

70231-1

3-30-1999

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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MAR 30 1999

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Charles B. Cookston  
 Nichimen America, Inc.  
 1345 Avenue of the Americas  
 New York, NY 10105

Dear Mr. Cookston:

Subject: Kaligreen®  
 EPA Reg. No. 70231-1  
 Your Submissions of December 23, 1997; December 3, 1998; March 24, 1999;  
 and March 29, 1999

On behalf of your client, TOAGOSEI Co., Ltd., you made requests to amend the label of EPA Reg. No. 70231-1 in December of 1997 and in December of 1998. It was determined that the 1998 amendment request superceded the 1997 amendment request; your March 29, 1999 submission authorized the withdrawal of the 1997 label amendment request. Administrative review of the December, 1998 submission revealed minor deficiencies in the proposed label. Denise Greenway, of my staff, alerted you by telephone of the deficiencies, which were resolved by your fax transmissions of March 24 and 29, 1999.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

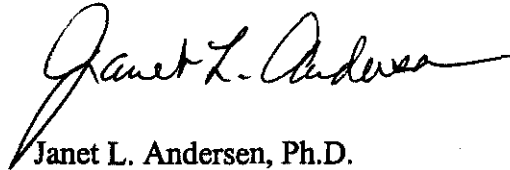
CONCURRENCES

SYMBOL	7511C	7511L					
SURNAME	Greenway	Boyd					
DATE	3/29/99	3/29/99					

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Should you have questions or concerns, please contact me, or telephone Ms. Greenway on (703) 308-8263.

Sincerely,



Janet L. Andersen, Ph.D.  
Director  
Biopesticides and Pollution  
Prevention Division (7511C)

Enclosure

DGreenway/308-8263/3-26-99/kaligreenamendment.wpd/Kbicarbonate

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BEGIN FRONT PANEL

### Kaligreen®

#### POTASSIUM BICARBONATE SOLUBLE POWDER

KALIGREEN is a curative, contact fungicide for control of powdery mildew.

ACTIVE INGREDIENT: Potassium bicarbonate.....	82.0%
INERT INGREDIENTS:.....	18.0%
Total:.....	100.0%

EPA Reg. No. 70231-1

EPA Est. No. 70231-JP-1

NET WEIGHT: 5.0 LBS./2.27 KGS.  
10.0 LBS./4.54 KGS.

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

#### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed, absorbed through skin, or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**Personal Protective Equipment (PPE):**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.

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 eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ACCEPTED

MAR 30 1999

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
this pesticide is registered under  
EPA Reg. No. 70231-1

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## ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

### 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 requirements 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 with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and 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) and restricted-entry interval. The requirements in this box 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 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- coveralls,
- waterproof gloves,
- shoes plus socks.

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep children and domestic animals out of the treated area until sprays have dried.

**MODE OF ACTION:** KALIGREEN is a fungicide containing microencapsulated potassium bicarbonate as the active ingredient. KALIGREEN is a contact fungicide, so direct contact with the fungus organism is required for control. KALIGREEN disrupts the potassium ion balance in the fungus cell, causing the cell walls to collapse.

**CHEMIGATION:** Do not apply this product through any type of irrigation system.

**APPLICATION:** Apply by ground equipment only in sufficient water (25 gallons per acre minimum) to ensure complete and thorough coverage of foliage and/or crop. Contact of the disease organisms is essential for control. Use of a non-acidifying spreader/sticker is recommended. A non-phytotoxic crop oil may also be used.

**MIXING:** Pour recommended amount into spray tank partially filled with water. Add KALIGREEN slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. A spreader/sticker and/or other products should be added last. Do not allow mixture to stand. Use within 24 hours as KALIGREEN may lose its activity if left in the tank.

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**COMPATIBILITY:** KALIGREEN is compatible with most crop protection products and nutrients. However, do not mix it with highly acidic products as the effectiveness of KALIGREEN may be compromised. Use of a buffering agent for acidification of a tank mixture may also decrease the effectiveness of KALIGREEN. If compatibility is in question, use the compatibility jar test before mixing a whole tank. Because of the wide variety of possible combinations that can be encountered, observe all precautions and limitations on the label of all products used in mixtures.

