



# 35% PEROX-AID®

(hydrogen peroxide)  
Concentrated Immersion Solution  
396.1 mg hydrogen peroxide/mL  
External Microbicide

**ACTIVE DRUG INGREDIENT**  
hydrogen peroxide

**USES**

**FOR FRESHWATER-REARED FINFISH EGGS**  
For the control of mortality in freshwater-reared finfish eggs due to saprolegniasis (fungi of the family Saprolegniaceae).

**FOR FRESHWATER-REARED COLDWATER FINFISH**  
For the control of mortality in freshwater-reared coldwater finfish (all life stages) due to saprolegniasis associated with the fungi in the family Saprolegniaceae.

**FOR FRESHWATER-REARED SALMONIDS**  
For the control of mortality in freshwater-reared salmonids due to bacterial gill disease associated with *Flavobacterium branchiophilum*.

For the treatment and control of *Gyrodactylus spp.* in freshwater-reared salmonids.

**FOR FRESHWATER-REARED COOLWATER FINFISH**  
For the control of mortality in freshwater-reared coolwater finfish due to external columnaris disease associated with *Flavobacterium columnare*.

For the control of mortality in freshwater-reared coolwater finfish fingerlings and adults due to saprolegniasis associated with the fungi in the family Saprolegniaceae.

**FOR FRESHWATER-REARED WARMWATER FINFISH**  
For the control of mortality in freshwater-reared warmwater finfish due to external columnaris disease associated with *Flavobacterium columnare*.

For the control of mortality in freshwater-reared warmwater finfish fingerlings and adults due to saprolegniasis associated with the fungi in the family Saprolegniaceae.

**DESCRIPTION**

35% PEROX-AID® (hydrogen peroxide) is a concentrated immersion solution containing 396.1 mg hydrogen peroxide per mL.

**GUARANTEED ANALYSIS**

Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>) ..... 35% (W/W)  
Water and inert ingredients ..... 65% (W/W)

**WITHDRAWAL PERIODS**

▶ No withdrawal period is required when used according to labeling. ◀

**USER SAFETY WARNINGS**

Not for use in humans. Keep out of reach of children.

**INHALATION (Breathing):**

- Avoid breathing vapor or mist; causes irritation of the nose, throat and lungs; exposure may be fatal.

**INGESTION (Swallowing):**

- Do not swallow; this product is harmful if swallowed; large exposures may be fatal; can burn mouth, throat, and stomach.

**EYE CONTACT:**

- Do not get in eyes; causes eye burns and possible blindness; effects may be delayed.

**SKIN CONTACT:**

- Avoid contact with skin; causes skin irritation or burns.

**HUMAN PRECAUTIONS**

- Wear chemical safety goggles.
- Wear neoprene, butyl, or vinyl gloves.
- Keep out of reach of children.
- Use only in adequate ventilation.
- Keep containers tightly closed when not in use.
- Wear suitable protective clothing.

**EMERGENCY FIRST AID**

- In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Call a physician.
- Remove and wash contaminated clothing and shoes promptly and thoroughly.
- 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.
- Bring the package insert with you to the health care professional.

**NOTE TO PHYSICIAN:** If swallowed, large quantities of oxygen may be released quickly. The distension of the stomach or esophagus may be injurious. Insertion of a gastric tube may be advisable.

**ANIMAL SAFETY WARNINGS**

Do not use this drug product to treat northern pike *Esox lucius* or paddlefish *Polyodon spathula* of any age.  
Do not use this product to treat pallid sturgeon fry.

**LIMITATIONS AND CAUTIONS FOR FINFISH USE**  
1. Before conducting treatments with 35% PEROX-AID®, users 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.

2. Use with caution on walleye *Sander vitreus*.

3. Use with caution on ornamental fish.

4. Because finfish sensitivity to 35% PEROX-AID® increases with increasing water temperature, consider administering initial treatments at the lower end of the treatment regimen or reducing water temperature before treatment.

**LIMITATIONS AND CAUTIONS FOR FINFISH EGG USE**  
Some strains of rainbow eggs are sensitive to 35% PEROX-AID® treatment at a time during incubation concurrent with blastopore formation through closure, about 70 to 140 Daily Temperature Units, °C. Consider withholding treatment or using alternate therapeutant during that sensitive time period to reduce egg mortalities due to 35% PEROX-AID® toxicity.

Although it is unknown whether eggs of other freshwater-reared salmonids or other freshwater-reared finfish other than rainbow trout also have a similar sensitive period, hatchery personnel unfamiliar with the effects of 35% PEROX-AID® treatments on the species they are culturing should carefully monitor eggs treated with 35% PEROX-AID®.

**ENVIRONMENTAL WARNINGS**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authorities are notified in writing prior to discharge. Notify the NPDES authority that a water quality benchmark for the protection of freshwater aquatic life has been derived for hydrogen peroxide by FDA following EPA guidelines. The acute benchmark value for hydrogen peroxide is 0.7 mg/L. Water quality benchmark concentrations are not discharge limits, but may be used by the NPDES authority to derive such limits for the permit. Additional environmental information on hydrogen peroxide and the benchmark value are available in an environmental assessment available at <https://animaldrugsatfda.fda.gov/adafda/app/search/public/document/downloadEA/123>.

- Mixtures with combustible or flammable materials may ignite easily, burn fiercely, or may explode in contaminated closed containers.
- When placed in an unsuitable container, or introduced to other contaminants, elevated temperatures above 38°C (100°F) can increase the decomposition rate of the product.
- In case of fire involving this product, use water only.
- Heat or contamination may cause decomposition and result in dangerous pressure.
- In case of spill or leak, flush away by flooding with water applied quickly to entire spill or leak.

