

DISINFECTANT • SANITIZER • DEODORIZER • FUNGICIDE • ALGAECIDE • VIRUCIDE

INSERT #2

EPA REG. #55364-5

MARIL PRODUCTS, INC.

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INSERT # 2 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.

USAGE CONVERSION TABLE

TABLESPOONS	Millilitres
1	15
2	30
3	45
4	60

This chart illustrates tablespoons and their fluid millilitre 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 of PHYSAN 20 in 4 Litres of water.

Algae Control - Domestic Greenhouse Glass

Spray or swab surfaces. Let stand for 1 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 of PHYSAN 20 in 4 Litres 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 of PHYSAN 20 in 1 Litre of 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 in 8 Litres 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 of PHYSAN 20 in 4 Litres 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 e.t.c.

USE: 1 tablespoon of **PHYSAN 20** in 4 Litres of water.

ADULT PLANTS / HOUSE PLANTS House Plants

To control algae and cross contamination in terrariums, bubbles e.t.c. wipe inside of glass with paper towel dampened with **PHYSAN 20** solution.

USE: 1 teaspoon of PHYSAN 20 in 4 Litres of water.

Iris - Botrytis Leaf Spots

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

USE: 2 teaspoons of PHYSAN 20 in 4 Litres 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** in 8 Litres of water to clean.

Initial Dose: Add 1 teaspoon of **PHYSAN 20** concentrate per 200 Litres of water (30 ml of **PHYSAN 20** per 1,180 Litres of water) to achieve a concentration of 5 ppm.

Weekly Dose: Add 1 teaspoon of **PHYSAN 20** concentrate per 400 Litres of water each week to maintain a concentration of 2 - 3 ppm.

Algae Control - Swimming Pools

Initial dose should be 2 Litres of **PHYSAN 20** concentrate per 189,270 Litres of water (or 385 ml per 37,850 Litres of water) followed by cleaning out of settled algae the next day and retreatment at the same doseage. This is repeated until the pool is clear of visible algae. Then 1 pint of **PHYSAN 20** concentrate per 189,270 Litres of water (or 95 ml per 37,850 Litres 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.

SEEDS/SEEDLINGS/CUTFLOWERS

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.

USE: 1 teaspoon of PHYSAN 20 in 4 Litres 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 1½ teaspoons of **PHYSAN 20** concentrate in 4 Litres of water. Plant in compost completely saturated in **PHYSAN 20** solution.

USE: 1½ teapoons of PHYSAN 20 in 4 Litres of water.

Seeds and Seedlings - Damping Off

Treat seeds and seedlings by soaking in a solution of 1½ teaspoons of **PHYSAN 20** concentrate in 4 Litres of water for 5 minutes. Fill the flask containing the seed or seedlings with enough **PHYSAN 20** solution to completely cover the seeds / seedlings before planting. Use a fresh solution of **PHYSAN 20**

Oaks at bud break and again in April.

Seedlings - Damping Off (ornamental plants only)

Make a solution of 1½ teaspoons of **PHYSAN 20** concentrate in 4 Litres 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: 1½ teaspoons of PHYSAN 20 in 8 Litres 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** in 11 Litres of water or 2 teaspoons of **PHYSAN 20** in 4 Litres 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** in 11 Litres of water or 2 teaspoons of **PHYSAN 20** in 4 Litres 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 in 11 Litres of water.

Trees (Ash, Sycamore, e.t.c.) Anthracnose

Spray upper and underside of leaves and twigs until thoroughly wet. A large tree requires 190 - 230 Litres of spray per treatment for adequate coverage. Treat tree with 3 applications: as buds start to swell at the start of the season; then apply again as leaves start to expand; apply thirdly as leaves are about 3/4 grown.

USE: 2 tablespoons of **PHYSAN 20** in 11 Litres of water.

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

1 pint of **PHYSAN 20** concentrate diluted treats 600 square meters. Controls the following fungal diseases: Algae, Dollar Spot, Fading-Out, Fairy Ring, Leaf Spot, Rust, Sclerotium rolfsii and Toad stools. Spray with **PHYSAN 20** solution at a rate of 19 Litres solution per 100 square meters of turf. Be sure all surfaces or grass are treated and the area is throughly soaked with solution. When disease reappears, repeat application.

USE: 1 tablespoon of PHYSAN 20 in 4 Litres of water.

SPECIFIC PLANT APPLICATIONS Aucuba, Dahlia, Fuchsia, Geranium, Gladiolus, Peony, Pieros - 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 - 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 of PHYSAN 20 in 4 Litres of water.

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 essential in disease control. Spray **PHYSAN 20** solution before the buds open. Then spray again when blossom petals have fallen. Spray a third time when 3/4 of the blossom petals have fallen. Spray again 2 weeks after petal fall.

USE: 1 teaspoons of PHYSAN 20 in 14 Litres 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 tablespoons of PHYSAN 20 in 4 Litres 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 in 11 Litres of water.

Cactus - Slimy Collar Rot

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

USE: 2 teaspoons of PHYSAN 20 in 4 Litres of water.

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 2 weeks during mildew season. Also, spray Live for each flask.

USE: 2 tablespoons of PHYSAN 20 in 11 Litres 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 in 4 Litres 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 the **PHYSAN 20** solution is getting around and in the base of the leaves.

USE: 2 teaspoons of PHYSAN 20 in 4 Litres 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 in 4 Litres 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 start dropping. Make 3 spray application: 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 in 11 Litres of water.

Hawthorn, Hollyhock, Snapdragons - Rust

Spraying for protection should begin with the development of new leaves following Winter clean-up 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 Autumn. 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 in 4 Litres 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** in 11 Litres of water.

Orchids - Adult Plants

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

USE: 2 teaspoons of PHYSAN 20 per 4 Litres of water.

Orchids - Botrytis

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

USE: 1 teaspoon of PHYSAN 20 per 11 Litres of water.

Orchids - Crown Rot - Phaelenopsis

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

USE: 1 teaspoon of PHYSAN 20 per 4 Litres 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 for 2-5 minutes. Pot in compost dampened with **PHYSAN 20** solution.

USE: 1 tablespoon of PHYSAN 20 per 4 Litres of water.

Orchids - Rot (such as Erwinia)

Remove compost from plant, then soak entire plant 10 for minutes or more. Cut away all rot with treated tool. Soak plant wounds again for 10 minutes. Repot in **PHYSAN20** soaked compost.

USE: 1 tablespoon of PHYSAN 20 per 4 Litres 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 of **PHYSAN 20** in 11 Litres 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 in 4 Litres 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 4 Litres of water. This usage is for control of rust.

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 4 Litres 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 teaspoon of **PHYSAN 20** concentrate in 15 Litres 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 Autumn.

USE: 2 teaspoons of **PHYSAN 20** concentrate in 4 Litres of water.

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

