HARD SURFACES/EXTERIORS

Algae-Walkways
For heavy infestation, spray or swab. Let stand for an hour or more. Brush and wash away dead algae. Sock 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 teaspoon 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.

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 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 if 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, Fusarium and Rots.

USE: 1 teaspoon 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., 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 of PHYSAN 20 concentrate in 2 gallons of water to clean.

Initial Dose: Add 1 teaspoon PHYSAN 20 concentrate per 52 gallons of water (1 fluid ounce PHYSAN 20 per 312 gallons of water) to achieve a concentration of 0.5 ppm.

Weekly Dose: Add 1 teaspoon 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 quarters PHYSAN 20 concentrate per 50,000 gallons of water (or 1/3 fluid ounces per 10,000 gallons of water) followed by a cleaning out of settled algae next day and reinstatement 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 1 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

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 hardheaded by keeping the stems in PHYSAN 20 solution.

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

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

TREES/LAWN/TURF GRASS

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 flowers begin to bloom; 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.

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

Lawn - Grass - Dichondra - for Control of Certain Fungal Diseases and Rusted

1 pint of concentrate diluted treats 4,000 square feet. Controls the following fungal diseases: Algea, Dollar Spot, Fading Out, Fairy Ring, Leaf Spot, Rust, Sclerotium Rot, Bean Streak. Spray with PHYSAN 20 solution at a rate of 5 gallons per 1,000
square feet of turf. Be sure all surfaces of grass are treated and the mix is thoroughly soaked with solution. When disease reappears, repeat application.

USE: 1 teaspoon 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 effects 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.

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

Begonias, Ferns and Gesneria (corytholoma, isoloma, allopiectus, episica, 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 blossoms petals have fallen. Spray when 3/4 of the blossom petals have fallen. Spray again two weeks after petal fall.

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

USE: 2 teaspoons 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 flowers open. Carefully collect and burn infected buds, blossoms, and stems.

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

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

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

Bulbs - Daffodil, Easter Lilies, Gladiolus, Hyacinth, Iris, Narcissus, and Tulips
Pre-storage and pre-planting treatments. Treat the bulbs and buds 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 cutting of underground parts by fungi and bacterial leaf spot or root 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 teaspoons 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, Chrysanthemums, Crape Myrtle, Dahlias, Lilies, Live Oak - Powdery Mildew
Spray with PHYSAN 20 solution when symptoms appear. Spray upper and lower surfaces 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.

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 teaspoons 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 cleanup 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 PHYSAN 20 concentrate in 1 gallon of water.

Iris - Botrytis, Crown Rot, Cane 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 teaspoons 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.

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 - Phaeolopsis
Spray plants weekly to assure solution getting around 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.
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. Repeat 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 rot not approved in the State of California.

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!
### INSERT # 1

**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 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 that involves contact with anything that has been treated, such as plant, soil or water is: coveralls, waterproof gloves, shoes plus socks and protective eyewear.

#### USAGE CONVERSION TABLE

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

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