

**Section 18 Quarantine Exemption
For the Use of
Calcium Hydroxide (97.0% a.i.)**

**To Control
Coqui and Greenhouse Frogs (*Eleutherodactylus coqui* and *E. planirostris*)**

**In Outdoor Ornamental Plants in Nurseries and Residential Areas, Parks,
Hotels & Resorts, Forest Habitats and Natural Areas***

For Use in the State of Hawaii Only

Calcium hydroxide may be used in the State of Hawaii (Oahu, Kauai, Maui, Lanai, Molokai and the Island of Hawaii) to control the coqui and greenhouse frogs in outdoor ornamental plants in nurseries and residential areas, parks, hotels and resorts, forest habitats, and natural areas* from **April 26, 2005 through April 26, 2008** under a Quarantine Exemption granted by the U.S. Environmental Protection Agency under the provisions of the Federal Insecticide, Fungicide, and Rodenticide Act, as Amended.

*A natural area is defined as any area in the State Conservation District or any area known to contain a listed plant species. All applications in natural areas must be performed by state or federal agencies (eg. Hawaii Department of Land and Natural Resources, National Park Service, etc.) or non-governmental organizations such as The Nature Conservancy.

Active ingredient:

Calcium hydroxide.....97.0%
Other ingredients..... 3.0%
Total.....100.0%

**KEEP OUT OF REACH OF CHILDREN
DANGER (PELIGRO)**

First Aid	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
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 treatment advice.
If on skin or Clothing	·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 inhaled	·Move person to fresh air. ·If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. ·Call a poison control center or doctor for further treatment advice.
If swallowed	·Call poison control center or doctor immediately for treatment advice. ·Have person sip a glass of water if able to swallow. ·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.

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 and skin burns. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. May be fatal if inhaled. Do not breathe dust. Harmful if absorbed through the skin. For handling activities, use a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter, or a full-faced respirator. Wear coveralls worn over long-sleeved shirt and long pants, protective eyewear (goggles or face shield), chemical-resistant footwear and socks, and chemical-resistant gloves. When cleaning equipment, wear a chemical-resistant apron. For overhead exposure, such as when applying foliar sprays to tall ornamentals, wear chemical-resistant headgear.

Personal Protective Equipment (PPE):

Applicators and other handlers must use the following PPE:

Coveralls worn over long-sleeved shirt and long pants, chemical-resistant footwear and socks, and chemical-resistant gloves, protective eyewear (goggles or face shield) and NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter, or a full-faced respirator. When mixing, loading or cleaning equipment, wear a chemical-resistant apron. For overhead exposure, such as when applying foliar sprays to tall ornamentals, wear chemical-resistant headgear.

User Safety Recommendations:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

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.

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.

AGRICULTURAL USE REQUIREMENTS:

Use of 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 only apply to uses of this product that are covered by the Worker Protection Standard.

AGRICULTURAL USE REQUIREMENTS (Continued)

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE 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, wear: coveralls over long-sleeved shirt and long pants, socks and chemical resistant footwear, protective eyewear (goggles or face shield), and chemical-resistant gloves.

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 (40CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Residential areas, parks, hotels and resorts, forest habitats and natural areas are not within the scope of the Worker Protection Standard.

Do not allow people (other than applicator) or pets to enter treated areas until sprays have dried.

Sites of Application: (Calcium hydroxide is not to be applied to food crops.)

Calcium hydroxide may be applied to outdoor ornamental plants in nurseries and residential areas, parks, hotels & resorts, forest habitats and natural areas*.

- Calcium hydroxide should not be applied to areas recently treated with ammonium-containing fertilizers and should not be stored where there is a possibility of coming into contact with such fertilizers. (Calcium hydroxide can react with fertilizers containing ammonium ion to release ammonia.)
- Calcium hydroxide (both as dust and aqueous suspension) should not be applied in areas where children play or congregate.
- Calcium hydroxide should not be applied to trees where there is the potential for subsequent dripping of hydrated lime solution (which might occur if the originally applied calcium hydroxide has dried, but mist or dew condenses on the foliage) on either people or property, such as automobiles.

In field testing, no phytotoxicity was observed on any of the ornamental plants used in the trials. However, due to the large number of species and varieties of plants, it is impossible to test every one for safety. Prior to any large-scale application on any plants of value, the user should determine the safety of calcium hydroxide by testing a small number of the type of plants to be treated and observing the treated plants over a one to two week period for phytotoxicity.

