

CITRIC ACID 16%

GALLONS OF WATER	POUNDS OF CITRIC ACID	GALLONS OF WATER	POUNDS OF CITRIC ACID
1	1.28	75	96
3	3.84	100	128
5	6.4	150	192
10	12.8	200	256
25	32	300	384
50	64	400	512

TOXICITY TO PLANTS:

Citric acid in water can be toxic to plants. Do not apply to plants of value. Evaluate the toxicity of citric acid solution on test plants before treating plants for the control of coqui and greenhouse frogs. To avoid damage to plants wash down the treated area with fresh water, preferably within an hour after citric acid application.

MIXING PROCEDURE:

Using the above chart as reference, fill sprayer tank half-full with water, start motor to begin agitation, add citric acid and continue filling tank with water to desired level. Failure to agitate during mixing procedure will result in clogging the hoses, filter or pump and may damage the equipment.

METHODS OF APPLICATION:

Apply as a 16% solution in sufficient volume to achieve thorough coverage. Thorough coverage is essential to maximize effectiveness of treatment and TO kill coqui and greenhouse frogs.

Timing of Application:

During the day, frogs generally hide in substrate near or on the ground, then at dusk, climb into taller vegetation to feed. To maximize effectiveness, daytime treatments should be limited to 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. Monitoring for frogs should be done to ensure populations remain low.

QUESTIONS:

For questions regarding the use of citric acid for frog control, contact the State of Hawaii, Department of Agriculture, Division of Plant Industry, Pesticides Branch at Tel. (808) 974-4143.

***DISCLAIMER** regarding this copy of Hawaii Department of Agriculture (HDOA) pesticide label for use of citric acid anhydrous for control of Caribbean frogs (*Eleutherodactylus coqui* and *Eleutherodactylus planirostris*):

The information on the following pages was faxed to the Maui Invasive Species Committee office, and a photocopy sent from there to the Hawaiian Ecosystems at Risk project (HEAR); a photocopy of the fax is on file with HEAR.

This document (PDF version) is provided for informational purposes only; this PDF version was not produced by HDOA, and is therefore *not* an official representation of HDOA policy. *You should contact HDOA directly and get original documents for the latest official label information, permit application, reporting, etc.* (Refer to the last paragraph of the below document for telephone contact information for HDOA.)

Copies such as these might not be permissible for application for permits or reporting to HDOA. *You should contact HDOA directly and get original documents for the latest official label information, permit application, reporting, etc.* (Refer to the last paragraph of the below document for telephone contact information for HDOA.)

If you have any comments or suggestions regarding this PDF document, please send them to webmaster@hear.org.

-pt/20030528