

## HUMAN WARNING

### EMERGENCY FIRST AID:

- In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contact lenses before flushing eyes and hold the eyelids apart during the flushing. Do not rub eyes. Call a physician. Remove and wash contaminated clothing and shoes promptly and thoroughly. Do not attempt to neutralize with chemical agents.
- If inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician.

### INHALATION (Breathing):

- Avoid breathing dust; causes irritation to mucous membranes and may cause asthma-like symptoms.

### INGESTION (Swallowing):

- Do not swallow. Swallowing may cause irritation or burns of the mouth, throat, esophagus and stomach that may cause nausea and vomiting.

### EYE CONTACT:

- Do not get in eyes; considered corrosive to the eyes.

### SKIN CONTACT:

- Avoid contact with skin; considered corrosive to the skin and may cause allergic reaction in sensitive individuals.

### HUMAN PRECAUTIONS:

- Keep out of reach of children
- Wear suitable personal protective equipment including gloves, protective clothing and footwear, goggles, and respirator. See product Material Safety Data Sheet (MSDS) for additional information.
- Use only with adequate ventilation
- May aggravate pre-existing skin and/or respiratory disease

LOT NO:

### ENVIRONMENTAL WARNING:

- Chloramine-T may be hazardous to aquatic life, including invertebrates and algae. Do not release the undiluted product directly into natural waterways.

### PHYSICAL AND CHEMICAL HAZARDS:

- Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source (heat, sparks, or flame) is a potential explosion hazard.
- Sweep up spilled solid material, being careful not to create dust.
- May decompose violently if heated above 266°F (130°C).
- Contact with acids liberates toxic gas.
- In the case of fire, use water fog or spray, dry chemical, foam or carbon dioxide extinguishing agents.

### STORAGE:

- Store at temperatures below 86° F (30° C).
- Store away from foodstuff or animal feed.
- Containers should be kept tightly capped and stored in a cool, dry, well-ventilated area protected from direct sunlight and away from flammable, reducing or oxidizing materials and sources of heat or flame.
- Store in a manner designed to prevent spills that may result in discharge to surface waters.
- Exercise due caution to prevent damage or leakage from the container.

### DISPOSAL:

- Implement procedures for properly containing, cleaning, and disposing of any spilled material.
- Contact your State Environmental Control Agency, or Hazardous Waste Representative at the nearest EPA Regional Office for guidance on disposal of unused product, empty containers, and spilled materials.
- Do not allow undiluted product to escape into sewage or surface water.
- Empty containers should be cleaned of residual drug before disposal or return. Follow label warnings even after container is emptied because empty containers can still contain drug residues.

EXP DATE:

# HALAMID<sup>®</sup> AQUA CHLORAMINE-T POWDER FOR IMMERSION

For control of mortality in freshwater-reared salmonids due to bacterial gill disease, in walleye due to external columnaris disease, in freshwater-reared warmwater finfish due to external columnaris disease.

Net Contents:  
11 Pounds  
(5 Kilograms)

NADA no. 141-423,  
approved by FDA

axcentive

ACTIVE DRUG INGREDIENT  
Chloramine-T trihydrate

GUARANTEED ANALYSIS  
Chloramine-T (C<sub>2</sub>H<sub>4</sub>ClNNaO<sub>2</sub> · 3H<sub>2</sub>O).....98% w/w (minimum)

Keep out of the reach of children

To report suspected adverse events, for technical assistance or to obtain a copy of the MSDS, contact Western Chemical at 1 800-283-5292 or 1-360-384-5898 or info@wchemical.com.

For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at <http://www.fda.gov/AnimalVeterinary/SafetyHealth>.

MANUFACTURED FOR: Axcentive S.A.R.L. For information in the USA contact:  
Western Chemical, 1269 Lattimore Road, Ferndale, WA 98248 USA  
Phone: 1-800-283-5292 or 1-360-384-5898

### FOR FRESHWATER-REARED SALMONIDS

**INDICATIONS:** For the control of mortality in freshwater-reared salmonids due to bacterial gill disease associated with

*Flavobacterium* spp.

**DIRECTIONS FOR USE:** Apply HALAMID<sup>®</sup> AQUA at concentrations of 1.2 to 20 milligrams per liter water (mg/L; equivalent to parts per million (ppm)) in a continuous flow water supply or as a static bath once per day for 60 minutes on consecutive or alternative days for three treatments in fish culture units.

