

ROTENONE FISH TOXICANT POWDER

For Control of Fish in Lakes, Ponds, Reservoirs, and Streams

RESTRICTED

EMERGENCY USE ONLY

FOR SALE AND USE IN BRITISH COLUMBIA FROM

SEPTEMBER 9, 2009 TO SEPTEMBER 8, 2010

GUARANTEE:

Rotenone – Minimum Guaranteed 8.74% w/w
Other Associated Resins 13.11%

ROTENONE ASSAY _____% ROTENONE

REGISTRATION NO. 29340 PEST CONTROL PRODUCTS ACT

DANGER

(Insert Skull & Crossbones Octagon)

POISON

READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN
Only to be used in closed systems.

Only to be used by certified operators and persons authorized in government-approved
pest control program.

NET CONTENTS: Kg.

PRENTISS INCORPORATED
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Suite 350
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FIRST AID:

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician or a poison control center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre 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 centre or doctor for further treatment advice.

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 centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Treat symptomatically

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. 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 breathe dust. Use a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter. 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.

Do not allow recreational access (e.g., wading, swimming, boating and fishing) to treated areas while rotenone is being applied. Do not allow swimming or wading in treated water for 72 hours after last application.

During mixing, loading and application:

Wear coveralls over long sleeved shirt and long pants, chemical resistant gloves, chemical resistant footwear plus socks and either a respirator with a NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH/MSHA/BHSE approved canister for pesticides; a NIOSH-approved helmet; or a MSHA/NIOSH approval hood-style respirator with a dust/mist filter.

Engineering Controls for Mixing/Loading :

Mixers and loaders must use a closed system that is designed by the manufacturer to remove the product from the shipping container and transfer the product into mixing tanks and/or application equipment. At any disconnect point, the system must be equipped with a dry disconnect or dry couple shut-off device that will limit drippage to no more than 2 ml per disconnect. The closed mixing/loading system must function properly and be used and maintained in accordance with the manufacturer's written operating instruction.

ENVIRONMENTAL HAZARDS: Toxic to aquatic organisms.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

NATURE OF RESTRICTION:

This product is to be used only in the manner authorized; consult provincial pesticide regulatory authorities about use permits that may be required. Apply this product only as specified on this label.

RESTRICTED USES

USE LIMITATIONS:

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 Provincial and Federal agencies. Rates must be within the range specified in the labeling. Properly dispose of dead fish and unused product. Do not use dead fish for food or feed. Do not use water treated with rotenone to irrigate crops or release within ½ km upstream of a potable water or irrigation water intake in a standing body of water, such as a lake, pond, or reservoir. Avoid contamination downstream/downlake of the treatment area, through release of rotenone-treated water, during or after treatment.

Note: Adjust amount of Rotenone Fish Toxicant Powder to be used to obtain the desired application concentration according to the actual Rotenone Assay, as noted under the Guarantee Statement on this label. For example, if the required amount of 5% rotenone is 21 kilograms, and the Rotenone Assay is 7%, use $5/7^{\text{th}}$ s of 21 kilograms or 15 kilograms of this product to yield the proper amount of active rotenone.

DIRECTIONS FOR USE:

FOR USE IN PONDS, LAKES, AND RESERVOIRS:

1) Application Rates and Concentrations of Rotenone

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 litres needed for treatment, divide the number of hectare-meters covered by one litre for a specific type of use (e.g. selective treatment, etc.), as indicated in the table, into the number of hectare-meters in the body of water.

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

Type of Use	No. of Hectare-metres Covered by 1 Kg	Active Rotenone (ppm)	5% Product (ppm)
Selective Treatment	1.00-0.76	0.005-0.007	0.10-0.13
Normal Pond Use	0.20-0.10	0.025-0.050	0.5-1.0
Remove Bullheads or Carp	0.10-0.05	0.050-0.100	1.0-2.0
Remove Bullheads or Carp in Rich Organic Ponds	0.05-0.025	0.100-0.200	2.0-4.0
Pre-impoundment Treatment Above Dam	0.033-0.025	0.150-0.200	3.0-4.0

Adapted from Kinney, Edward. 1965 Rotenone in Fish Pond Management. USDI Washington, D.C. Leaflet FL-576*.
 Note: The maximum application rate for ponds, lakes, and reservoirs is not to exceed 0.2 ppm rotenone. The maximum application rate for streams is not to exceed 0.05 ppm rotenone.

Computation of Hectare-metres for lake or pond: A hectare-metre is a unit of water volume having a surface area of one hectare and a depth of one metre. 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 average depth. To compute total hectare- metres, multiply this average depth by the number of surface metres, which can be determined from an aerial photograph or plate drawn to scale.

3) Pre-Mixing Method of Application

Pre-mix the appropriate amount of Rotenone Fish Toxicant Powder in a closed system with water at a rate in accordance with application rates approved for the Provincial permit. Uniformly apply through underwater lines (e.g., pump the mixture through a weighted garden hose with perforated section at end).

Detoxification: Rotenone Fish Toxicant Powder 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 rate, in parts per million, as Rotenone Fish Toxicant Powder, plus enough additional to meet the chlorine demand of the untreated water.

4) Removal Of Taste And Odour

Rotenone Fish Toxicant Powder treated waters do not retain a detectable taste or odour for more than a few days to a maximum of one month. Taste and odour can be removed immediately by treatment with activated charcoal at a rate of 30 ppm for each 1 ppm Rotenone Fish Toxicant Powder remaining.

5) 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.

DISPOSAL:

1. Triple-or-pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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