

5% Rotenone Cube Powder

Some common uses of Rotenone in fish management are:

1. To obtain a complete kill of fishes in a pond, lake, reservoir or stream. Purposes are to eliminate competitive or undesirable species so stocked fish will be more successfully established, to remove disease carriers in hatchery water supplies, and prevent clogging of intake screens by fishing at pumping stations.
2. To obtain a partial fish kill. Purposes are to thin populations of stunted fish to provide more space and food for the remaining fish, and, in investigative work, to sample for species, numbers, sizes and condition of fishes.
3. To obtain a selective fish kill. Careful application of rotenone can kill large numbers of gizzard shad, a nuisance fish, with minimum loss of game fishes. Successful selective kills also have been made on threadfin shad and freshwater drum. For best results may be expected when water is 60 degrees to 70 degrees or higher, the warmer the water the better are the results.

- CAUTION:**
1. Consult your State Fish and Game Agency before applying this product.
 2. Do not reuse empty container. Destroy it by perforating or crushing. Bury or discard in safe place.
 3. Harmful if swallowed or absorbed through the skin. Avoid contact with the skin.
 4. Avoid inhalation of dust.
 5. Wash all contaminated clothing with soap and hot water before reuse.
 6. It is unlawful to use rotenone in any public body of water, such as streams or creeks that flow across property lines or even in ponds that are subject to overflow into ponds on adjoining property. It is to be used only in private bodies of water for management purposes.

Rotenone is toxic to most species of fish and fish eggs at concentration of 0.5-1.0 parts per million. For special instructions, consult your State Fish and Game Agency to determine the correct concentration needed for the type kill desired.

NOTE TO BUYER

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

CAUTION: KEEP OUT OF REACH OF CHILDREN

ACTIVE INGREDIENTS

- Rotenone 5%
- Other cube Resins 10%
- INERT INGREDIENTS** 85%

Net Weight 4 Pounds

100%

RECEIVED
JUN 10 1973

DIRECTIONS FOR USE

ROTENONE IN FISH POND MANAGEMENT

Powdered rotenone must be thoroughly stirred so that all lumps are dissolved. An oar or boat paddle provides a good stirring device. The amount of water to use depends upon the strength of the rotenone mixture and application method. The concentration to use depends on purpose, kinds of fish, and water temperature and quality. The following table is a general guide.

Type of Use	Parts Per Million	
	5% Rotenone or Equivalent Mixture	Active Rotenone or Equivalent
Selective treatment	0.10 - 0.13	0.005 - 0.007
Normal pond use	0.5 - 1.0	0.025 - 0.050
Remove bullheads or carp	1.0 - 2.0	0.050 - 0.100
Remove bullheads or carp in rich organic ponds	2.0 - 4.0	0.100 - 0.200
Preimpoundment treatment above dam	3.0 - 5.0	0.150 - 0.250

For 5% powdered Rotenone 2.7 pounds equals one part per million of the mixture per acre-foot of water. The pounds to use may be obtained by multiplying the acre-foot to be treated times the parts per million of the Rotenone mixture recommended times 2.7.

HOW TO DETERMINE VOLUME IN ACRE-FEET

Accurate determination of the volume of water to be treated is essential for calculating the amount of rotenone to apply. Volume usually is figured in acre-feet; one acre-foot is the unit of volume having an area of 1 acre and a depth of 1 foot; it contained 43,560 cubic feet, 326,000 gallons, or 2,718,000 pounds.

Average depth may be found by sounding a pond along several transects with a weighted line or a pole marked off in feet and inches, adding all measurements and dividing by the number of soundings.

EXAMPLE: Surface area of a pond is 35,000 square feet or 0.82 acre (43,560 square feet in an acre). Average depth from 25 soundings is 32 inches or 2.67 feet. Area times depth in feet gives 2.19 acre-feet.

METHOD OF APPLICATION

Place powder in burlap sack and trail behind motor boat or premix with water and treat as liquid mixture. When treating deep water weight bag and tow at desired depth. Knead bag frequently.

RESTOCKING AFTER TREATMENT

Wait 2 to 4 weeks after treatment.

Place a sample of fish to be stocked in wire cages in the coolest part of the treated waters. If the fish are not killed within 24 hours, the water may be restocked.

SPECIAL INSTRUCTIONS: Water alkalinity, temperature, and turbidity are usually different for each location. Because these factors change the effectiveness of the piscicide, consult your State or Federal Fish and Game representative before use to determine the correct concentration of this product needed for the type kill desired.