

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 53642-1	DATE OF ISSUANCE NOV 26 1986
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT R.D.-20 Greenhouse Disinfectant For Orchids	

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
 (Under the Federal Insecticide, Fungicide,
 and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(B) provided that you:

1. Submit/continue all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Make the following changes to the label before you release the product to the public:

1. Change the registration number to "53642-1."

2. Change the statement (from "..."):

... and viral organisms and their orders ...

to read:

... and viral plant pathogens and their orders ...

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
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- c. Revise the statement (2nd paragraph - right panel):

. . . bacterial and viral pathogens, bacterial . . .

to read:

. . . bacterial and viral plant pathogens, bacterial

- d. Delete the entire hand dip section.

Note: FDA not EPA has jurisdiction over products that are recommended for application to the human body. Therefore, the claim must be dropped from the EPA registered label.

- e. Revise the statement right panel:

. . . Treated walkways will remain algae free for several months . . . Repeat treatment at first indication of algae.

to read:

This product will inhibit the growth of algae on walkways. Allow to dry on surface and repeat application when algae growth returns.

- f. Revise the statement (right panel, overhead watering systems):

. . . water solution as a preventative program

to read:

. . . water solution as a control program.

- g. Revise the statement (right panel, bottom):

1 ounce = 2 TBSP

to read:

1 fluid ounce = 2 TBSP

- h. Revise the statement (front panel, 3rd paragraph):

Allow at least 10 minutes for disinfection .

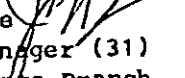
to read:

Preclean all surfaces prior to application of disinfectant solution. All inanimate surfaces must be thoroughly wetted and remain wet for 10 minutes for disinfection. Fresh solution should be prepared daily and when use solution becomes visibly dirty.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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


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

Enclosures

4.5.1

ACCEPTED
WITH COMMENTS
in EPA Label Draft

NOV 26 1986

53642-1

Front Panel

R.D.-20
GREENHOUSE DISINFECTANT FOR ORCHIDS
For Use Against Fungal, Bacterial, Algal
and Viral Organisms and Their Odors

Stable--Mixes Readily with Water
Does Not Separate--A Good Wetting Agent
Leaves no Residual Marks on Foliage.

R.D.-20 is a Concentrate and
Must be Diluted Before Using

Active Ingredients:		
n-Alkyl(60%C ₁₄ , 30%C ₁₆ , 5%C ₁₂ , 5%C ₁₈) dimethyl benzyl ammonium chloride		10%
n-Alkyl(68%C ₁₂ , 32%C ₁₄) dimethyl ethylbenzyl ammonium chloride		10%
Inert Ingredients:		80%
	Total	100%

EPA Reg. No. 53642-

EPA Est. No. 53642-CA-1

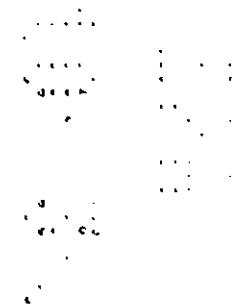
KEEP OUT OF REACH OF CHILDREN (12 pt)

DANGER (18 pt)

See Side Panel for Additional Precautionary Statements

Net 1 gal.

R.D.Associates
PO Box 4068
Whittier, CA 90607



Left Panel

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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

53642-1

DANGER

(18 pt)

Corrosive. Harmful or fatal if swallowed. 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. Avoid contamination of food. Remove and wash contaminated clothing.

Statement of Practical Treatment

- If swallowed: Drink milk, egg whites, gelatin solution or, if these are not available, drink large quantities of water. Call a physician.
- If on skin: Flush skin with plenty of water for at least 15 minutes.
- If in eyes: Flush eyes with plenty of water for 15 minutes and call a physician.
- If on clothing: Remove and wash all contaminated clothing before reuse.
- Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depressions and convulsions may be needed.

Storage and Disposal

(12 pt)

Do not contaminate water, food or feed by storage or disposal.

Open Dumping is Prohibited.
Do Not Reuse Empty Container.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: 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.

Right Panel

NOV 25 1986

United States
EPA
Pesticide Act
to manufacture, distribute, purchase,
registered under EPA Reg. No.
53642-1

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

R.D.-20 is a general disinfectant. It will help to control fungal, bacterial and viral pathogens, bacterial and fungal leaf rots, slime forming fungi, odor-causing bacteria and algae.

