

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (77-567)
WASHINGTON, D.C. 20460

EPA REGISTRATION NO.	DATE OF ISSUANCE
20954-133	3-15-85
TERM OF ISSUANCE	
NAME OF PESTICIDE PRODUCT	
Alto Liquid Larvicide	

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Zoecon Corporation
975 California Ave.
P.O. Box 10975
Palo Alto, CA 94304

160/14320/
18/1

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an endorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend and or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 20954-133" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

BEST AVAILABLE COPY

Timothy A. Gardner
Product Manager (17)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Enclosure

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL *Timothy A. Gardner* DATE 3-15-85

ALTOSID LIQUID LARVICIDE

An Insect Growth Regulator for Mosquito Control

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

INERT INGREDIENTS:.....95.0%

Total.....100.0%

Formulation contains 0.86 lb/gal (103 g/liter) active ingredient

*U.S. Patents 3,904,662 and 3,912,815

E.P.A. Reg. No. 20954-

E.P.A. Est. No. 20954-CA-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Because of the unique mode of action of ALTOSID LIQUID LARVICIDE successful use requires familiarity with special techniques recommended for application timing and treatment evaluation. See Guide to Product Application or consult local mosquito abatement agency.

NET CONTENTS:

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ACCEPTED with COMMENTS in EPA Letter Dated

MAR 15 1985

Zoecon Corporation, A Sandoz Co. Palo Alto, California 94304

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

20954-133

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

STORAGE: Store in a cool place. Store product away from other pesticides food and feed. In case of leakage or spill, soak up with sand or another absorbent material.

DISPOSAL: Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food or feed by storage or disposal.

INSTRUCTIONS FOR USE:

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 48n hours; always agitate before spraying.

RECOMMENDED APPLICATIONS

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Introduction: 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. For further information, see Guide to Product Application.

METHODS OF APPLICATION

Aerial: Use the recommended amount of ALTOSID LIQUID LARVICIDE listed below in sufficient water to give complete coverage. One-half to five gallons of spray solution per acre is usually satisfactory. Do not apply when weather conditions favor drift from areas treated.

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

APPLICATION RATE

Apply 3 to 4 fluid oz. of ALTOSID LIQUID LARVICIDE per acre (219 to 293 ml/hectare) in water as directed.

APPLICATION SITES

Pastures: ALTOSID LIQUID LARVICIDE may be applied after each flooding without removal of grazing livestock.

Rice: ALTOSID LIQUID LARVICIDE must be applied to 2nd, 3rd and/or 4th instar larvae of mosquitoes found in rice, usually within 4 days after flooding. Use only where multiple flooding rice culture is practiced. ALTOSID LIQUID LARVICIDE treatment may be repeated with each flooding. Do not apply after rice reaches the heading stage of growth.

Intermittently Flooded Noncrop Areas: ALTOSID LIQUID LARVICIDE may be applied as directed above when flooding may result in floodwater mosquito hatch.

Typical sites include freshwater swamps and marshes, woodland pools and meadows, dredging spoil sites, drainage areas, waste treatment and settling ponds, ditches, and other natural and manmade depressions. Around estuarine areas, treat high salt marsh or tidal marsh at high tide water level.

In dense vegetation or canopy areas, apply an ALTOSID LIQUID LARVICIDE sand mixture using standard granular dispersal equipment. For detailed preparation instructions, refer to Guide to Product Application.

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MIXING AND HANDLING INSTRUCTIONS

1. Add the measured amount of ALTOSID LIQUID LARVICIDE to a spray tank partially filled with water, mix and complete filling with recommended quantity of water.
2. Use diluted spray solution within 48 hours of mixing. Agitate before each use.

WARRANTY

Zoecon Corporation warrants that the chemical composition of this product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. Zoecon makes no other warranty, express or implied, concerning the use of this product other than as indicated on the label. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given on the label.