### FOR WALLEYE

**INDICATIONS:** For the control of mortality in walleye due to external columnaris disease associated with

*Flavobacterium columnare*.

**DIRECTIONS FOR USE:** Apply HALAMID<sup>®</sup> AQUA at concentrations of 10 to 20 milligrams per liter water (mg/L; equivalent to parts per million (ppm)) in a continuous flow water supply or as a static bath once per day for 60 minutes on consecutive or alternative days for three treatments in fish culture units.

### FOR FRESHWATER-REARED WARMWATER FINFISH

**INDICATIONS:** For the control of mortality in freshwater-reared warmwater finfish due to external columnaris disease associated with

*Flavobacterium columnare*.

**DIRECTIONS FOR USE:** Apply HALAMID<sup>®</sup> AQUA at a concentration of 20 milligrams per liter water (mg/L; equivalent to parts per million (ppm)) in a continuous flow water supply or as a static bath once per day for 60 minutes on consecutive or alternative days for three treatments in fish culture units.

### USE CALCULATIONS

**For Static Bath Treatment:**

$$\text{HALAMID}^{\circ} \text{ AQUA needed (grams)} = \text{Volume of water to be treated (gallons)} \times \text{Treatment Concentration (ppm or mg/L)} \times 0.0038 \text{ (correction factor)}^1$$

**For Constant Flow (flow-through) Treatment:**

$$\text{HALAMID}^{\circ} \text{ AQUA needed (grams)} = \text{Water Flow (Gallons per minute)} \times \text{Treatment Duration (minutes)} \times \text{Treatment Concentration (ppm or mg/L)} \times 0.0038 \text{ (correction factor)}^1$$

<sup>1</sup>Correction (or conversion) factor is equal to:

$$\frac{3.785 \text{ L/gal}}{1000 \text{ mg/g}}$$

### DIRECTIONS FOR STATIC AND CONTINUOUS FLOW (FLOW THROUGH) TREATMENTS

1. **STATIC TREATMENT:** Shut off water flow to culture unit before adding drug. Completely dissolve HALAMID<sup>®</sup> AQUA in a separate container of culture water and thoroughly mix into the culture unit. The drug solution should be used immediately and not stored. End treatment by flushing system with fresh water. Resume normal flow.
2. **CONTINUOUS FLOW TREATMENT:** Determine flow rate for culture unit. Pre-charge culture unit by administering the amount of drug needed for a static treatment. Meter additional drug solution into culture unit at a concentration and rate necessary to maintain the target dose in the culture unit for the duration of the treatment period (see table above for calculations).

### LIMITATIONS AND CAUTIONS FOR FINFISH USE

1. Before using this drug for the first time, you must inform the appropriate National Pollutant Discharge Elimination System (NPDES) permitting authority of your intentions and of the following information. A water quality benchmark for the protection of freshwater aquatic life has been derived by FDA. The acute benchmark is 0.13 mg/L, which is equivalent to the Secondary Maximum Concentration (one-half of the Secondary Acute Value). The NPDES authority may require an NPDES permit before you can discharge chloramine-T. The water quality benchmark concentration is not a discharge limit, but it may be used by the NPDES authority to derive one for the permit. The acute benchmark should be protective of aquatic life when the receiving water pH is at or above pH 6.5. Additional environmental information on chloramine-T and the benchmark value are available in an environmental assessment posted at <http://www.fda.gov/AnimalVeterinary/DevelopmentApprovalProcess/EnvironmentalAssessments/ucm300656.htm>.
2. Before conducting treatments with HALAMID<sup>®</sup> AQUA, user should test the sensitivity of the finfish species and the life stage to the treatment concentration in a small number before treating the entire group.
3. Walleye fingerlings may be more sensitive than walleye fry to HALAMID<sup>®</sup> AQUA.
4. Avoid feeding finfish immediately before or during exposure.
5. Additional aeration may be necessary to maintain adequate oxygenation levels during static treatments.
6. Do not use in earthen ponds or systems that cannot be flushed after treatment.
7. If used in recirculating systems, bypass biofilter during treatment and flushing. Effects on biofilter and water quality have not been evaluated. Ensure that drug is flushed from the system after treatment.

WITHDRAWAL PERIOD: ZERO DAYS