

94.08.15

ALTOSID(R) LIQUID LARVICIDE

An Insect Growth Regulator for Mosquito Control

RESTRICTED

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

GUARANTEE:

(S)-Methoprene [isopropyl (2E, 4E, 7S)-11-methoxy-3,7,
11-trimethyl-2, 4-dodecadienoate] 5.0%

USE OF THIS PRODUCT IS LIMITED TO PUBLIC HEALTH OFFICIALS,
MOSQUITO ABATEMENT OFFICIALS, AND OTHER TRAINED PERSONNEL OF
PUBLIC MOSQUITO PROGRAMS.

REGISTRATION NO. 13797 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 4 L

SANDOZ AGRO CANADA, INC.
SUITE 302, PLAZA 4, 2000 ARGENTIA ROAD
MISSISSAUGA, ONTARIO L5N 1W1

NOTICE TO USER

This control product is to be used only in accordance with the
directions 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.

GENERAL INFORMATION

ALTOSID LIQUID LARVICIDE prevents emergence of adult floodwater

mosquitoes. ALTOSID LIQUID LARVICIDE must be applied to 2nd, 3rd, or 4th larval instars of floodwater mosquitoes to prevent adult emergence. Treated larvae continue normal development to the pupal stage where they die. This insect growth regulator has no effect when applied to pupae or adult mosquitoes. ALTOSID LIQUID LARVICIDE has sufficient field life to be effective at recommended rates when applied to larval stages under varying field conditions.

INSTRUCTIONS FOR USE - MIXING INSTRUCTIONS

1. SHAKE WELL BEFORE USING. ALTOSID LIQUID LARVICIDE may separate on standing and must be thoroughly agitated prior to dilution.
2. Do not mix with oil; use clean equipment.
3. Partially fill spray tank with water; then add the recommended amount of ALTOSID LIQUID LARVICIDE; agitate and complete filling. Mild agitation during application is desirable.
4. Spray solution should be used within 48 hours; always agitate before spraying.

METHODS OF APPLICATION

Aerial: Use the recommended amount of ALTOSID LIQUID LARVICIDE listed below in sufficient water to give complete coverage. Five (5) to forty-five (45) liters of spray solution per hectare is usually satisfactory. Do not apply when weather conditions favor drift from areas treated.

Ground: Determine the average spray volume used per hectare by individual operators and/or specific equipment. Mix ALTOSID LIQUID LARVICIDE in the appropriate volume of water to give the recommended rate per hectare recommended below.

RATES OF APPLICATION

For effective mosquito control, apply 219 to 293 ml of A.L.L./hectare, as directed.

TANK MIX COMBINATION

A.L.L. may be tank mixed with *Bacillus thuringiensis* variety israelensis (B.t.i.) liquid formulations, containing 3000 AA Units or 1200 IT Units per milligram (such as TEKNAR(R) HP-D or its equivalent) to control all mosquito larval stages (instars). The ratio of B.t.i. to A.L.L. should range from 6:1 to 12.5:1

(volume/volume). For example, to prepare a 12.5:1 tank mix, add 1 litre of A.L.L. to 12.5 litres of B.t.i.. Higher concentrations of B.t.i. (e.g., 12.5 B.t.i.: A.L.L. ratio) should be applied when species such as Aedes spp. and Anopheles spp. are present or when early instar (i.e. 1st and 2nd) larvae predominate. Higher concentrations of A.L.L. in the ratio (i.e. the 6 B.t.i.: 1 A.L.L. ratio) should be used when species such as Culex spp. or Culiseta spp. are present or when late instar (i.e. 3rd and 4th) larvae predominate.

The tank mix solutions can be applied at rates of 150 mL to 1200 mL/hectare, according to the following table.

Tank Mix Application Rate Table

FOR USE IN:	RATE REQUIRED FOR CONTROL:
Floodwater, pastures, standing pools and ditches	0.15-0.3 litres/hectare (1.5-3 mL/100m ²)
Tidal water and salt marshes, catch basins and storm water retention areas	0.3-0.6 litres/hectare (3-6 mL/100m ²)
Water polluted with sewage, water with moderate organic content and water with a high level of suspended solids	0.6-1.2 litres/hectare (6-12 mL/100m ²)

NOTE: Use higher rates when population numbers are high or the organic content of the water is elevated.

Always refer to the B.t.i. product label for precautions, restrictions and use instructions.

SITES OF APPLICATION

Typical sites include floodwater in pastures and non-crop areas, freshwater swamps and marshes, woodland pools and meadows, dredging soils sites, drainage areas, waste treatment and setting ponds, ditches, and other natural and manmade depressions. Around estuarine areas, treat high salt marsh or tidal marsh above high tide water level.

PRECAUTIONS:

Wash thoroughly with soap and water after handling and before smoking or eating. May cause moderate eye irritation. Avoid contact with eyes or clothing. The use of protective equipment (e.g. gloves, safety glasses, etc.) while handling product is

strongly recommended.

Do not contaminate food, feed or water bodies by the storage or disposal of product or by the cleaning of equipment.

Do not use in water which may be used for immediate human or livestock drinking purposes.

FIRST AID:

If swallowed - Call Physician or Poison Control Centre immediately. Have material removed by lavage. If any symptoms develop, which appear related to exposure, treat symptomatically. If on skin - Wash affected area with soap and water for 15 minutes. If in eyes - Flush eyes with plenty of water. Call a Physician if irritation persists.

STORAGE:

Store in a cool place away from food, feed or other pesticides. KEEP OUT OF REACH OF CHILDREN. In case of leakage or spill, soak up with sand or another absorbent material and dispose in accordance with local and provincial regulations.

DISPOSAL PROCEDURES:

Rinse the emptied container thoroughly and add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on the disposal of unused, unwanted product and the cleanup of spills, contact the regional office of Conservation and 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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