KleenGrow™
Algicide • Fungicide • Bactericide • Disinfectant • Viricide

- For controlling Fungal and Bacterial plant pathogens on Ornamentals, Potted Plants, Cut Flowers, Nursery Stock in Greenhouses and in Irrigation Lines.
- For Use as a Cleaner, General Disinfectant and for Microbial Control on Hard, Non-Porous Surfaces in Greenhouses, Storage Barns and Coolers.

Active Ingredients:
Didymyl dimethyl ammonium chloride ........................................... 7.5%
Other Ingredients ........................................................................... 92.5%
TOTAL ....................................................................................... 100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER

FIRST AID
If in Eyes
- Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for further treatment advice.

If on Skin, Clothes
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 - 20 minutes.
- Call a poison control center or doctor for treatment advice.

If Swallowed
- Call a poison control center or doctor immediately for treatment advice.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN
Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER. Corrosive. Causes irreversible eye damage. Causes skin burns. Do not get in eyes, on skin or on clothing. Harmful if swallowed or absorbed through the skin. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)
Applicators and other handlers must wear protective eyewear, long pants and long-sleeved shirt, shoes plus socks and chemical resistant gloves. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse them. Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations: Users should wash hands before drinking, eating, chewing gum, using tobacco or using the toilet. Remove PPE clothing immediately if the pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS
This product is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local 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.
Pesticide Storage: Do not store on side. Avoid creasing or impacting of side walls.
Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinseate 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 Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Follow pesticide disposal instructions for rinseate. Drain for 10 seconds after the flow begins to drip. Repeat this
procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, if, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a manner that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

This product is only used in accordance with the labeling and the Worker Protection Standard, 40 CFR 170. This standard contains requirements for the protection of agricultural workers on farms, forest, nurseries and greenhouses and to the 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 the label about personal protective equipment (PPE), restricted-entry interval and notification to workers. The requirements in this box only apply to the use of this product in areas covered by the Worker Protection Standard. (Note: The REI does not apply to hard surface or irrigation lines.)

Do not enter or allow workers into treated areas during the restricted-entry interval (REI) of 48 hours. The REI is not required when using the product for end of season irrigation lining and root control.

For early entry into treated area permitted under the Worker Protection Standard and is involved with contact with anything that has been treated, such as plants, soil, or water, coveralls, chemical resistant gloves, shoe socks and protective eye wear.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

**DISINFECTION OF HARD, NON-POUROUS SURFACES:**

Use 1 fl oz. of KleenGrow™ per gallon of water. Apply solution with a cloth, mop, sponge, coarse spray device or by immersion to previously cleaned and thoroughly cleaned surfaces until surfaces are thoroughly wet. Treated surfaces must remain wet for 10 minutes. Wipe dry with a clean cloth or sponge or allow to air dry. Prepare a fresh solution daily or more often if solution becomes visibly dulled or soiled.

**Disinfection of Packing Facility and Equipment**

Remove debris and thoroughly clean all surfaces of packing equipment with soap and detergent and rinse with water. Saturate all surfaces with a solution of 1 fl oz. of KleenGrow™ per gallon of water for 10 minutes. Wipe dry with a clean cloth or sponge or allow to air dry. Ventilate closed spaces.

**Disinfection of Trucks and Transportation Equipment**

Remove debris and thoroughly clean all surfaces of trucks and other transportation equipment with soap and detergent and rinse with water. Saturate all surfaces with a solution of 1 fl oz. of KleenGrow™ per gallon of water for 10 minutes. Wipe dry with a clean cloth or sponge or allow to air dry. Ventilate closed spaces.

**GENERAL CLEANING AND MICROBIAL CONTROL:**

**Pythium Control in Irrigation Systems - End of Season**

1. Rinse irrigation lines of debris prior to disinfection by filling them with a 1.25 fl oz. of **CYPREX 49**, 2.2% Strip-IT™ per gallon of water.

2. Allow Strip-IT™ to sit for 12 hours before flushing with clean water.

3. Fill irrigation system with KleenGrow™ at 0.5 fl oz. of per gallon of water and allow solution to sit for at least 10 minutes.

