RESTRICTED USE PESTICIDE
Due to irritation and acute oral toxicity and due to toxicity to fish and other aquatic organisms.
For retail sale to and use only by Certified applicators or person under their direct supervision and only for those uses covered by the Certified Applicator's certification.

"THE APPLICATOR IS RESPONSIBLE FOR CONFORMING TO THE LABEL."

IMPORTANT GUIDANCE ON THE SAFE AND EFFECTIVE USE OF THIS PRODUCT IS PROVIDED IN THE RUTENONE SOP MANUAL, AVAILABLE FROM THE REGISTRANT OR THE AMERICAN FISHERIES SOCIETY AT www.fisheries.org/applications.

CHEM-SECT BRAND CHEM FISH REGULAR
(For Control of Fish in Lakes, Ponds, Reservoirs and Streams)

ACTIVE INGREDIENTS
Rutene... .......................... 5%
Omite... .......................... 5%
TOTAL... 100.0%

OTHER INGREDIENTS... 90.0%

Contains petroleum distillates

KEEP OUT OF REACH OF CHILDREN

WARNING

See last page for additional precautionary statements.

EPA PESTICIDE EST. NO. BR2992-N1-001
EPA REG. NO. 83997-1

Batch Code: ____________________________

TIFIA INTERNATIONAL LLC
194 Sturges Lane, Suite 3, Plymouth, MA 02360 USA
Tel: 978-829-3380 - www.tifiainternational.com
Fax: 978-829-3380

PHYSICAL AND CHEMICAL HAZARDS

Combustible: Do Not Use or Store Product Near Heat or open flame. (Flash Point over 145°F/62°C)

FIRST AID

If Swallowed
Call a poison control center or doctor immediately for treatment advice.
Do not give any liquid to the person.
Do not induce vomiting unless told to by a poison control center or doctor.
Do not give anything by mouth to an unconscious person.

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.

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 or doctor for further treatment advice.

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 or doctor for treatment advice.

Here, the product container or label with you when calling a poison control center or doctor or going for treatment. You may call the National Pesticide Information Center at 1-800-558-7748 for information including health concerns, medical emergencies or pesticide incidents.

NOTE TO PHYSICIAN: Contains petroleum distillates. Swallowing may cause aspiration pneumonia. Symptoms of exposure include numbness, lightheadedness, dizziness, vomiting, and hypotension. Decontamination, symptomatic, and supportive treatment is recommended.

PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals

WARNING

May be fatal if swallowed. May be fatal if inhaled. Do not breathe vapors or spray mist. Harmful to all species through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequent exposure to dust can cause allergic reactions in some individuals.

Protection Equipment (PPE)

All mixers, loaders, applicators and other hands (except pilots) must wear at a minimum, the following PPE: (1) overshoes, over long-sleeved shirt and long pants, (2) chemical-resistant gloves, made out of butyl rubber, neoprene rubber, or 14 mil, nitrile rubber, or 14 mil, or vinyl rubber, (3) chemical-resistant footwear plus socks, (4) protective eyewear, and (5) Wear a NIOSH-approved filter face mask with an organic vapor (OV) cartridge approval prefix TC-1986, or a NIOSH-approved particulate respirator with an R or P 8 or 9 filter with NIOSH approval number prefix TC-84A, or a NIOSH approved particulate or nonparticulate respirator with an HE filter with NIOSH approval number prefix TC-21C.

In addition, mixers, loaders and other exposed to the concentrate, through cleaning equipment or spills, must wear a chemical resistant apron.

Exception: waterproof waders may be worn in place of coveralls, chemical-resistant apron and chemical-resistant footwear.

See respectful Controls for additional requirements and exceptions.
Environmental Hazards
This product is extremely toxic to fish and other aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, or other waters bodies in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. "Do not discharge effluent containing this product to sewage systems without previously notifying the local sewage treatment permitting authority (POTW)." For guidance contact your State Water Board or Regional Office of the EPA.