**TIMING:** Begin application at first sign of disease. Repeat applications as new growth or infection occurs or as favorable disease conditions continue. Use in an Integrated Pest Management rotation program at 7-10 day intervals with other effective fungicides for resistance management. KALIGREEN may be applied up to the day before harvest (PHI = 1 day) for all labeled crops except roses, turf, ornamentals and tobacco. The PHI for roses, turf and ornamentals is 4 hours; the PHI for tobacco is 10 days. KALIGREEN may also be applied post-harvest to remaining foliage to decrease overwintering inoculum.

**RECOMMENDATIONS:**

For the control of powdery mildew, use KALIGREEN as indicated on the following crops. Use the higher rate when disease pressure increases or a severe infection has occurred.

CROPS	RATE
Root and tuber vegetables, such as beet (garden, sugar), carrot	2 ½ - 3 lbs/A
Bulb vegetables, such as onions (dry bulb, green), garlic, leeks, shallots	2 ½ - 3 lbs/A
Leafy vegetables, such as endive, head and leaf lettuce, radicchio, spinach, Swiss chard	2 ½ - 3 lbs/A
Cole crops, such as broccoli, Brussels sprouts, cabbage, cauliflower	2 ½ - 3 lbs/A
Legume vegetables (succulent or dried), such as bean (snap, green), pea (edible-pod, field, green, snow)	2 ½ - 3 lbs/A
Fruiting vegetables, such as eggplants, pepper (bell, chili, pimento), tomatillo, tomato	2 ½ - 3 lbs/A
Cucurbits, such as cucumber, cantaloupe, casaba, honeydew melon, pumpkin, summer squash (crookneck, zucchini), winter squash (butternut, acorn), watermelon	2 ½ - 5 lbs/A
Pome fruits, such as apple, pear, quince	2 ½ - 3 lbs/A
Stone fruits, such as apricot, cherry, nectarine, peach, plum, prune	2 ½ - 3 lbs/A
Grapes (wine, fresh market, raisin)	2 ½ - 5 lbs/A
Small fruits and berries, such as blackberry, blueberry, currant, loganberry, raspberry, strawberry	2 ½ - 3 lbs/A
Subtropical fruits, such as banana, date, mango, papaya, pineapple	2 ½ - 3 lbs/A
Cereal grains such as barley, wheat	2 ½ - 3 lbs/A
Herbs and spices, such as basil, chives, coriander (cilantro), dill, oregano, parsley, thyme	2 ½ - 3 lbs/A
Hops	2 ½ - 5 lbs/A
Additional crops: mint (peppermint, spearmint), tobacco	2 ½ - 3 lbs/A
Ornamentals - field and greenhouses, such as bare root, container, bedding and flowering stock, field grown cut flowers, vegetable transplants, nursery and landscape, potted flowering, shade and flowering trees, woody ornamentals*	1 - 3 lbs/A or 1 - 3 lbs/100 gal. water/A hand held applications
Roses (field and greenhouse)	1 - 3 lbs/A or 1 - 3 lbs/100 gal. water/A hand held applications
Turf (ornamental lawns, golf courses, sod farms)	2 ½ - 3 lbs/A or 3 lbs/100 gal. water/A hand held applications

\* NOTE TO USER: Unintentional consequences such as crop injury may result due to certain environmental or growing conditions, manner of use or application. Because plant tolerance of pesticides varies as conditions vary, treat a few plants under conditions expected to be encountered and observe for plant damage prior to full-scale application to large numbers of plants.

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**STORAGE AND DISPOSAL**

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

Pesticide Storage: Store in a cool, dry place inaccessible to children.

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: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY AND CONDITIONS OF SALE**

TOAGOSEI warrants that this product conforms to the description on this label and is reasonably fit for the purposes stated on this label when used in accordance with the directions on this label under normal conditions of use.

TOAGOSEI MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

If this product is defective, buyer's exclusive remedy shall be the replacement of the product, or if replacement is impractical, refund of the purchase price. In no case will TOAGOSEI be liable for incidental, consequential or special damages resulting from handling, storage or use of this product.

TOAGOSEI Co., Ltd.  
1-14-1, Nishi Shimbashi  
Minato-Ku, Tokyo 105-8419  
Japan

END FRONT PANEL