

SWIMMING POOL ALGAE CONTROL

Initial dose 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 20 along edges of the pool

After adding the PHYSAN 20 wait 30 minutes before using the pool to allow the 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.

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 goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food. Remove and wash contaminated clothing.

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.

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 waste 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.

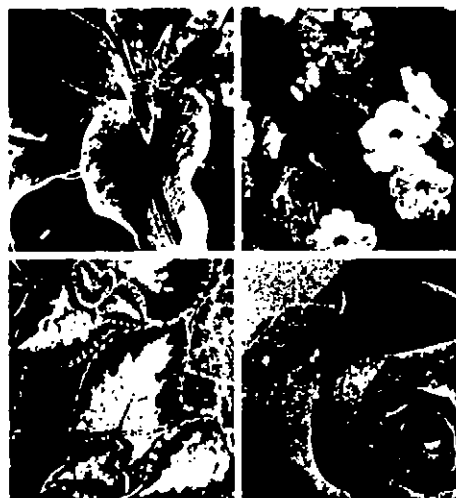
620 South B Street, Suite A, Tustin, CA 92680 • (714) 544-7711



GREENHOUSE DISINFECTANT

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ACTIVE INGREDIENTS:

1,2-Dichloro-4,4'-oxybis(2-chlorobenzene) 33% 1.32%
2,2,4,4-Tetrachloro-1,3-bis(4-chlorophenyl)butane 1.5%

INERT INGREDIENTS:

8.68%
1.5%

KEEP OUT OF REACH OF CHILDREN DANGER

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 gastric lavage.

See left panel for additional precautionary statements.

EPA Est. #44873 CA 01 NET CONTENTS 16 FL. OZ. (1 PT.) 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.

PHYSAN 20 is a general Bactericide, Fungicide, Virucide and Algaecide for hard inanimate non-porous surfaces. It will help to control or prevent 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 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:

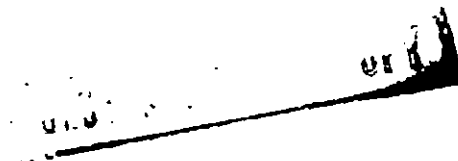
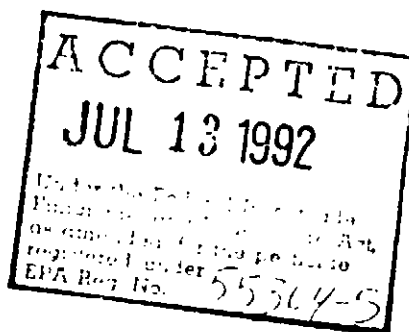
- *Pseudomonas callistae* - causes crown rot on Orchids
- *Erwinia cypripedii* - causes brown rot on Orchids
- *Erwinia carotovora* - causes soft rot on Orchids
- *Agrobacterium tumefaciens* - causes crown gall on Orchids, Roses and Grape Myrtle
- *Enterobacter agglomerans* - causes brown spot on Orchids, Roses and Grape Myrtle
- *Botrytis cinerea* - causes petal blight on Orchids, Roses and Grape Myrtle
- Tobacco mosaic virus - attacks Orchids, Roses and Grape Myrtle

ALGAE CONTROL

On greenhouse glass - spray or swab surfaces with one teaspoon PHYSAN 20 solution per one gallon of water. 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.

On walkways - for heavy algae growth spray or swab one tablespoon of PHYSAN 20 per gallon of water solution. Let stand for one hour or more or until the algae visibly begins to change to a lighter color. Brush and wash away dead algae. Soak area again in PHYSAN 20 solution. Do not rinse. This product will inhibit the growth of algae on walkways. Allow to dry on surfaces and repeat application when algae growth returns.


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





DISINFECTANT • SANITIZER • DEODORIZER
FUNGICIDE • ALGAEICIDE
VIRUCIDE

ACCEPTED
JUL 13 1992
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
registered under the pesticide
EPA Reg. No. **55364-5**
#1
EPA Reg. No. **55364-5**

The EPA logo, consisting of a stylized archway with vertical lines underneath.

MAKIL PRODUCTS, INC.

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

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 root rot, crown rot, botrytis, downy mildew, etc. USE: 1 tbsp. PHYSAN 20 concentrate in 1 gallon 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 root rot and crown rot, anthracnose, mildew, rusts and blight. USE: 1 tbsp. PHYSAN 20 concentrate in 1 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 stem rot and root rot, Tobacco Mosaic Virus (TMV) and botrytis. Use wet tool on plants. Dry and oil tools at the end of work. USE: 1 tsp. PHYSAN 20 concentrate in 1 quart of water.

Algae Control for "Bird Baths"

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 dead algae.

USE: 1 fl. oz. PHYSAN 20 concentrate in 2 gallons of water for cleaning.

Seeds and Seedlings - Damping Off

To reduce damping off problems: Treat seeds and seedlings by soaking a solution of 1 1/2 tsp. of PHYSAN 20 concentrate in 1 gallon of water for 5 minutes. Fill the flask containing the seeds 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)

To reduce damping off problems: Soak seedlings in PHYSAN 20 for 5 minutes. Make a solution of 1 1/2 tsp. of PHYSAN 20 concentrate in 1 gallon of water. 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 ½ tsp. 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: 1 fl. oz. 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: 1 fl. oz. of PHYSAN 20 concentrate in 3 gallons of water.

Plant Cuttings

Begonia, Fuchsia, Geranium, Chrysanthemum, for controlling powdery mildew, crown gall and gray mold leaf spots. 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 tsp. PHYSAN 20 concentrate in 1 gallon of water.

