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AUG 29 1988

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

Attention: James Swins  
Vice President

Gentlemen:

Subject: Physan 20  
EPA Registration No. 55364-5  
Your Submission Dated April 21, 1988

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

1. Revise the statement:

". . . reducing the spread of disease, fungal . . ."

to read:

". . . reducing the spread of bacterial, fungal . . ."

2. Revise the statement:

". . . on walkways - for heavy infestation spray . . ."

to read:

". . . on walkways - for heavy algae growth spray . . ."

59768;I;Lee:L-8;KENCO;8/24/88;10/6/88;CB;PR;SG;CB

CONCURRENCES

SYMBOL	SURNAME	DATE					

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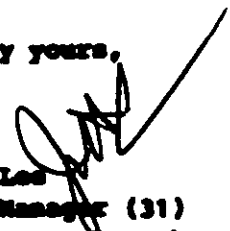
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Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

If you have any questions concerning this letter, contact Valdis Concarove at (703) 557-3663.

Sincerely yours,



John E. Lee  
Product Manager (31)  
Disinfectants Branch  
Registration Division (TS-767C)

Enclosure

Greenhouses. Refer to product bulletin #188, "PHYSAN 20 - General Greenhouse Disinfectant" to use PHYSAN 20 for control of plant pathogens and algae on environmental inanimate hard surfaces in greenhouses.

**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 clearing 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.

**PRECAUTIONARY STATEMENTS**  
HARMS TO HUMANS AND DOMESTIC ANIMALS

Keep out of the 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.

**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 residues 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 of 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 sanitary landfill, or incineration, or if allowed by state and local authorities by burning, if burned, stay out of smoke.

MARIL PRODUCTS, INC.  
(714) 844-7719



**DISINFECTANT • SANITIZER • DEODORIZER**  
**FUNGICIDE • ALGAEICIDE**

**ACTIVE INGREDIENTS:**

- n-alkyl (80% C<sub>14</sub>, 30% C<sub>16</sub>, 5% C<sub>12</sub>, 5% C<sub>18</sub>) dimethyl benzyl ammonium chloride ..... 10%
- n-alkyl (68% C<sub>12</sub>, 32% C<sub>14</sub>) dimethyl ethylbenzyl ammonium chloride ..... 10%

**INERT INGREDIENTS:** ..... 80%  
100%

PHYSAN 20 is a concentrate and must be diluted before using.  
**DANGER — KEEP OUT OF REACH OF CHILDREN**

**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. Measures against circulatory shock, respiration depression, and convulsion may be needed.

See left panel for additional precautionary statements.

EPA Est. #40873 CA-01  
EPA Reg. #55384-5

**NET CONTENTS**  
32 FL. OZ. (1 QT.)



**MARIL PRODUCTS, INC.**

620 South B Street, Suite A, Tustin, CA 92680

It is a... product is a...  
Rule #1: Pre-cleaning or Disinfectant  
Hospitals, Disinfecting PHYSAN 20 against feces in restrooms, floors, walls, telephones, etc. This solution kills animals like influenza, Acne, sores, fever, respiratory (smallpox).  
Household Sanitizing Solution in 4 gallons Mix 1 ounce After thorough floors, walls, schools, homes, offices, cars  
Food Processing Sanitizing Solution 4 gallons of thoroughly  
Dishes: Sanitizing Solution 4 gallons of thoroughly No final pot Follow recon

**BEST AVAILABLE COPY**

PHYSAN 20

In EPA Reg. No. 55364-5 Dated:

AUG 29 1980

GENERAL GREENHOUSE DISINFECTANT  
FOR CONTROL OF  
FUNGAL, BACTERIAL, ALGAL, &  
VIRAL PLANT PATHOGENS

Unit  
File  
No. 55364-5  
EPA

REFER TO LABEL ON  
BOTTLE FOR PRECAUTIONARY  
STORAGE & DISPOSAL STATEMENTS

EPA REG. NO. 55364-5

MARIL PRODUCTS, INC.  
620 S. "B" Street, Suite A  
TUSTIN, CA 92680  
(714) 544-7719

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It is a violation of Federal Law to use this product in a manner inconsistent with it's labeling.

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 used 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 disease, fungal and viral organisms such as:

- Pseudomonas cattleyae - causes crown rot on Orchids
- Erwinia cypripedii - causes brown rot on Orchids
- Erwinia carotovora - causes soft rot on Orchids
- Ptychogaster spp. - causes snow mold on Orchids
- Agrobacterium tumefaciens - causes crown gall on Orchids, Roses & Crape Myrtle
- Enterobacter agglomerans - causes brown spot on Orchids, Roses & Crape Myrtle
- Botrytis cinerea - causes petal blight on Orchids, Roses & Crape Myrtle
- Tobacco mosaic virus - attacks Orchids, Roses & Crape Myrtle

ACCEPTED  
WITH COMMENTS  
In EPA Label Draft  
55364-5  
AUG 29 1988

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 infestations spray or swab a one tablespoon of PHYSAN 20 per one 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.

Weight/gallon = 8.18 lbs./gallon