Engineering Controls for Staining, Loading, and Applying Liquid Formulations (Package in Containers of more than 5 Gallons) (I) Use a closed system that meets the requirements listed in Wisconsin Department of Health Services, Wisconsin Department of Natural Resources: "Guidance for Materials Handling, Storage, and Disposal of Handling and Storage of Hazardous Materials." (2) Use a closed system described below:

Remove paint from the body of the container containing this product only when drum is sitting on the ground on a concrete level platform with dolly and rued up. Do not sit drum up. Transfer product from the drum into the mixing tank by use of a positive feed connected to one end of the suction pump of the mixing system and connected to the other end of the pump by hose. The pump is a positive displacement pump that has the ability to pump product from the drum at the rate of 600 gallons per hour. To ensure the product is not over-discharged, install a filter on the suction line of the product feed pump. If the filter is not installed, the product could be over-discharged, resulting in a fire hazard. The filter should be replaced at least every 6 months. The filter should be replaced when the product feed pump is not operating.

The filter is installed on the suction line of the product feed pump. The filter is a 5-micron filter. The filter is replaced every 6 months. The filter should be replaced when the product feed pump is not operating.

Product Contents or more than 5 gallons
Do not pour excessive amounts from containers of more than 5 gallons. Transfer product from original container into measuring device, within secondary containment area, by pouring or using pump or air-operated type. See recommendations in Table DF-14 for further guidance.

Engineering Controls for Applying Liquid Formulations
Open containers are prohibited. Do not apply this product using a spray gun or air-assisted equipment. Use a pump or hand-held sprayer. Pump or hand-held sprayer should be used in a well-ventilated area. Do not use in enclosed areas or near open flames. Use a pump or hand-held sprayer should be used in a well-ventilated area.

Engineering Controls for Boat Applications
Boat painters or others on the application platform should wear appropriate protective clothing and equipment, including personal protective equipment (PPE), such as: (1) tight-fitting long-sleeved shirt, long pants, shoes, and socks; (2) respirator; and (3) gloves or long-sleeved shirt, long pants, shoes, and socks. In addition, the person should be provided with adequate ventilation.

DIRECTIONS FOR USE
Restricted Use Pesticide
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING, INCLUDING BOTH THE
CONTAINER LABEL AND THE STANDARD OPERATION PROCEDURES MANUAL (SOP) available for the registrant or the American Fisheries Society at www.fisheries.org/labelRegulations. THIS PRODUCT MUST BE ACCOMPANIED BY AN EPA-APPROVED ROTTENONE SOP MANUAL.
READ THE CONTAINER LABEL AND ROTTENONE SOP MANUAL PRIOR TO USE. THE APPLICATOR IS RESPONSIBLE FOR FOLLOWING THE DIRECTION AND THE SOP MANUAL.

This product is regulated for use by or under permit only and after consultation with State and Federal Fish and Wildlife Agencies.

GENERAL INFORMATION
This product is a specially formulated product containing rotenone to be used in fisheries management for the eradication of fish from ponds, reservoirs, raceways, and reservoirs of unused product. Do not use dead fish for food or feed. Do not site water treated with rotenone to irrigation crops or safely within 5 miles upstream of an irrigation water intake in a standing body of water such as a lake, pond, reservoir.

USE RESTRICTIONS
The Certified applicator supervising the treatment must remain on site for the duration of the application. Do not allow recreational areas (e.g. wading, swimming, boating) and (golfers) within the treatment area while rotenone is being applied (see Placing of Treatment Areas). Staff/streamline/take measures to not apply this product in a way that will result in active rotenone concentrations ≥200 parts per billion (200 ppm) ≥30 minutes formulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected barriers may be in the area during applications (see Placing of Treatment Areas and Re-entering of Treatment Areas). This product must not be applied in a manner to cause or create contamination.

Where practical, users should collect and bury dead fish.

Applications using a boat or other mechanized equipment must follow this product below the water surface. Applications made with aerial, backpack sprayers, drip tape, or hand-held or hand-directed nozzles may reduce this product above the water surface. Malfunction or liquid resistant pumps containing恩 1 gallon or less should not handle more than 25 gallons of undiluted product per day.

