

95.05.03

SALARTECT 500

Fish Louse Treatment

For the Control of Sea Lice on Salmon in Fish Farms

RESTRICTED

GUARANTEE:

Hydrogen Peroxide 50%

REGISTRATION NO. 24077 PEST CONTROL PRODUCTS ACT

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

DANGER CORROSIVE

NET CONTENTS:

USE OF THIS PRODUCT IS LIMITED TO:
PUBLIC AND /OR GOVERNMENT HEALTH OFFICIALS,
QUALIFIED VETERINARIANS
AND
OTHER TRAINED PERSONNEL

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CANADIAN AGENT:
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NOTICE TO USER:

This control product is to be used only in accordance with the directions for use on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

NATURE OF RESTRICTION:

This product is to be used only in the manner authorized; consult local pesticide regulatory authorities about use permits which may be required. This product should be used only by, or under the direct supervision of, a licensed veterinarian.

RESTRICTED USES:

Salartect 500 Fish Louse Treatment is effective for the removal of Sea Lice (*Lepeophtheirus* spp. and *Caligus* spp.) in sea-farmed salmonids. Salartect 500 Fish Louse Treatment does not remove all growth stages, therefore it should not be used prophylactically. It should be used to treat fish infested with post-chalimus growth stages and before serious skin damage is evident. Repeat treatments may be necessary.

INSTRUCTIONS FOR USE:

Salartect 500 Fish Louse Treatment is administered as an external bath treatment. Salartect 500 Fish Louse Treatment should be added as quickly as possible. Fish to be treated should be starved for at least 24 hours pre-treatment.

The optimum treatment to remove infestations of sea lice is immersion in a solution of Salartect 500 Fish Louse Treatment giving a minimum exposure concentration of 1500 ppm of hydrogen peroxide for a maximum of 20 minutes. Treatment time should be shortened if concentration exceeds 1800 ppm and/or water temperature is higher than 13 deg. C. If concentration exceeds 2000 ppm, stop treatment immediately.

The fish to be treated should be crowded into a small area of the production net and encircled with a tarpaulin. Fish should not be crowded to the point where scale loss occurs. Water temperature and dissolved oxygen levels will dictate the stock density in the treatment area. Supplemental oxygen should be supplied during crowding and treatment.

The volume of water entrapped should be calculated (surface area of treatment area times the depth of the enclosed pen minus the fish biomass = cubic metre) and the estimated quantity of Salartect 500 Fish Louse Treatment required to achieve a concentration of 1500 ppm of hydrogen peroxide should be added using a Salartect Dispersal System.

NOTE: 2.5 litres/3.0 kgs of Salartect 500 Fish Louse Treatment supplies 1500 ppm H₂O₂ per cubic metre of water. The Salartect Dispersal System is recommended for the addition of Salartect 500 Fish Louse Treatment.

Representative water samples from the treatment area should be taken at regular times during the treatment period and tested to determine the concentration of hydrogen peroxide. The first sample should be taken 5 minutes after the start of the addition of Salartect 500 Fish Louse Treatment to the fish pen. The requirement to add more Salartect 500 Fish Louse Treatment or shorten the treatment period is based on these analytical results. Concentrations can be reduced by pumping fresh sea water into the treatment enclosure.

CONTRA-INDICATIONS AND OPERATIONAL PRECAUTIONS:

Hydrogen peroxide has a short term adverse affect on fish gills. This is aggravated when gills have been damaged or compromised pre-treatment. Treatments should not be carried out if; 1) there has been or is an algal or plankton bloom, or 2) there is high organic and/or metal loading in the water of the treatment pens. Treatments should not be considered if the Secchi disc reading is less than 4 metres. If there is any doubt, it is advisable to have histology studies carried out on samples of gill before treatment. Net changes, grading and other management procedures that stress fish should be avoided the week before treatment.

Crowding of fish as per the treatment instructions may stress fish. Dissolved oxygen meters must be used to monitor oxygen levels at all times. Supplemental oxygen should be supplied to the pen during the crowding period and the setting of the tarpaulin. The oxygen supply may be stopped if the dissolved oxygen level rises more than 30% above the ambient level. Greater care is required in monitoring dissolved oxygen levels and stress as water temperatures increase.

Irrespective of concentration of Salartect Fish Louse Treatment achieved, extended exposure times are toxic to fish. Treatment times should not be extended beyond 20 minutes from the start of the first addition of Salartect to the treatment pen. A sample of water from the treatment area should be taken and analyzed for hydrogen peroxide concentration between 2 and 5 minutes after treatment (i.e. removal of the tarpaulin) to ensure rapid dispersal of any residual Salartect. If necessary (i.e. concentration of H₂O₂ > 200 ppm), take immediate steps to flush treatment area with fresh sea water using appropriate physical agitation.

NOTE: Only Brenntag approved titration systems should be used for calculating treatment concentrations of Salartect Fish Louse Treatment.

OPERATOR PRECAUTIONS:

KEEP CHILDREN AWAY FROM PRODUCT, CONTAINERS AND APPLICATION EQUIPMENT.

Salartect 500 Fish Louse Treatment is an oxidising agent and will cause severe burns to skin and eyes. The use of full PVC-based personal safety equipment including, body suit, boots, gloves, full face mask and/or goggles, etc. by all personnel involved in, or in the vicinity during, the handling, loading, mixing and application of the product is strongly recommended. Wash thoroughly with soap and water after handling product and before smoking or eating. Harmful if swallowed. Avoid inhalation of fumes.

All clothing and equipment should be washed with copious amounts of clean water after use. Do not contaminate food, feed or water bodies by the storage or disposal of the product or by the cleaning of equipment.

Ensure all connections are tight and free of leaks before using Salartect Dispersal Systems. Contamination and/or spillage of Salartect 500 Fish Louse Treatment can cause violent chemical reactions and/or fire. Before use, all operators should have read and understood this label and the

product Material Safety Data Sheet.

DO NOT use absorbent materials to absorb spillage. All containers should be kept sealed and out of direct sunlight when not in use.

FIRST AID:

IF IN EYES OR ON SKIN: Flush affected area with plenty of clean water and seek medical attention immediately. Remove contaminated clothing as soon as possible.

IF INHALED: Remove affected person to fresh air. Apply artificial respiration, if indicated. Transport victim to hospital immediately.

IF SWALLOWED: Contact a physician or poison control centre immediately. If conscious, give plenty of water to drink and transport to hospital immediately. DO NOT give anything by mouth to an unconscious person.

STORAGE:

KEEP OUT OF REACH OF CHILDREN. Store product in original container in a cool place away from food, feed or other pesticides. Protect from prolonged exposure to direct sunlight. Store away from flammable materials. Do not store bulk product for extended periods. In case of leakage or spill, flush area with clean water and collect spilled liquid/rinsate in plastic, aluminium or stainless steel containers (i.e. Not Iron). DO NOT use absorbent materials to absorb spillage.

A clean water supply should be readily available for dealing with spills and supplying showers and/or eyebaths.

DISPOSAL PROCEDURES:

Do not re-use empty container. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Dispose of the container in accordance with provincial requirements. For information on the disposal of unused or unwanted product and the clean up of spills, contact the regional office of Environmental Protection, Environment Canada.

NOTICE TO BUYER:

Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product, and accepts the product on that condition.

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