

# KleenGrow™

## Algicide • Fungicide • Bactericide • Disinfectant • Virucide

- 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 Ingredient:

Didecyl dimethyl ammonium chloride .....	7.5%
Other Ingredients .....	92.5%
TOTAL .....	100.0%

## KEEP OUT OF REACH OF CHILDREN DANGER

### FIRST AID

If in Eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If on Skin, Clothes	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If Swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p><b>NOTE TO PHYSICIAN</b></p>	
<p>Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

## 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 using tobacco or using the toilet. 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 Requirements:** 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 rinsate 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 rinsate. 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, 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 use in greenhouses where food crops are grown. For treatment of ornamentals in greenhouses only. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its 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 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 this label about personal protective equipment (PPE), restricted-entry interval and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. (Note: The REI does not apply to hard surface or irrigation lines.)

Do not enter or allow worker entry 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 line cleaning and microbial control.

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

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

### DISINFECTION OF HARD, NON-POROUS 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 hard nonporous 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 diluted or soiled.

#### Disinfection of Packing Facility and Equipment

Remove debris and thoroughly clean all surfaces of packing equipment with soap or 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. If treated surfaces will contact food, thoroughly rinse surfaces with potable water.

#### Disinfection of Trucks and Transportation Equipment

Remove debris and thoroughly clean all surfaces of trucks and other transportation equipment with soap or 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. If treated surfaces will contact food, thoroughly rinse surfaces with potable water.

### GENERAL CLEANING AND MICROBIAL CONTROL:

#### Pythium Control in Irrigation Systems - "End of Season"

1. Rinse irrigation lines of debris prior to cleaning by filling them with a 1.25 fl. oz. of **PACE 49 Inc. STRIP-IT™** per gallon of water.
2. Allow **STRIP-IT™** to sit for up to 12 hours before flushing with clean water.
3. Fill irrigation system with KleenGrow™ at 0.5 fl. oz. 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 nutrients solution.

#### Shoebaths

Prepare a solution of KleenGrow™ at a dilution of 1.0 - 2.0 fl. oz. per gallon of water. Pour this solution into a shoebath to a depth of ½" to 1" or on a foot mat to the top of the ribs. Check shoebath frequently with Quaternary Ammonium Chloride (QAC) test strips, to ensure rate is 600 ppm (1.0 fl. oz. per gallon of water) or above. Add additional KleenGrow™ solution as necessary to keep a.i. at proper levels or change the solution if it appears visibly diluted or soiled. First clean shoes or boots of all debris by scraping. To Wash Footwear: Place in shoebath for at least 30 seconds.

#### Tools, Cutters and Equipment

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

#### Algae Removal from Walls, Benches, Floors, Walkways and Workways

Thoroughly wash all walls, benches, or floors with soap or 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. Re-apply KleenGrow™ every 14 days to keep algae from returning; soap or detergent is not necessary with reapplication of KleenGrow™ unless surfaces are heavily soiled.

### Algae, Fungus and Odor 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 on fruits and vegetables. Do not apply to tools or equipment that will contact food.

#### Botrytis, Powdery Mildew, Downy Mildew, Fusarium, Xanthomonas, Thielaviopsis, Fungal and Bacterial Leaf Spots and Blights for Ornamental Plants, Nursery Stock and Bare Root Cuttings - Foliar Spray

Apply KleenGrow™ starting at Week 3 or earlier if conditions are favorable for disease. Use a watering device to srench the top and bottom of the leaves and stems, avoiding flowers in full bloom, at a rate of 0.06 to 0.38 fl. oz. per gallon of water (35 to 230 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. Remove severely infected plants and disinfect the area with 1.0 fl. oz. KleenGrow™ per gallon of water.

#### Botrytis Control for Ornamental Plants - Fogging in Coolers (Not to be used on food crops within coolers or vegetable greenhouse applications)

Use fogging equipment to control botrytis on cut flowers and potted plants in coolers with a rate of 0.25 - 0.50 oz. per gallon of water.

#### Root Rots - Thielaviopsis, Pythium, Rhizoctonia, Phytophthora - Preventative Drench

Apply KleenGrow™ by injecting 0.06 to 0.5 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 injector pumps, automatic dosing pumps or for smaller operations, by hand using protective gloves.

#### Seed, Bulb and Corm Rots 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 tulip, narcissus, gladiolus, crocus, dahlia, freesia, iris, lily, daylily, amaryllis, hyacinth, iris, scilla and ornamental onion. Immerse both crate and bulbs in a solution of 0.15 to 1.5 fl. oz. KleenGrow™ per gallon of water (90 to 900 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-BJ or equivalent). Add KleenGrow™ when necessary, to maintain an a.i. concentration between 90 and 900 ppm.

**NOTE:** KleenGrow™ may be phytotoxic to some ornamental plants and phytotoxicity 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 seedlings or tender young growth.

EPA Registration No. 81820-2 EPA Establishment No. 49292-WA-01

**NET CONTENTS: 5 gallons (18.9 liters)**

**PACE 49 Inc.**

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