Re-entering The Treatment Area
For applications that result in concentrations greater than 0.09 ppm active rotenone (when applying at a rate of 1.18 lb per 1000 ppm of 5% rotenone formulation), handlers re-enter the treatment area, after the following PPE: (1) comfortable over-long-sleeved shirt and pants, (2) chemically resistant boots (gloves), (3) chemically resistant inner boot (tongue), and (4) chemically resistance apron. Duration of PPE requirement for handlers re-entering treated water closely correspond to duration of placental requirements (e.g. PPE requirement and when placed are removed; see Placing of Treatment Areas for written of this label). Excessive water sample may be in place of covering, chemical resistant apron, and chemically resistant apron.

Placing/Clearing Treatment Areas
The Certified Applicator is charge of clearing (or removing) dead fish under fisherman supervision) must placed all areas in the treatment area prior to the Placing of Treatment Area SOP manual. Positive must be placed every 250 feet along the shoreline of the treated area, 12 feet of public access points (e.g. trail, boat, road, and trail), Place must contain the following information: (1) VANGUARD ALSOP, (2) DO NOT ENTER WATER/END ENTIRE AQUA, Pesticide application. (3) TFA Chem Fish Regulator (4) Date of the purpose of the application (5) the start and date of application (6) end date and time of application. (7) "Restriction area (e.g. wading, swimming, boating, fishing) and within the treatment area is prohibited while rotenone is being applied." "Do not enter or walk in treated water while fish is displayed," (8) "Do not consume dead fish from treated water," and (9) the name, address, and telephone number of the responsible agency or entity performing the application. Signs must remain legible during the entire posting period. For lethal (killing) or lethal (fishing) applications of ≥0.01 ppm active rotenone (<1 ppm 5% rotenone formulation), signs can be removed after 12 hours after the applications is complete. For lethal applications >0.01 ppm active rotenone (>1 ppm 5% rotenone formulation), signs can be removed following 24-hour handling demonstrating absence of nausea dead fish or 14 days, whichever is less. Monitoring and Notification Requirements for Water Aquaculture. For treated water bodies used for aquaculture, the Certified Applicator or designee under direct supervision must prohibit introduction of fish or aquatic organisms. Specific concentration requirements are the level of detection for 3 consecutive samples taken no less than 4 hours apart. Detailed guidance for monitoring lethal of radiation in water is provided in the Rottenone SOP Manual (SOP 16).

Releasing Water: For applications <0.04 ppm active rotenone (0.8 ppm 5% rotenone formulation) in water with drinking water intake or biological connections to wells, 7 to 14 days prior to applications, the Certified Applicator or designee under direct supervision must provide notification to the parties responsible for the public water supply or individual private water users against the consumption of treated water until: (1) active rotenone <0.04 ppm determined by analytical chemistry, or (2) Fish of the Salmoide or Chariniformes cannot survive for 24 hours, or (3) in a soil or soil water video: a calculation that active rotenone < 0.04 ppm, or (4) distance or soil water video: time, the application into demonstrates that active rotenone < 0.04 ppm. See Rottenone SOP Manual (SOP 15) for procedures provided. Additional analytical techniques and dilution, distance and travel time criteria.

Specifications to Control Spray Drift
RELEASE DATE: Spray must be released at the lowest height from the crop top protection or use (200 mph).
BOB LOWNIGHT: The boom length must not exceed 20% of the working area of the treated area (20% of the treated area). Current resembles backwash traveling downward slope into its drift area. DWI LIMITATIONS: The water application made with cross wind the water will be displaced downward. The applicator must compensate for this displacement at the downstream edge of the application area by adjusting the path of the treated sprayed (least at least two times the downward edge of treated)
BOUYER SPECIFICATIONS: No long stretch designs to produce target spray drops with fewer driftable days. Apply as a nozzles or sprayer (use ASE STANDARD 512).
APPLICATION SPEED: Do not apply when wind speeds are >12 miles per hour.

