PM 31 55364-5

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SEP 26 1996

Maril Products, Inc. 620 South B Street Suite A Tustin, CA 92680

Attention: James C. Swims

Vice President

Subject: PHYSAN 20

EPA Registration No. 55364-5

Your Amendment Dated March 18, 1996 EPA Received Date March 26, 1996

The amendment referred to above, sent in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to revise the product labeling in compliance with the Worker Protection Standard (WPS) as required under PR Notice 93-7, is acceptable.

The Agency has reviewed the proposed labeling and certification statement, and has determined that the labeling is consistent with the WPS text, it incorporates all required revisions under PR Notice 93-7, and is acceptable provided you make the following labeling changes before you release the product for shipment bearing the amended labeling:

- 1. Under the "DIRECTIONS FOR USE" revise the Application Restriction Statement to read "For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.".
- 2. The "Agricultural Use Requirements" Block should be revised and reformatted:
- a. Distinguish this Block from the surrounding text by creating a clearly separate box on the product labeling; with lines or other graphic indicators.
- b. Delete the quotation marks (") around the heading "Agricultural Use Requirements", and at the end of the second sentence.

	CONCURRENCES	
SYMBOL 7505C 7505C		
SURNAME DAVIAGE MALL		
DATE 1.9/20/96 9/2 /96		
EPA Form 1329-1A (1/90)	Printed on Recycled Paper	OFFICIAL FILE COPY

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- c. Increase the typesize of the heading to 10 points and print in block letters "AGRICULTURAL USE REQUIREMENTS".
- d. Revise the second sentence to read 'Refer to "INSERT #1" supplemental labeling under "AGRICULTURAL USE REQUIREMENTS" in the Directions for Use section for information about this standard.'.
- 3. At the end of the "DIRECTIONS FOR USE" Section, revise the sentence 'For additional applications on plants, refer to "Insert #1".' to read, in bold block letters, 'FOR ADDITIONAL USE APPLICATIONS, INCLUDING USE ON PLANTS, REFER TO "INSERT #1".'.
- 4. Remove from the "PRECAUTIONARY STATEMENTS" Section two WPS sentences pertaining to restricted entry and early entry to treated areas: "Do not enter or allow worker entry..." and "PPE required for early entry...". These are Agricultural Use Requirements statements which you have already covered in the "INSERT #1" supplemental labeling. If you wish to duplicate these statements on the product label, place these two sentences within the side panel "AGRICULTURAL USE REQUIREMENTS" Block.
- 5. Revise the "Personal Protective Equipment:" heading to read "Personal Protective Equipment (PPE):" on the product label.
- 6. The "User Safety Recommendations:" Block should be revised and reformatted:
- a. Distinguish this Block from the surrounding text by creating a clearly separate box on the product labeling; with lines or other graphic indicators.
- b. Revise "The wash thoroughly..." to read "Then wash thoroughly...".
- c. Revise "Wash the outside of gloves Before removing." to read "Wash the outside of gloves before removing.".
- d. Revise "As soon as possible wash thoroughly and change into clean clothing." to read "As soon as possible, wash thoroughly and change into clean clothing."
- 7. In "INSERT #1", on page 1, place above the heading "AGRICULTURAL USE REQUIREMENTS" the words "Directions For Use".
- 8. Also in "INSERT #1", on page 1, delete the "Personal Protective Equipment:" and "User Safety Recommendations:" text from the "AGRICULTURAL USE REQUIREMENTS" Section. These are Precautionary Statements which you have already covered on the product label. If you wish to duplicate these statements in "INSERT #1", then do so under a "PRECAUTIONARY STATEMENTS" heading and include all Precautionary Statements as listed on the product label.

A stamped copy of the PHYSAN 20 product labeling (label and insert) is enclosed for your records. Submit one (1) copy of the revised final printed labeling before you release the product for shipment.

If you have any questions concerning this letter, please contact Doreen Aviado of my staff at (703) 305-6554.

Sincerely

Marion J. Johnson, Jr.

Product Manager (31)

Antimicrobial Program Branch Registration Division (7505C)

Enclosure

ACCEPTED with COMMENTS in EPA Letter Dated: SEP 26 1996

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

55364-5

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Keep out of reach of children, Corrosive, Causes severe eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear googles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food. Remove and wastr contaminated slothing:

Do not enter or allow worker entry into the treated areas during restricted entry interval (REI) of a hours.

PPE required for early coury to treated seess that is permitted under the Worker Protection Standard and that involves courses with snything that has been treated, such as plants, soll, or water is: coveralls, waterproof gloves, aboes plus socks and protective systwar. Personal Protective Equipment:

Applicators and other handlers (other than mixers and loaders) must weer: Long-sleeved shirt and long panes, waterproof gloves, shoes plus, socks and protective eyewest.

Discard clothing and other absorbers materials that have been demoched of heavily agreement with this product's concernsus. Do not reuse them, Follow manufacturer's instructions for cleanings/maintaining PFE, if on such instructions for washables, use desergent and hot water. Keep and wash PPE separately from other laundry.

User Safery Racommendations:

Users should:

- Wash bands before eating, drinking, chewing gum, using tobacco or using the tollet.
- Remove clothing introducely if penickle gets inside. The wash shoroughly and put on clean clothing.
 Remove PPE immediately after handling this product. Wash the outside of gloves
- Remove PPE immediately after handling this product. Wash the outside of glover Before removing. As soon as possible wash thoroughly and change into clean closhing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this product into takes, 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 sawage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not store on side. Do not reuse empty container.