**OTHER WARNINGS**

Do not use in earthen ponds with no water exchange.

Flow to the culture unit must be sufficient to rapidly flush 35% PEROX-AID® from the culture unit after treatment. Consult with Syndel when treating finfish in recirculating systems for proper procedures regarding flushing characteristics.

Use with caution in recirculating aquaculture systems due to potential for impacts on the biofilter. Monitor water quality parameters (e.g., ammonia, nitrate) during and after treatment. Consider bypassing biofilter if possible.

**DIRECTIONS**

1. Dissolve 35% PEROX-AID® in culture water before addition to the culture unit to achieve required dose based on active ingredient. Consider using aeration to help disperse the chemical and to ensure adequate oxygenation levels.
2. Before treatment, remove dead eggs or finfish and clean rearing units to be treated.

The formula to determine the correct volume of 35% PEROX-AID® required for treatment is:

$$\frac{\text{Treatment conc. mg/L (as H}_2\text{O}_2\text{)}}{396,100 \text{ mg H}_2\text{O}_2 / \text{L 35\% PEROX-AID}^\circ} \times \text{treatment vol. (L)} \times 1,000 \text{ mL/L} = \text{ml of 35\% PEROX-AID}^\circ$$

DIRECTIONS (continued)

1. FRESHWATER-REARED FINFISH EGGS  
Apply 35% PEROX-AID® at the full concentration in the table below in continuous flow water supply of finfish egg incubation units for 15 minutes. Treat finfish egg incubation units once per day on consecutive or alternate days until hatch to control mortalities associated with external saprolegniasis in a tiered dosing system as follows:

USE	SPECIES/CLASS	DOSE (as H <sub>2</sub> O <sub>2</sub> )	DURATION (per day)
For the control of mortality due to saprolegniasis associated with fungi in the family Saprolegniaceae	All cold and coolwater freshwater-reared finfish eggs <sup>1</sup>	500-1,000 mg/L	15 minutes
	All freshwater-reared warmwater finfish eggs <sup>1</sup>	750-1,000 mg/L	15 minutes

<sup>1</sup> An initial bioassay on a small number is recommended before treating the entire group. The amount of 35% PEROX-AID® required for treatment is dependent on the volume of water treated (which equals the water flow rate times 15 min; 10 L/min x 15 = 150L).  
Example calculation:  
 $\frac{500 \text{ mg/L (as H}_2\text{O}_2\text{)}}{396,100 \text{ mg H}_2\text{O}_2\text{/L 35\% PEROX-AID}^\circ} \times 150\text{L} \times 1,000 \text{ mL/L} = 189 \text{ mL 35\% PEROX-AID}^\circ$

2. FRESHWATER-REARED FINFISH  
Apply 35% PEROX-AID® at the full concentration in the table (milligrams hydrogen peroxide per liter of culture water [mg/L; equivalent to parts per million (ppm)]) in continuous flow water supply or as a static bath in finfish culture units once per day on alternate days for three treatments.

USE	SPECIES/CLASS	DOSE (as H <sub>2</sub> O <sub>2</sub> )	DURATION (per day)
For the control of mortality due to saprolegniasis associated with fungi in the family Saprolegniaceae	In freshwater-reared coldwater finfish including salmonids (all life stages)	75 mg/L	60 minutes
	In freshwater-reared coolwater finfish fingerling and adults		
	In freshwater-reared warmwater finfish fingerling and adults		
For the control of mortality due to bacterial gill disease associated with <i>Flavobacterium branchiophilum</i>	In freshwater-reared salmonids	100 mg/L	30 minutes
		or	
		50-100 mg/L	60 minutes
For the treatment and control of <i>Gyrodactylus spp.</i>	In freshwater-reared salmonids	100 mg/L	30 minutes
		or	
		50 mg/L	60 minutes
For the control of mortality due to external columnaris disease associated with <i>Flavobacterium columnare</i>	In freshwater-reared coolwater and warmwater finfish fingerling and adults	50-75 mg/L	60 minutes
	In freshwater-reared coolwater finfish fry and warmwater finfish fry	50 mg/L	60 minutes

HOW SUPPLIED

35% PEROX-AID® is available as: 5-gallon container (19L), 55-gallon drum (208L), and 328-gallon container (1240L).

STORAGE, HANDLING AND DISPOSAL

- Avoid outdoor storage.
- Store in original container in dry location.
- Keep out of sun and away from heat.
- Never use pressure to empty – container is not a pressure vessel.
- Keep open lights, fire, and sparks away from container.
- Do not add any other products to this container.
- Never return unused 35% PEROX-AID® to the container – dilute with plenty of water and discard.
- When empty, rinse container thoroughly with clean water before discarding.

NOTICE: Since empty containers retain product residue, follow label warnings even after container is empty.  
Store in a manner designed to prevent spills to surface waters.  
Implement procedures to properly contain, clean, and dispose of any spilled material.

Hydrogen peroxide is a strong oxidizer and a characteristic, hazardous waste as defined by RCRA (40 CFR 261). Contact your State Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance on disposal.  
DO NOT flush to sewer unless diluted to 1% or less concentration due to explosion hazard. Do not contaminate surface water when disposing of equipment washwaters or rinsate. Empty containers may contain residues and should be washed with water prior to disposal.

QUESTIONS/COMMENTS

**For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident, CALL CHEMTREC, DAY OR NIGHT 1-800-424-9300.**

To report side effects or for technical assistance, or to obtain a copy of the SDS, contact Syndel at 1-800-283-5292 or [www.syndel.com](http://www.syndel.com). For additional information about reporting side effects for animal drugs, contact FDA at 1-888-FDA-VETS or online at <http://www.fda.gov/reportanimalae>.



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