* A natural area is defined as any area in the State Conservation District or any area known to contain a listed plant species. All applications in natural areas must be performed by state or federal agencies (eg. Hawaii Department of Land and Natural Resources, National Park Service, etc.) or non-governmental organizations such as The Nature Conservancy. **The U.S. Fish & Wildlife Service (USFWS) Must Be Notified Prior to Application to Natural Areas.**

Method of Application:

Calcium hydroxide may be used as a dust applied directly to the substrate, in combination with water as a soil drench, or as a foliar spray with appropriate ground application equipment. Dust applications are limited only to agricultural establishments that can control entrance into the treated sites for a minimum of 48 hours. **Calcium hydroxide is a contact pesticide, therefore, thorough coverage of the treated area or commodity is necessary for good control.** Aerial application and chemigation are prohibited.

Timing of Application:

During the day, frogs generally hide in substrate near or on the ground, then at dusk, climb onto taller vegetation to feed. To maximize effectiveness, daytime treatments should be limited to dust and soil drench applications when frogs are near to or on the ground surface areas. Foliar applications should be after dusk during the early evening when frogs have climbed up into taller foliage. Monthly monitoring for frogs should be done to ensure populations remain low.

Mixing Rate Chart to Achieve a 3% Solution

Pounds of calcium hydroxide	Gallons of water
2.50	10
25	100
125	500
250*	1000

*Soil Drench Application Only.

Mixing Procedure:

Using the above chart as reference, fill spray tank half-full with water, begin agitation, add calcium hydroxide, and continue filling tank with water to desired level. Failure to follow mixing procedure may result in clogging of hoses. Maintain continuous agitation throughout application.

Methods of application:

Foliar and Soil Drench Application:

Apply as a 3% solution in sufficient volume to achieve thorough coverage. **Thorough coverage is essential to maximize effectiveness of treatment.**

For **foliar application**, do not exceed 125 pounds of calcium hydroxide per acre per application (ie., 500 gallons of a 3% solution).

For **soil drench application** do not exceed 250 pounds of calcium hydroxide per acre per application (ie., 1000 gallons of a 3% solution).

Dust Application (For Agricultural Use Only):

Apply as a **dust** to ground / nursery floor areas where control is desired. Do not apply as a dust to plants. Do not exceed 500 pounds of calcium hydroxide per acre per application.

Maximum Number of Applications per Acre per Year:

Re-apply as needed to reduce frog populations, but do not exceed twelve (12) applications per twelve-month period. Calcium hydroxide will alter the acidity of the soil. If applied to soils of plants requiring acid conditions for optimum growth, the calcium hydroxide may adversely affect plant vigor and health. It is recommended that the soil pH be tested periodically to ensure that the use of calcium hydroxide does not exceed the soil requirements of the plants.

Storage and Disposal:

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

Pesticide Storage: Store bag tightly closed in a cool, dry, well-ventilated area that is inaccessible to children, pets, and domestic animals. Do not store near fertilizers containing ammonium. (Calcium hydroxide can react with fertilizers containing ammonium ion to release ammonia.)

Container Disposal: Completely empty bag into application equipment. Do not reuse bag. Dispose in landfill.

Pesticide Disposal: If the product cannot be disposed of through labeled usage, dispose of pesticide as hazardous waste.

Other Restrictions:

- Do not apply to food crops.
- Do not apply by aerial application.
- Do not apply by chemigation.
- Adverse effects shall be reported to the Hawaii Department of Agriculture, Pesticides Branch, immediately at (808) 973-9401.

USFWS Contact Information:

Ms. Catherine Swift
U.S. Fish & Wildlife Service
Pacific Islands Fish & Wildlife Office
P.O. Box 50088
Honolulu, HI 96850

Phone: (808) 792-9459

Fax: (808) 792-9580

Recordkeeping Requirements:

Dealers shall maintain sales records on forms supplied by the Hawaii Department of Agriculture. Record forms shall be submitted to the Department of Agriculture, Pesticides Branch (1428 S. King Street, Honolulu, HI 96814) within two (2) weeks after the end of the month.

Failure to comply with the imposed restrictions and requirements may result in immediate termination of this specific exemption.

This specific exemption is scheduled to expire on APRIL 26, 2008.

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