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 DISPOSAL

Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and local authorities by burning. If burned, stay out of smoke.



Manufactured By:

MARIL PRODUCTS, INC.

620 South B Street, Sulle A, Tustin, CA 92880 • (714) 644-7711



GREENHOUSE DISINFECTANT



 n-alkyl (60% Cu, 30% Cu, 5% Cu, 5% Cu) dimethyl benzyl ammonium chloride
 10%

 n-alkyl (68% Cu, 32% Cu) dimethyl ethylbenzyl ammonium chloride
 10%

 INERT INGREDIENTS:
 80%

 10%
 10%

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.)

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician, Remove and wash contaminated clothing before reuse. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or—If these are not available—drink large quantities of water. Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of castric lavage.

See left panel for additional precautionary statements.

EPA Est. /40873 GA-01 NET CONTENTS 32 FL. OZ. (1 QT.) EPA Reg. /55364-5

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 requirement 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 supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard."

PHYSAN 20 is a general Bactericide, Fungicide, Virucide and Algaecide for hard inanimate non-porous surfaces. It will help to control cross-contamination of fungal, bacterial and viral plant pathogens and algae. PHYSAN 20 has been designed for 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.

Apply PHYSAN 20 to floors, walls, benches, tools, pots, and flats with a cloth, mop, mechanical device or by immersion so as to thoroughly wet all surfaces. All hard non-porous inanimate surfaces must remain thoroughly wet for ten 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 once (one lablespoon) PHYSAN 20 per one pallon of water. The activity of PHYSAN 20 has been evaluated and found to be effective in reducing the spread of bacterial, lungal and viral organisms such as:

- · Pseudomonas calllevae causes crown rol on Orchids
- · Erwina cyppripedil causes brown rot on Orchids'
- · Erwina caratovora · causes solt rot on Orchids
- Agrobacterium lumefaciens causes crown gall on Orchids, Roses and Crape Myrtle
- Enterobacter applomerans causes brown spot on Orchids, Roses and Crape Myrile
- Botrytts cinerea causes petal blight on Orchids, Roses and Crape Myrite

Not intended for use in greenhouses where food crops are grown. For additional applications on plants, refer to "Insert of 1"

"NOT APPROVED FOR USE ON PLANTS IN CALIFORNIA"

ACCEPTED
with COMMENTS
in EPA Letter Dated:
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Under the Federal Insecticide, Fungicide, and Rodensicide Act as amended, for the pesticide registered under EPA Reg. No.

55364-5



DISINFECTANT•SANITIZER•DEODORIZER
FUNGICIDE•ALGAECIDE
VIRUCIDE

INSERT #1

EPA REG. #55364-5



MARIL PRODUCTS, INC.

620 South B Street, Suite A, Tustin, California 92680 (714) 544-7711

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 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 the treated areas during restricted entry interval (REI) of 4 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.

Personal Protective Equipment:

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:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

 ACCEPTED

with COMMENTS in EPA Letter Dated:

SEP 26 1996

Under the Federal Insecticide, Fungicide, and Rodensicide Act as 1 amended, for the pesticide registered under EPA Reg. No.

USAGE CONVERSION TABLE

TABLESPOONS		- COUNCES - TEST
2	1	1/2
y 90	2	1
ત્રાએ એ	3	1 1/2
, , ,	4	. 2

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

with COMMENTS
in FPA Letter Dated:

SEP 26 1996

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

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 - 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.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

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

SFP 26 1006 Under the Federal insections, Fungicide, and Rodensicide Act as amended, for the pesticide registered under EPA Reg. No.

Disinfecting Cutting Tools

Soak cutting edge of tool for 10 minutes in **PHYSAN 20** solution before use to 55364-5 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 in 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 I gallon of water

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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.

ACCEPTED with COMMENTS in EPA Letter Dated:

USE: 1 teaspoon PHYSAN 20 concentrate in 1 gallon of water. BIRD BATHS/SWIMMING POOLS/FOUNTAINS Algae Control for Bird Baths

SEP 26 1996

DO NOT USE WITH FISH!

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 55364-5

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 of PHYSAN 20 concentrate in 2 gallons of water to clean.

Algae Control - Swimming Pools

Initial does should be 2 quarts PHYSAN 20 per 50,000 gallons of water (or 13 ounces per 10,000 gallons of water) followed by cleaning out settled algae next day and retreatment at the same dosage. This is repeated until the pool is clear of visible algae. Then 1 pint of PHYSAN 20 per 50,000 gallons of water (or 3 1/5 ounces per 10,000 gallons of water) is used every 5-7 days to maintain control. Apply Physan 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 foreighn 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.

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 PHYSAN 20 concentrate in 1 gallon of water. Plant in compost completely saturated in PHYSAN 20 solution.

USE: 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.

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 of 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 diesease 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.

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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.

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.

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

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.

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Under the Federal Insecticide, Fungicide, and Rodensicide Act as amended, for the pesticide registered under EPA Rea. No.

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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 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.

Calendulas, China Asters, Chrysanthernums, 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.

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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.

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. 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 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.

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in EPA Letter [1]

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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.

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.

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.

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.

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

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!

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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under FDA Fig. No.