

769-414

6/24/2001

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RESTRICTED USE PESTICIDE
Due to Aquatic Toxicity, Acute Oral and Inhalation Toxicity

For retail sale to, and use only by, Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

POWDERED CUBE'
 Contains 5% Rotenone

For Control of Fish in Lakes and Ponds

ACCEPTED
 JUN 4 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 5.0% 769-414

ACTIVE INGREDIENTS:

Rotenone	5.0%
Other Associated Resins	7.5%
INERT INGREDIENTS:	87.5%
Total:	100.0%

EPA Reg. No. 769-414

EPA Est. No. 769-GA-1

KEEP OUT OF REACH OF CHILDREN



PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Fatal if inhaled or swallowed. Harmful if absorbed through the skin. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not breath dust. Use a dust filtering respirator (MSHA/NIOSH approval number prefix TC-21C). Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before... reuse.

FIRST AID

If Swallowed: Call a 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.

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The actual application rates and concentrations of rotenone needed to control fish will vary widely, depending on the type of use (e.g., selective treatment, normal pond treatment, etc.) and the factors listed above. The table below is a general guide for the proper rates and concentrations.

2. Total Amount of Powdered Cube' needed for treatment for treatment

To determine the total number of pounds needed for treatment, divide the number of acre-feet covered by one pound for a specific type of use (e.g., selective treatment, etc.) as indicated in the table below, into the number of acre-feet in the body of water.

General Guide to the Application Rates and Concentrations of Rotenone Needed to Control Fish in Lakes and Ponds¹

<u>Type of Use</u>	<u>Number of Acre-Feet Covered by one pound</u>	<u>Parts per Million</u>	
		<u>Active Rotenone</u>	<u>Powdered Cube</u>
Selective Treatment	3.7 to 2.8	0.005 - 0.007	0.10 - 0.13
Normal Pond Use	0.74 to 0.37	0.025 - 0.050	0.5 - 1.0
Remove Bullheads or Carp	.37 to .185	0.050 - 0.100	1.0 - 2.0
Remove Bullheads or Carp in Rich Organic Ponds	.185 to 0.093	0.100 - 0.200	2.0 - 4.0
Pre-impoundment	.123 to 0.074	0.150 - 0.250	3.0 - 5.0

¹ Adapted from Kinney, Edward 1965. Rotenone in Fish Pond Management. USDI. Washington, D.C. Leaflet FL-576.

Computation of acre feet for lake or pond: An acre-foot is a unit of water volume having a surface area of one acre and a depth of one foot. Make a series of transects across the surface, taking depths with a measured pole or weighted line. Add the measurements and divide by the number made to determine the average depth. To compute total acre-feet, multiply this average depth by the number of surface acres, which can be determined from an aerial photograph or plat drawn to scale.

3. Method of Application

Distribute Powdered Cube' evenly over the surface of the water and agitate to mix thoroughly. This may be accomplished by spraying on the surface and running back and forth with an outboard motor boat or a slurry of the Powdered Cube' can be prepared and poured directly behind the outboard motor or put material in a burlap sack, and trail behind motor boat. Frequent kneading of bag is necessary. In small ponds, distribution may be accomplished by pouring a slurry directly behind the outboard motor while the boat is pulled up on the bank. It may be necessary to move the boat to

Where F = flow rate (cu. ft./sec.), W_s = surface width (ft.), D = mean depth (ft.), L = mean distance traveled by float (ft.), and T = mean time for float (sec.).

For example, after using the above formula, you might have computed the stream's flow rate to be "10 cu ft per sec"

3. Calculation of Application Rate:

In order to calculate the application rate (expressed as pound per sec"), you convert the rate in the table (expressed as "pound per acre-foot"), to "pound per cu feet" and multiply by the flow rate (expressed as "cu ft per sec") Depending on the size of the stream and the type of equipment, the rate could be expressed in other units, such as "ounce per hr".

The application rate for the stream is calculated as follows:

$$R_s = R_p \times C \times F$$

where R_s = Application Rate for Stream (lb/sec), R_p = Application Rate for Pond (lb/acre feet), C = 1 acre foot/43560 cu. ft., and F = Flow Rate (cu ft/sec).

In the example, the Application Rate for Stream would be:

$$R_s = 1 \text{ lb}/0.74 \text{ acre-foot} \times 1 \text{ acre-foot}/43560 \text{ cu ft} \times 10 \text{ cu ft/sec}$$

$$R_s = .00031 \text{ lb/sec or } 17.9 \text{ oz/hr.}$$

4. Exposure Time

The "Exposure Time" would be the period of time (expressed in hours or seconds) during which target fish should not enter the lake or pond under treatment. In the example, this period of time could be 4 hours.

5. Amount of Product

Calculate the "Amount of Product" for a stream by multiplying the "Application Rate for Stream" by the "Exposure Time". In the example, the "Amount of Product" would be 71.6 oz (17.9 oz/hr x 4 hr) or 4.5 lb.

6. Method of Application

Prepare a slurry of Powdered Cube and pour directly into center of stream with the amount of product and at the application rate as calculated in the above instructions.

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RE-ENTRY STATEMENT

Do not allow swimming in rotenone-treated water until the application has been completed and all pesticide has been thoroughly mixed into the water according to labeling instructions.

STORAGE AND DISPOSAL

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

Storage: Store only in original container, in a dry place inaccessible to children and pets.

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.

IMPORTANT: Read these entire Directions and Conditions of Sale before using this product. **DISCLAIMER:** SureCo warrants that this product conforms to the chemical description on the label and is reasonably fit for the specific purposes referred to in the Directions For Use, subject to the inherent risks referred to above. SureCo makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty. In no case shall SureCo be liable for consequential, special, or indirect damages resulting from the use, handling or application of this product.

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