

Reg # 1439-157

PM-14

192

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING: May be fatal if swallowed. May cause eye injury. Causes skin irritation. Do not get in eyes, on skin, or on clothing. Wear protective goggles, facemask, or safety glasses. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash thoroughly before reuse.

Statement of Practical Treatment

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting. This product contains aromatic petroleum solvent. Aspiration may be a hazard.

Promptly drink a large quantity of a milk, egg white, and gelatin solution, or if these are not available, water. Avoid alcohol.

IF IN EYES: Flush with plenty of water and get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

Environmental Hazards

This pesticide is extremely toxic to fish. Fish kills are expected at recommended rates. Consult your State Fish and Game Agency before applying this product to public waters to determine if a permit is needed for such an application. Do not contaminate untreated water when disposing of equipment washwaters.

Physical and Chemical Hazards

Do not use or store near heat or open flame.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE 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: TRIPLE RINSE (OR EQUIVALENT). THEN OFFER FOR RECYCLING OR RECONDITIONING OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL OR BY OTHER PROCEDURES APPROVED BY STATE AND LOCAL AUTHORITIES.

CHEM-SECT BRAND

CHEM FISH REGULAR

(5% Emulsifiable Concentrate)

RESTRICTED USE PESTICIDE  
Due to Aquatic 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.

CHEM-SECT BRAND

CHEM FISH REGULAR

(For Control of Fish in Lakes and Ponds)

ACTIVE INGREDIENTS . . . . .	15.0%
Rotonone . . . . .	5.0%
Other Cube Extractives . . . . .	10.0%
INERT INGREDIENTS * . . . . .	85.0%
TOTAL . . . . .	100.0%

\*This product contains aromatic solvents.

KEEP OUT OF REACH OF CHILDREN

W A R N I N G

See Left Panel for additional precautionary statements.

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E.P.A. PESTICIDE EST. 144616-MO-1  
E.P.A. REG. NO. 1439-157  
Net Contents \_\_\_\_\_

ACCEPTED  
JUL 19 1993  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1439-157

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DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

USE RESTRICTIONS:

Use against fish in lakes, ponds, and streams (immediately above lakes and ponds).

Since such factors as pH, temperature, depth, and turbidity will change effectiveness, use this product only at locations, rates, and times authorized and approved by appropriate State and Federal fish and wildlife agencies. Rates must be within the range specified in the labeling.

Properly dispose of dead fish and unused product. Do not use dead fish as food or feed.

Do not use water treated with rotenone to irrigate crops or release within 1/2 mile upstream of a potable water or irrigation water intake in a standing body of water, such as a lake, pond, or reservoir.

APPLICATION DIRECTIONS:

Treatment of Lakes and Ponds

1. Application Rates and Concentrations of Rotonone

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 Product Needed for Treatment

To determine the total number of gallons needed for treatment, divide the number of acre-feet covered by one gallon 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.

CHEM FISH REGULAR should be mixed with water before application, rather than apply it at full strength. A wash tub or garbage can make a convenient container for mixing. Liquid CHEM FISH REGULAR mixes readily with water. In some types of water, CHEM FISH REGULAR does not penetrate to the deeper parts of the pond (20 to 25 feet or more) when applied on or at the surface. The deeper parts are usually treated by pumping the mixture through a weighted garden hose with perforated section at the end.

FOR USE IN STREAMS, IMMEDIATELY ABOVE PONDS, LAKES, OR RESERVOIRS. Allow CHEM FISH REGULAR to drain from drum directly into center of stream at a rate of 0.85-1.7 cc per minute for each cubic foot of water flowing per second in the stream (0.5-1.0 part per million CHEM FISH REGULAR or 0.025-0.05 ppm rotenone).

192

General Guide to the Application Rates and Concentrations of Rotenone Needed to Control Fish in Lakes and Ponds\* (5% Emulsifiable Concentrate Product)

Type of Use	No. of Acre-Foot Covered by One Gallon	Parts Per Million	
		Active Rotenone	5% Product
Selective Treatment	30 to 24	0.005-0.007	0.10-0.13
Normal Pond Use	6.0 to 3.0	0.025-0.050	0.5-1.0
Remove Bullheads or Carp	3.0 to 1.5	0.50-0.100	1.0-2.0
Remove Bullheads or Carp in Rich Organic Ponds	1.5 to 0.75	0.100-0.200	2.0-4.0
Pre-impoundment Treatment above Dam	1.0 to 0.6	0.150-0.250	3.0-5.0

\* 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 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 and Exposure Time

Pre-Mixing and Method of Application: Pre-mix with water at a rate of one gallon CHEM FISH REGULAR to 10 gallons of water. Uniformly apply over water surface or bubble through underwater lines.

Detoxification: CHEM FISH REGULAR treated waters detoxify under natural conditions within 1 week to 1 month, depending upon temperatures, alkalinity, etc. Rapid detoxification can be accomplished by adding chlorine or potassium permanganate to the water at the same rates as CHEM FISH REGULAR in parts per million plus enough additional to meet the chlorine demand of the untreated water.

4. Removal of Taste and Odor

CHEM FISH REGULAR treated waters do not retain a detectable taste or odor for more than a few days to a maximum of one month. Taste and odor can be removed immediately by treatment with activated charcoal at a rate of 10 ppm to each 1 ppm CHEM FISH REGULAR remaining. (Note: As CHEM FISH REGULAR detoxifies, less charcoal is required.)

5. Restocking

Waters treated with this product detoxify within 3-5 days, depending on pH, temperature, water hardness, and depth. To determine if detoxification has occurred, place live boxes containing samples of fish to be stocked in the treated waters. More rapid detoxification can be accomplished by adding potassium permanganate at the same dosage in parts per million as rotenone was used for the reclamation treatment.

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.

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