DETERMINING TREATMENT RATE
This product was only located at rates and times authorized and approved by the certification. State and fish and wildlife agencies. The actual treatment rate and active rotenone concentration must control fish vary widely depending on the type of water environmental factors including pH, temperature, depth, turbidity, and target species. The

Table 3 lists which follow a special guide for the proper rates and concentrations for complete kills of target species. The Certified applicator must operate within the area using the equipment (similar quality and large target species) or similar species of similar size/shape distribution to the maximum. Detailed guidance guidelines and monitoring equipment for complete kills of the target species. The Certified applicator manual (SOP 3) Rates must be within the range specified on the label.
FOR USE IN PONDS, LAKES AND RESERVOIRS

The tables below are a general guide for the proper rates and concentrations. This product dissipates rapidly biologically and eventually. For complete safety, it is best to apply this material to water bodies that are not thermally-stratified. However, this material will eventually penetrate below the thermocline in thermally-stratified bodies of water.

Computation of Water Body Volume: To determine volume of any given body of water, make a series of transects across the body of water taken at depths at regular intervals. Add the depths and divide by the number of measurement made to determine the average depth. Multiply this average depth by total surface area in order to determine the volume to be treated. Volume is expressed as acre-ft (ac ft) surface area can be determined by Global Positioning System (GPS) instrumentation and topographic maps. See literature SOP Manual for further guidance.

Amount of Tila Chem Fish Regular Needed for Specific Uses:

To determine the approximate amount of product (in pounds) needed, find your "Type of Use" in the first column of the tables below and then divide the corresponding number in the first column, "4.5" (liters) per Gallon (or L)/Liter Liquid into the number of Gallons or L) in your body of water. For example, a normal use of 0.015 (grams) per 1000 gallons of water will require 23 gallons of 5% active ester liquid for 100 Acre-Water.

<table>
<thead>
<tr>
<th>Type of Use</th>
<th>Parts Per Million (ppm)</th>
<th>AU per Product</th>
<th>Active per Gallon</th>
<th>Non-Art. Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>0.1 - 1.0</td>
<td>0.05 - 0.05</td>
<td>6.0 - 1.0</td>
<td></td>
</tr>
<tr>
<td>Tolerant Species 1.0 - 3.0</td>
<td>0.5 - 0.15</td>
<td>36 - 1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tolerant Species 2.0 - 4.0</td>
<td>0.1 - 0.2</td>
<td>1.5 - 0.7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Recommended pre-Mixing and Mixing of Application: Present water with water at a rate of 1/3 of the total amount to be treated. Uniformly apply over water surface or through underwater lines. Divide upper body into manageable sections, delineated by marked buoys or GPS coordinates, and work within 48 hours to avoid destruction. See literature SOP Manual (SCP 8) for additional guidance.

Description: Water treated with this product will destratify (destabilize) under normal conditions within one week to one month depending upon temperature, alkalinity, etc. Rapid destratification can be accomplished by adding potassium permanganate to the water in the same rate as Tila Chem Fish Regular in parts per million, plus enough additional to the organic material of the treated water. See literature SOP Manual (SCP 6) and 7B for guidance.

Restriction after Treatment: Typically, wait 2 to 4 weeks after treatment prior to recontaminating. Place a sample of fish to be stocked in water in a closed bottle in the bottom of the treated water. If the fish are not killed within 24 hours, the water may be recontaminated.

USE IN STREAMS AND RIVERS

In order to treat streams you must: (1) Select the concentration of active ingredient. (2) Compute the flow rate of the stream. (3) Select an exposure scale. (4) Choose dilution of product and calculation of application rate. (5) Estimate the amount of product needed; and (6) Follow the method of application. For precipitation, 0.03% (grams) per Gallon (or L)/Liter Liquid should have an initial product applied and flows 0.01% (grams) per Gallon (or L)/Liter Liquid should have dilution applied product. For streams associated with a treatment of standing body of water to prevent movement of fish from the pond, lake, or reservoir, the treatment should begin before and continue throughout the statement of the pond, lake or reservoir until mixing has occurred.

