mildew, Stem Gall)
Use 2 tsp. PHYSAN 20 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 BIRD 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 per 57 gallons of water (1 oz. PHYSAN 20 per 312 gallons of water) to achieve a concentration of 5 ppm. **Weekly dose:** Add 1 tsp. PHYSAN 20 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.)



LEFT PANEL

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. May be 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 long-sleeved shirt and long pants, waterproof gloves, shoes plus 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.

[Containers 5 gallon 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 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.

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 advice, 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.

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 specifically 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.

[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 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.

(Additional Text)

(Physan Logo and Graphic Here)

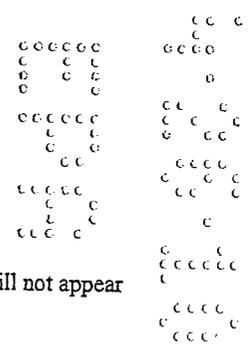
PHYSAN 20™

**DISINFECTANT•SANITIZER•DEODORIZER
FUNGICIDE•ALGAECIDE
VIRUCIDE**

INSERT (# 1) (#2)

EPA REG. No. 55364-5

**Maril Products, Inc.
320 West 6th Street
Tustin, CA 92780
(714) 544-7711•(800) 546-7711
Fax (714) 544-4830
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.

(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, waterproof gloves, shoes plus 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	1/2
2	1
3	1-1/2
4	2

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.

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

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** concentration 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.

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.

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., wipe inside of glass with paper towel dampened with **PHYSAN 20** solution.

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

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** 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

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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

Controls 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.

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** 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**. 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.

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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 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)

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

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

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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

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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 begins. 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.

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** 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** 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.

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USE: 1 Tablespoon **PHYSAN 20** 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** 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 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.

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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!

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