

81820-2

07/27/2012

1/10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Mr Eliot Harrison
Agent for Pace Chemicals, Ltd
Lewis and Harris, LLC
122 C Street, N W , Suite 740
Washington, D C 20001

JUL 27 2012

Subject KleenGrow
EPA Registration No 81820-2
Tolerance Petition OF7747
Amendment Date July 9, 2010
EPA Receipt Date July 12, 2010

Dear Mr Harrison,

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), section 3(C)(7)(A) is acceptable with the conditions below

Proposed Amendment

- Establish Tolerance Exemption for treatment of Broccoli seeds prior to planting
- Add same use for additional non-food seeds

Conditions

- 1) Correct the following statement on page 4 “(Note The REI does not apply to hard surface disinfection)” by deleting the reference to **irrigation line disinfection** The correct statement is in the section which follows and ends “ end of season irrigation line cleaning and microbial control ”
- 2) Your product is for use in Greenhouse to control plant pathogens and algae Thus provide clarification to the section on page 7 headed **Algae, Fungus and Odor Control in Evaporative Cooling Pads** by revising to end as follows “ once a month to control disease (plant pathogens) and algae control ”

CONCURRENCES							
SYMBOL	7510P						
SURNAME	J. J. Jones						
DATE	7/27/12						

General Comments

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling. Please contact Tracy Lantz at (703) 308-6415 or Velma Noble at (703) 308-6233 with any questions.

Sincerely,

for

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

Enclosure Stamped Label
7510P T Lantz 7/27/12 81820-2 tolerance exemption broccoli seeds

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

3/6

KleenGrow

**Algicide • Fungicide • Bactericide
Disinfectant • Cleaner • 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, Livestock Facilities
including Poultry, Swine, Alligator, Crocodile, and Cattle and Industrial Facilities and on Farms**

Active Ingredient

Didecyl dimethyl ammonium chloride 7.5%

Other Ingredients

92.5%

TOTAL

100.0%

**KEEP OUT OF REACH OF CHILDREN
DANGER**

EPA Registration No 81820-2

EPA Establishment No 49292 WA-1

NET CONTENTS [1 qt (0.946 liter)] [1 gallon (3.78 liters)], [5 gallons (18.9 liters)] or [30 gallons (114 liters)], [55 gallons (207.9)] [275 gallon (1040 litres)]

[PACE CHEMICALS LTD]

[D/B/A] Pace 49, Inc

8321 Willard Street,

Burnaby, B C

V3N 2X3

CANADA

1 800 799 6211

www.pacechem.com

ACCEPTED
with COMMENTS
in EPA Letter Dated
JUL 27 2012

Under the Federal Insecticide
Fungicide and Fungicide Act
EPA Reg. No. 81820-2
EPA

81820-2

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	

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

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

Note to reviewer Following language would be used for containers equal to or less than 5 gallons

Container Disposal Nonrefillable 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

Note to reviewer Following language would be used for containers greater than 5 gallons

Container Disposal Nonrefillable 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 Fill the container ¼ full with water Replace and tighten closures Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Follow pesticide disposal instructions for rinsate 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

Note to Reviewer Agricultural/Farm Use Language

[Note to Reviewer the following language is only required for Agriculture/Farm uses]

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.

[Note to Reviewer the following language is only required for Agriculture/Farm uses]

User Safety Requirements

- 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

[Note to Reviewer the following language is only required for Agriculture/Farm uses]

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 line disinfection.)

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, workers must 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.

DIRECTIONS FOR USE

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

[Note to Reviewer the following language is only required for Agriculture/Farm uses]

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.

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

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

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 spray 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 (35-230 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 1 gallon of water.

Botrytis Control for Ornamental Plants, Nursery Stock, and Bare Root - 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 0.06 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 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.

Broccoli and Flower Seed Botrytis, Rhizoctonia, Fusarium, Penicillium, Erwinia, Pseudomonas, Xanthomonas

For control of Botrytis, Rhizoctonia, Fusarium Penicillium and other fungal and bacterial diseases present in broccoli and flower seeds prior to planting Add 0.15 to 2.0 fl oz of **KleenGrow** to 1 gallon of water then test the solution using QAC test strips (La Motte #2949 BJ or equivalent) to ensure an a 1 concentration between 90 and 1200 ppm Immerse both crate and seeds in the solution for 10 minutes Use no more than 1200 ppm a 1 per 100 g of seed Remove from solution and allow to drain Prior to planting or storage, rinse treated seeds with water three times and allow to air dry Prepare a fresh solution after each use Do not use treated seed to grow broccoli sprouts for direct human consumption

Note to Reviewer Hard Surface & Non Ag Use Language

GREENHOUSE AND INDUSTRIAL USE

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 come in contact with 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 come in contact with food, thoroughly rinse surfaces with potable water

Disinfection of 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 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

GREENHOUSE USE

GENERAL CLEANING AND MICROBAL CONTROL (plant pathogens and algae)

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 0.25 to 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, Pens, 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 – 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

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 footbath 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 such as La Motte 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 at proper level or change the solution if it appears visibly soiled.

First clean shoes or boots of all debris by scraping.

To Wash Footwear Place in shoebath for at least **30 seconds**

FARMS AND LIVESTOCK PREMISES

Farm Premise Use

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with a use-solution of 1.0 fl. oz. of **Kleengrow** per gallon of water [*or equivalent dilution*] for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used for removing litter and manure. Ventilate buildings, cars, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

Livestock Premise Disinfection directions

Remove all animals and feeds from premises, vehicles and enclosures such as coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. 1.0 fl. oz. of **Kleengrow** per gallon of water. Saturate surfaces with the disinfecting solution for 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

Hatcheries

Use 1.0 fl. oz. of **Kleengrow** per gallon of water to treat hatcheries, setters, trays, racks, carts, sexing tables, delivery trucks and other hard nonporous surfaces. Use 2 oz. per gallon of water to kill Adenovirus Type 5 and type 7. Leave all treated surfaces wet for 10 minutes or more. Wipe dry with a clean cloth or sponge or allow to air dry.

Disinfecting Vehicles

Treat all vehicles including mats, crates, cabs and wheels with water and **Kleengrow**. Use 1.0 fl. oz. of **Kleengrow** per gallon of water to treat all vehicles. Leave all treated surfaces wet for 10 minutes or more. Wipe dry with a clean cloth or sponge or allow to air dry.

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