4. Drain lines thoroughly, allow to air dry and then recharge with nutrient solution.

**Shoebath**

Prepare a solution of KleenGrow™ at a dilution of 1.0 - 2.0 fl oz. per gallon of water. Pour this solution into a shoe-bath to a depth of 1" or 1" or a foot mat at the top of the rings. Check shoebath frequently with Quaternary Ammonium Chloride (QAC) test strips, to ensure the rate is 600 ppm (1.0 fl oz. per gallon of water) or above. Add additional KleenGrow™ solution as necessary to keep a 1.0 at proper levels or change the solution if it appears visibly diluted or soiled. First clean shoes or boots of all debris by scrubbing.

To Wash Footwear: Place in shoe-bath for at least 30 seconds.

**Tools, Cutters and Equipment**

Thoroughly wash all tools, cutters and small equipment with soap and detergent and rinse with water. Saturate all surfaces with a solution of 0.5 fl oz. of KleenGrow™ per gallon of water for 10 minutes. Wipe dry with a clean cloth or sponge or allow to air dry.

**Algae Removal from Walls, Benches, Floors, Walkways, Pans and Workways**

Thoroughly clean all walls, benches, or floors with soap and detergent and rinse with water. Saturate all surfaces with a solution of 0.125 to 0.25 fl oz. of KleenGrow™ per gallon of water for 10 minutes. Wipe dry with a clean cloth or sponge or allow to air dry. Ventilate closed spaces. Reapply KleenGrow™ every 14 days to keep algae from returning. Soap or detergent is not necessary with reaplication of KleenGrow™.

**Algae, Fungus and Detergent Control in Evaporative Cooling Pads**

Add 0.03 to 0.25 fl oz. of KleenGrow™ per gallon of water to evaporative cooling pad system once a month to control disease and algae buildup.

**CONTROL OF FUNGAL AND BACTERIAL DISEASES ON ORNAMENTAL CROPS:**

Do not apply to fruits or vegetables or other food crops. This product is to be used in greenhouses and not outdoors. Do not spray directly or vegetables and crops. Do not apply to tools or equipment that will contact food.

**Botrytis**

Powdery Mildew, Grey Mold, Fusarium, Xanthomonas, Thielaviopsis, Fungal and Bacterial Leaf Spots and Blights - Foliar Spray

Apply KleenGrow™ at 0.06 to 0.38 fl oz. per gallon of water (35 to 280 ppm a.i.) every 14 days. Apply KleenGrow™ with a direct spray every 14 days to prevent the spread of spores and the build-up of organic material. Severely infected plants should be removed and the area disinfected with 1.0 fl oz. KleenGrow™ per gallon of water.

**Botrytis Control - Fogging in Coolers**

(Not to be used on feed crops within coolers or vegetable greenhouse applications)

Use fogging equipment to control conditions on all crops in coolers or greenhouse applications.

**Heat Rolls - Thielaviopsis, Pythium, Rhizoctonia, Phytophthora**

- Preventative Drench

Apply KleenGrow™ by injecting 0.06 to 0.30 fl oz. per gallon of water (35 to 300 ppm a.i.) once each 14 days, making sure that the root zone is completely wet with solution. KleenGrow™ drench can be done with fertilizer injectors, automatic drenching pumps or for smaller operations, by hand using protective gloves.

**Seed, Bulb, and Corn Rota Dip (pre-planting)**

- Botrytis, Rhizoctonia, Fusarium, Penicillium, Erwinia, Pseudomonas

For control of Botrytis, Rhizoctonia, Fusarium and Penicillium bulb rots and other fungal and bacterial diseases of tulips, narcissus, gladiolus, crocus, dahlia, freesia, iris, lily, daylily, amaryllis, hyacinth, iris, silla and ornamental onion. Immerse bare and bulbs in a solution of 0.15 to 1.5 fl oz. KleenGrow™ per gallon of water (35 to 300 ppm a.i.) for 30 sec. Remove from solution and allow to drain prior to planting or storage. Test solution regularly using QAC test strips, (La Motte #2949-5 or equivalent). Add KleenGrow™ when necessary, to maintain a 1.0 concentration between 90 and 900 ppm.

**NOTE:** KleenGrow™ may be phytotoxic to some ornamental plants and phytophthora may develop after repeated applications in a short time interval. A test spray or drench is recommended before treating the entire crop, especially when using the higher concentration. Use with caution on young seedings or tender young growth.

EPA Registration No. B8120-2
EPA Establishment No. 50782-0H-01
NET CONTENTS: 1 gallon (3.78 liters)

**PACE 49 Inc.**

8321 Willard Street, Burnaby, B.C. V3N 2X3
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