Concentration of Active Ingredient: Select the concentration of the active ingredient based on the type of use from those listed on the tables below. Example: If you select "normal use" you could select a concentration of 0.05 - 0.1 ppm per gallon. Table – Recommended-recommended treatment concentrations and number of cubic feet per second (cfs) flowing water treated for 4- and 8-hour (hr) periods with one gallon of 5% A.E. product. Adjust amount of product according to the actual storm runoff on ingredient statement on label

<table>
<thead>
<tr>
<th>Type of Use</th>
<th>Parts Per Million (ppm)</th>
<th>AU per Product</th>
<th>Active per Gallon</th>
<th>Non-Art. Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>0.2 - 4.0</td>
<td>0.05 - 0.25</td>
<td>18.4 - 0.9</td>
<td></td>
</tr>
<tr>
<td>Tolerant Species 1.0 - 3.0</td>
<td>0.05 - 0.15</td>
<td>8.2 - 0.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tolerant Species 2.0 - 4.0</td>
<td>0.1 - 0.2</td>
<td>4.6 - 0.23</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurement of Flow Rate for Streams

Select a cross section of the stream where the banks and bottom are relatively smooth and free of obstructions and the flow upstream is laminar. That discharge measurements are achieved using in electronic flow meter and use of the United States Geological Survey Weighted Area Method. Alternatively, divide the stream surface with transverse sections and determine the velocity by dropping a float and measuring the time required to move 18 feet or more. Take at least three readings at each point. To calculate the flow rate from the information obtained above, use the following formula:

\[ Q = AV \times S \times V \]

Where: Q = Flow rate (cfs or m³/s), A = Surface width (ft or m), V = Mean depth (ft or m), S = Distance traveled by float (ft or m), C = Constant (0.3 for rough bottoms and 0.6 for smooth bottoms), T = Mean time (s) for float to travel distance.

Exposure Time and Spacing

Apply returns as a drop for 4 to 8 hours to the flow portion of the stream. Multiple applications into an area along the length of the treated stream, spaced approximately 1/2 to 2 miles apart depending on the water flow (traveled) distance between sites. Multiple sites are used because movement of debris and litter is not consistent and may be used to determine travel times. Cages containing live fish placed
immediately upstream of the downstream application site can be used as a sentinel to assure that lethal conditions exist between the sites.

Amount of Product and Calculation of Application Rate of Undiluted Product:
X = 51 (1.698) or X = 12 (59.91) P
X = 51 per minute of untimed Tilt-Chem Fish Regular applied to stream, P = the flow rate (PSD) and P2 the flow rate (PSD) (see Measurement of Flow Rate for Streams on this 1208090, P = gpm per million decibel USA of Tilt-Chem Fish Regular). Total amount of product applied:
Y = 12 (5991)
Y = total ml of untimed Tilt-Chem Fish Regular required for treatment, X = ml per minute of undiluted product, and H = duration (minutes) of treatment on the discussed product.
X = 72000
X = ml per minute of untimed Tilt-Chem Fish Regular applied to the stream from deep can. Z = volume (ml) of deep can, and H = duration (hours) of treatment.

Method of Application:
The unique nature of every application site require minor adjustments to the method and rate of application. Should these unique conditions require major deviation from the established rule, a special local rule (24 c 1) registration should be obtained from the state. Before application, authorization must be obtained from state and federal Fish and Wildlife Agencies. Since local environmental conditions will vary, consult with the state fish and wildlife agency to ensure the method and rate of application are appropriate for that site.

Contact the local water department to determine if any water intakes are within one mile downstream of the site of stream river, or canal to be treated. If so, coordinate the application with water department to make sure the intakes are closed during treatment and desiccation.

Tilt-Chem Fish Regular can drain directly into the center of the stream. Flow of product should be checked to lead hourly. Backwater, stagnant and spring area of streams should be sprayed by hand with a 1% to 2% solution of 20% insecticide product to ensure a complete coverage. Streams should be treated for 4 to 8 hours in order to clear the treated section of stream of fish. See Rocine SOP Manual for detailed guidelines on application equipment, methods and techniques.