Narcissus, Gladioli, Iris, Easter Lilies, Tulips, Daffodil, Hyacinth - BULBS

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 tbsp. PHYSAN 20 concentrate in 1 gallon of water.

Iris - Botrytis Leaf Spots

Circular spots, yellowish, then light brown with red border. Spray weekly while plants are growing. USE: 2 tsp. 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: 1 fl. oz. of PHYSAN 20 concentrate in 3 gallons of water.

279

Roses - Powdery Mildew, Rusts, Black Spot, 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 tsp. of PHYSAN 20 concentrate in 1 gallon 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 tsp. of PHYSAN 20 concentrate in 1 gallon of water.

Calendulas, China Asters, Lilac, Crepe Myrtle, Live Oak, Chrysanthemums, Dahlias - 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: 1 fl. oz. PHYSAN 20 concentrate in 3 gallons of water.

Cactus - Root Rot, Bacterial Leaf Spot, 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: 1 fl. oz. 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 tsp. 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: 1 fl. oz. of PHYSAN 20 concentrate in 3 gallons of water.

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Snapdragons - Phyllosticta Blight, Anthracnose, Powdery Mildew, Downy Mildew, Stem Rot, Rusts and Wilts
 Spray with PHYSAN 20 solution when symptoms appear. Spray upper and lower sides of leaves until thoroughly wet, every 7 to 10 days. Collect and burn the tops in the Fall. USE: 2 tsp. PHYSAN 20 concentrate in 1 gallon of water.

Carnations - Leaf Spots, Carnation Rust, Gray Mold Rot, Stem Rot, Canker Rot, Crown Rot and Root Rot
 For RUST, completely immerse cuttings in PHYSAN 20 solution before planting. For GRAY MOLD, apply PHYSAN 20 solution 1 to 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 tsp. of PHYSAN 20 concentrate in 1 gallon of water.

Cut Flowers - Bacterial Stem Plugging
Containers - Tubes - and Decorative Vases
 To eliminate stem plugging, which restricts uptake of water and controls 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 tsp. of PHYSAN 20 concentrate in 1 gallon of water.

Lawn - Grass - Dichondra - For Control of Certain Fungal Diseases and Rusts
 1 pt. of concentrate diluted treats 1,000 sq. ft. Control the following fungal disease (Sclerotium rolfsii, fading-Out, Dollar Spot, Rust, Leaf Spot, Fairy Ring, Toad Stools) and Algae. Spray with PHYSAN 20 solution at a rate of 5 gallons solution per 1,000 sq. ft. 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 stock. USE: 1 tbsp. 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: 1 fl. oz. PHYSAN 20 concentrate in 3 gallons of water.

Porative Coolers - Algae, Fungus, etc.
 Controls algae, slime forming fungi on

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cooler pads and certain fungal plant pathogens that may carry over in the cooler as well as bacterial odors. USE: 1 tsp. PHYSAN 20 concentrate in 15 gallons of water every other week.

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 tsp. PHYSAN 20 concentrate in 1 gallon of water.

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

Downy mildew primarily effects new growth with symptoms of soft decay of flowers, leaves or stems, followed by a covering of downy gray mold. Control of disease consists of quick removal of dead plant parts and application of PHYSAN 20 at the first signs of disease. For Rust, apply at 7 to 14 day intervals during wet periods starting in early Summer. For botrytis, spray buds and blooms lightly 2 to 3 times a week using a fine mist. Before shipping, dip spikes in PHYSAN 20 solution. USE: 2 tsp. of PHYSAN 20 concentrate in 1 gallon of water.

Ferns, Begonias and Gesneria (Corytholoma, Isoloma, Alopiactus,

episcia, trichosporum) - Leaf Spots, Gray Mold Bud Rot 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 1/4 of blossom petals have fallen. Spray again two weeks after petal fall. USE: 1 tsp. of PHYSAN 20 concentrate in 1 gallon of water.

Fuchsia, Gardenia, Geranium, Heliotrope - Gray Mold Bud Rot 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 tsp. of PHYSAN 20 concentrate in 1 gallon of water.

Kalanchoe, Crassula and Sedum - Root Rot and Crown Rot, Crown Gall

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 tsp. of PHYSAN 20 concentrate in 1 gallon of water.

Other Plant - Anthracnose on Leaves and Stems, Crown Gall on Stems

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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 tsp. of PHYSAN 20 concentrate in 1 gallon 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 tsp. of PHYSAN 20 concentrate in 1 gallon of water.

Flowering Dogwood (cornus florida) - Leaf Spots, Leaf Blights, Anthracnose
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: 1 fl. oz. of PHYSAN 20 concentrate in 3 gallons of water.

Lightly mist plants with PHYSAN 20 solution. USE: ¼ tsp. (scant) in 1 quart of water.

Trees (Sycamore, Ash, 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 sleeves are about ¾ grown. USE: 1 fl. oz. PHYSAN 20 concentrate in 3 gallons of water.

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 this twice. This product will inhibit the growth of algae on walkways. Allow

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9-29

to dry on surface and repeat application when algae growth returns. USE: 1 tbsp. PHYSAN 20 concentrate in 1 gallon 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: 1 1/2 fl. oz. of PHYSAN 20 concentrate in 2 gallons of water.

Saintpaulia (African Violets) - Gray Mold Rot (Botrytis), Bud Rot, Downy Mildew, Powdery Mildew, Root Rots and Crown 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 tbsp. PHYSAN 20 concentrate in 4 gallons of water.

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

ACCEPTED
JUL 13 1992
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 55364-5

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