R.D.-20 Greenhouse Disinfectant has been designed specifically for greenhouses and home use where cross contamination may occur between plants. Remove gross filth or heavy soil prior to disinfection. Allow at least 10 minutes for disinfection.

Use R.D.-20 in an Overall Program

Work Area and Benches: Use 1 tbsp. R.D.-20 per gallon of water. Spray or swab working surfaces before each work period. Again, after each plant is completed, to help control transfer of such diseases as Botrytis Petal Blight, Erwinia and Phalaenopsis. At end of work, dry and oil tools.

Pots and Flats: Used pots and flats should be brushed or washed, then soak in 1 tbsp. R.D.-20 per gallon of water for 10 minutes before using to help control transfer of such diseases as Botrytis, Petal Blight, Erwinia and Phalaenopsis. At end of work, dry and oil tools.

Cutting Tools: Soak cutting edge of tool for 10 minutes in 1 tbsp. R.D.-20 per gallon of water before use to help control transfer of such diseases as Botrytis Petal Blight, Erwinia and Phalaenopsis. At end of work, dry and oil tools.

Personnel Handling Plants: Dip hands in a solution of 1 tbsp. R.D.-20 per gallon of water before handling plants or anything connected with the plants. Good idea to have a container of R.D.-20 solution always available as a hand dip. Allow to air dry.

Seedlings: From flask, soak seedlings 2-5 minutes before potting to remove agar. Helps prevent damping-off which may be caused by Pythium debaryanum, Fusarium sp. or Rhizopus negricans. To help control these organisms spray seedling once per month as preventative maintenance. Spray anytime disease is evident.

Use 1½ tsp. R.D.-20 per gallon of water

Adult Plants: Spray anytime other than rot (see below) is evident with a solution of 2 tsp. R.D.-20 per gallon of water. Spray once per month as preventative maintenance. Drench compost when fungus is evident.

Right Panel (cont)

Dividing Plants: Remove compost, then soak plant for 2-5 minutes in 1 Tbsp. R.D.-20 solution per gallon water. Operate with wet hands and cutting tools (see above). After division and root trim soak divisions in 1 Tbsp. F.D.-20 solution per 1 gallon water for 2-5 minutes. Pot in compost drenched with R.D.-20 solution.

Algae: Greenhouse Glass: Spray or swab surfaces with 1 tsp. R.D.-20 solution per 1 gallon water. Wash off dead algae with water. Spray clean surfaces again with the R.D.-20 solution.

Algae: Walkways: For heavy infestation, spray or swab a 1 Tbsp. of R.D.-20 per 1 gallon of water solution. Let stand for an hour or more. Brush and wash away dead algae. Soak area again with the R.D.-20 solution. Do Not Rinse. Treated walkways will remain algae free for several months. Repeat treatment at first indication of algae.

Botrytis Petal Blight: During cool weather spray plants, flowers and under benches at first sign of spotting on flowers. Normally weekly spray will greatly reduce or eliminate the botrytis spotting. Use 1 tsp. R.D.-20 per 3 gallons of water.

Cut Flowers: Containers, tubes and decorative vases. Recommend flower spikes be hardened in 1 tsp. R.D.-20 per gallon of water solution during harvesting, storage and shipping to help control transfer of such diseases as Botrytis Petal Blight, Erwinia and Phalaenopsis.

Rots (Such as Erwinia et al.): Remove compost from plant, then soak entire plant 10 minutes or more in 1 tbsp. R.D.-20 per gallon of water. Cut away all rot with treated tool. Soak plant wounds again for 10 minutes in R.D.-20 solution. Repot in R.D.-20 drenched compost.

Crown Rot (Phalsenopsis): Spray plants weekly to assure solution getting around and in base of leaves with 2 tsp. R.D.-20 per gallon of water.

Overhead Watering Systems: During last 2-3 minutes of watering use 1 oz. R.D.-20 per 20 gallons of water solution as a preventive program. Due to variations of growing conditions use R.D.-20 solution every second to fourth watering. Will control algae in nozzles.

Evaporative Coolers: Controls algae, slime forming fungi on cooler pads and certain fungal pathogens of orchids that may carry over in the cooler as well as bacterial odors. Use: 1 tsp. R.D.-20 per 15 gallons of water every other week.

1 OUNCE = 2 TBSP. (OR 6 TSP.)

53642-1
NOV 23 1966

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