DEACTIVATION:
Flow in a stream and outflow from a treated lake beyond the treatment area must be deactivated with potassium permanganate to minimize exposure beyond the treatment area unless necessary. (See Rocine SOP Manual (SOP 6) for the definition of deactivation treatment area, examples when deactivation with potassium permanganate is unnecessary, and detailed guidance for deactivating with potassium permanganate.

Within 1 to 2 hours after the first flush, determine the bottom stream application site, the riverine can be deactivated with a localized potassium permanganate solution or concrete at a resultant stream concentration of 2 to 4 parts per million, depending on stream degradation, concentration and organic demand of the water. A 25% (10 pounds potassium permanganate to 50 gallons of water) potassium permanganate is employed in a continuous run using the equations:
X = Y (75 61) or X = Y (2 472 67)

X = 50% potassium permanganate solution per minute, Y = gpm of desired permanganate concentration, F1 = stream flow (PSD) or F2 = stream flow (PSD) (see Measurement of Flow Rate for Streams on this 1208090, P = gpm per million decibel USA of Tilt-Chem Fish Regular). Total amount of potassium permanganate per minute, Y = gpm of desired permanganate concentration, H = stream flow (PSD) or F2 = stream flow (PSD).

Flow of potassium permanganate should be checked at least hourly. Low fish can escape immediately above the permanganate application site will show signs of stress signaling the need for beginning deactivation. Deactivation can be determined when repopulated fish survive and show no signs of stress for a least four hours.

Deactivation of treatment by potassium permanganate requires between 4 to 30 minutes contact time (travel time). Caps containing live fish can be placed at these downstream intervals to judge the effectiveness of deactivation. As water temperatures less than 90°F, deactivation may be retarded, requiring a longer contact time.

STORAGE AND DISPOSAL:
Do not contaminate water, food or feed by storage or disposal.

Storage: Store only in original containers in a dry place inaccessible to children and pets. This product will not oxidize and show any deterioration at temperatures down to -20°F and is stable for a minimum of one year when stored in sealed drums of 305 P. This product is not a hazardous waste.

Pesticide Disposal: Pesticide waste are exactly hazardous. Improper disposal of excess pesticide, spillage, misuse, or misuse is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact the State of Environmental Control Agency, or the Hazardous Waste responsibility of the EPA Regional Office for guidance.

Container Handling: Non-refillable container. Do not reuse or reutilize container. Clean container properly before shipping.

For Containers equal to or < 5 Gallons: Triple rinse as follows: Empty the remaining contents into appropriate equipment or a mix tank and drain for 20 seconds after the flow begins to drain. Fill the container 1/2 full with water and recap. Stand for 30 minutes. Pour the remaining contents into appropriate equipment or a mix tank and drain for 20 seconds after the flow begins to drain. Repeat this procedure two more times. Offer for recycling if available or purchase and dispose of in a sanitary landfill, or by incineration.

For containers > 5 Gallons: Triple rinse as follows: Empty the remaining contents into appropriate equipment or a mix tank and drain for 10 seconds after the flow begins to drain. Fill the container 1/2 full with water. Replace and recap. Stand for 48 hours. Turn the container once to one end and tip it back forth several times. Turn the container again to end and tip it back and forth several times. Empty the remaining contents into appropriate equipment or a mix tank and drain for 10 seconds after the flow begins to drain. Repeat this procedure two more times. Offer for recycling if available or purchase and dispose of in a sanitary landfill, or by incineration.

WARRANTY STATEMENT:
Our recommendations for the use of this product are based upon tests to be disclosed to be disclosed. The use of this product being beyond the control of the manufacturer, the guarantee, express or implied, is made as to the effects of each or results to be obtained is not made in accordance with current or established safe practices. To the extent consistent with applicable law, the buyer must assume all responsibilities, including injury or damage, resulting from its misuse as such, or in combination with other materials.