RESTRICTED USE PESTICIDE
DUE TO AQUATIC, ACUTE ORAL AND INHALATION TOXICITY

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

**ROtenone Fish Toxicant Powder**

**Active Ingredients:**
- Rotenone: Minimum Guaranteed ........................................... 7.4% w/w
- Other Associated Resins .................................................. 11.1%

**Other Ingredients:** .......................................................... 81.5%

**TOTAL:** 100.0% w/w

**Rotenone Assay** __________________________% Rotenone

**PREntox®** - Registered Trademark of Prentiss Incorporated

**Keep Out of Reach of Children**

**Danger**

**Poison**

**First Aid**

Have the product container or label with you when calling a poison control center or physician, or going for treatment.

**If swallowed**
- Call a Poison Control Center, physician, or the National Pesticide Information Center at 1-800-858-7378 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 physician.
- Do not give anything by mouth to an unconscious or convulsing person.

**If on skin or clothing**
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a Poison Control Center, physician, or the National Pesticide Information Center at 1-800-858-7378 for 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 Center, physician, or the National Pesticide Information Center at 1-800-858-7378 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 mouth-to-mouth, if possible.
- Call a Poison Control Center, physician, or the National Pesticide Information Center at 1-800-858-7378 for treatment advice.

**For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.**

**PreCautionary Statements**

**Hazards to Humans and Domestic Animals**

**Danger**

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.

**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.
### 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. If spilled, sweep up and dispose of as below.

**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 bag in a sanitary landfill or by incineration, or if allowed by State and local authorities by burning. If burned, stay out of smoke.

### 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.

**Note to User:** Adjust pounds of Rotenone according to the actual Rotenone Assay as noted under the Ingredient Statement on this label. For example, if the required amount of 5% rotenone is 21 pounds, and the Rotenone Assay is 7%, use 7/ of 21 pounds or 15 pounds of this product to yield the proper amount of active rotenone.

### APPLICATION DIRECTIONS:

**Treatment of Lakes and Ponds**

**Application Rates and Concentrations of Rotenone**

1. 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 pounds needed for treatment, divide the number of acre-feet covered by one pound for a specific 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.

3. **Calculation of Application Rate**

   In order to calculate the application rate (expressed as "pound per acre-foot"), you convert the rate in the table (expressed as "pound per acre-foot"), to "pound per cu. ft." 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 "ounces per hr."

4. **Application of Product**

   The application rate for the stream above is calculated as follows:

   \[ R = \frac{R_s \times C}{F} \]

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

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

   \[ R = \frac{1 \text{ lb/0.74 acre-ft} \times 1 \text{ acre foot/43560 cu. ft.}}{10 \text{ cu. ft./sec.}} \]

   \[ R = 0.0031 \text{ lb/sec or 17.9 oz./hr.} \]

5. **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.

### 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.

**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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#### Table: General Guide to the Application Rates and Concentrations of Rotenone Needed in Rich Organic Ponds

<table>
<thead>
<tr>
<th>Type of Use</th>
<th>No. of Acre-Foots Covered by One Pound</th>
<th>Parts Per Million</th>
<th>Active Rotenone</th>
<th>5% Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selective Treatment</td>
<td>3.7 to 2.8</td>
<td>0.005 - 0.007</td>
<td>0.10 - 1.3</td>
<td></td>
</tr>
<tr>
<td>Normal Pond Use</td>
<td>0.24 - 0.37</td>
<td>0.025 - 0.050</td>
<td>0.5 - 1.0</td>
<td></td>
</tr>
<tr>
<td>Remove Bullheads or Carp</td>
<td>0.37 - 0.185</td>
<td>0.050 - 0.100</td>
<td>1.02 - 2.0</td>
<td></td>
</tr>
<tr>
<td>Remove Bullheads or Carp in Rich Organic Ponds</td>
<td>0.185 to 0.093</td>
<td>0.100 - 0.200</td>
<td>2.0 - 4.0</td>
<td></td>
</tr>
<tr>
<td>Pre-imposition Treatment above Dam</td>
<td>0.123 to 0.074</td>
<td>0.150 - 0.250</td>
<td>3.0 - 5.0</td>
<td></td>
</tr>
</tbody>
</table>
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. **Pre-Mixing Method of Application**  
Pre-mix one pound of Rotenone with 3 to 10 gallons of water. Uniformly apply over water surface or bubble through underwater lines.

Alternately place undiluted powder in burlap sack and trail behind boat. When treating deep water (20 to 25 feet) weight bag and tow at desired depth.

4. **Removal of Taste and Odor**  
Rotenone 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 30 ppm. for each 1 ppm. Rotenone remaining (Note: As Rotenone detoxifies, less charcoal is required).