



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number: 81820-2

Date of Issuance: FEB 12 2007

Term of Issuance: Conditional

Name of Pesticide Product: KleenGrow

NOTICE OF PESTICIDE:

- x Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Pace Chemicals Ltd.
8321 Willard Street
Burnaby, BC, Canada V3N 2X3

Note: Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 sec 3(c)(7)(C) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
a. Revise the "EPA Registration Number to read, "EPA Reg. No. 81820-2

Signature of Approving Official:

Velma Noble
Product Manager Team-31
Regulatory Management Branch I
Antimicrobials Division (7510P)

Date:

FEB 12 2007

Labeling Comments:

- b. Use directions must specify that for ornamentals, the product may only be used in a greenhouse and not outdoors.
- c. **Revise the Environmental Hazards statement to read as follows:**

"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.
- d. Under Personal Protective Equipment (PPE) add the following:

Applicators and other handlers must wear protective eyewear, long pants and long-sleeved shirt, shoes plus socks and "delete word waterproof" and replace with "chemical resistant" gloves.
- e. Under heading Agricultural Use Equipment the sentence that reads Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of "delete 12" replace with "48" hours.

Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.

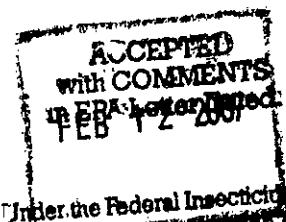
Sincerely,



Velma Noble
Product Manager 31
Regulatory Branch I
Antimicrobials Division (7510P)

Enclosure:

3 8 7



KleenGrow

Algicide • Fungicide • Bactericide
Disinfectant • Cleaner • Virucide

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

81820-2

Use as a Cleaner or General Disinfectant for controlling Fungal and Bacterial pathogens on hard-surfaces and on Ornamentals, Potted Plants, Cut Flowers and Nursery Stock in Greenhouses. Only for use in Fruit/Vegetable Packing Facilities, Storage Areas, and Coolers

Active Ingredients:

Didecyl dimethyl ammonium chloride

7.5%

Other Ingredients:

92.5%

TOTAL:

100.0%

**KEEP OUT OF REACH OF CHILDREN
DANGER**

EPA Registration No. 81820-___

EPA Establishment No. 49292-WA-1

NET CONTENTS: 1 gallon (3.78 liters), 5 gallons (18.9 liters) or 30 gallons (114 liters)

PACE CHEMICALS LTD.

8321 Willard Street,

Burnaby, B.C.

V3N 2X3

CANADA

1-800-799-6211

www.pacechem.com

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

DANGER. Corrosive. Causes irreversible eye damage. 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 waterproof 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.

FIRST AID	
If in Eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes, then continue rinsing eye. • Remove contact lenses, if present after the first 5 minutes, then Continue rinsing the eye. • Call a poison control center or doctor for treatment advice.
If on Skin or Clothing:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not induce vomiting unless told so by a 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: Probably mucosal damage may contraindicate the use of gastric lavage.	

ENVIRONMENTAL HAZARDS

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.

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 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.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry into treated area that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water wear coveralls, waterproof 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.

GENERAL 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 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.

Footbaths

Prepare a solution of **KleenGrow** at a dilution of 1.0 – 2.0 fl. oz. per gallon of water. Pour this solution into a footbath to a depth of ½" to 1" or on a foot mat to the top of the ribs. Scrape debris off shoes and place in footbath for 10 minutes. Check footbath 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.

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.

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.

GENERAL CLEANING AND MICROBAL 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 **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 nutrient solution.

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 minutes. Wipe dry with a clean cloth or sponge or allow to air dry.

Algae Removal off Walls, Benches, Coolers, Floors, and Walkways

Thoroughly wash all walls, benches, or floors 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 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**.

Algae, Fungus and Odor Control in Evaporative Cooling Pads

Add 0.15 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:

NOT INTENDED FOR USE IN GREENHOUSES WHERE FOOD CROPS ARE GROWN.

Botrytis, Powdery Mildew, Downy Mildew, Fusarium, Xanthomonas, Thielaviopsis, Fungal and Bacterial Leaf Spots and Blights - Foliar Spray

Apply **KleenGrow** starting at Week 3 or earlier if conditions are favorable for disease. Use a watering device to apply a wet srench at a rate of 0.15 to 0.5 fl. oz. per gallon of water (90 to 300 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 1 gallon of water.

Botrytis Control - 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 - 0.5 oz per gallon of water.

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

Apply **KleenGrow** by injecting 0.25 to 0.5 fl. oz. per gallon of water (150 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 1 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.

CAUTION: 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 recommended concentration. Use with caution on young seedlings or tender young growth.

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning 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.