



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

MAR 5 1997

Ms. Jacqueline L. Sherman  
General Manager  
CTX, Inc.  
481 Scotland Road  
McHenry, IL 60050

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Dear Ms. Sherman:

Subject: Deletion of Unsupported Malathion Uses  
Chem-Tox Mal 50 OS  
EPA Reg. No. 45385-66  
Labeling Submitted August 10, 1992 and Corrected  
Applications of June 6, 1993 and September 14, 1994  
Federal Register Notice of November 30, 1994

The amended labeling submitted August 10, 1992 and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, As Amended (FIFRA), is acceptable, provided that you:

Submit one copy of your final printed label incorporating the following corrections before you release the product for shipment.

1. In the directions for use outside of farm buildings and dairy barns, delete the reference to walls, ceilings and stanchions. It implies use of the product inside of these structures, a use which is not being supported for malathion.

2. Under the precautionary statements, make the following corrections.

a. Delete the statements, "Remove pets and cover fish bowls before spraying." This statement implies use of the product inside domestic dwellings, a use which is not being supported for malathion.

b. Delete the statement, "When applying this product wear a mask or respirator of a type recommended by U.S. Bureau of Mines to give adequate protection against this material." Based on the information in our files regarding the toxicity profile of malathion, this protective equipment is not necessary for the subject product and does not appear on the label previously accepted for the product.

c. Delete the statement, "Do not allow contact with treated surface until sprays have dried." Under the 1988 malathion registration standard, this restriction was a labeling

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requirement for indoor use, a use which has been deleted from the product labeling.

3. Under "Environmental Hazards", make the following corrections.

a. Correct the first two Environmental Hazards statements ("This product is toxic to \_ \_ \_ ." and "Do not apply directly to \_ \_ \_ ".) to read as stated below.

"This product is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

b. Delete the out-of-place wording, "surface until sprays have dried."

4. Add the following aquatic use restrictions to the directions for mosquito larvacide use. These restrictions are being required in lieu of conducting residue chemistry studies under 171-4 (Magnitude of the Residue in Fish and Shellfish and Magnitude of the Residue in Drinking and Irrigation Water).

"Broadcast use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially."

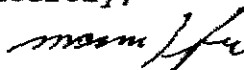
If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended label constitutes acceptance of this condition.

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

Submit your updated current Confidential Statement of Formula (CSF), EPA Form 8570-4) for our files showing your current source of the malathion used to formulate the subject product. The most recent CSF in our files which is dated February 2, 1987 lists a product which has since been canceled.

The draft labeling received with your corrected application of September 14, 1994 is noted. However, since this labeling still bears the unsupported uses you are deleting, it cannot be accepted.

Sincerely,



William W. Jacobs, Ph. D.  
Acting, Product Manager Team 14  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

# CHEM-TOX MAL 50-OS

contains cythion\*

An oil soluble Malathion concentrate containing 4.5 lbs. of Malathion per gallon.  
For formulating Thermal Fogging and Mist Spraying Oils for Mosquito Control Work and Outdoor Application.

ACTIVE INGREDIENTS:	
Malathion (O,O-Dimethyl dithiophosphate of diethyl mercaptosuccinate)	50.00%
INERT INGREDIENTS:	50.00%
TOTAL:	100.00%

\*contains aromatic petroleum distillates-45.05% inert ingredients - 4.95%  
 \*\* cythion - Reg. TM - American Cyanamid Company  
 EPA Reg. No. 45385-66

EPA Est. No. 45385-IL-01

ACCEPTED  
 WITH COMMENTS  
 by EPA Letter Dated  
 MAR 5 1997  
 Under the Federal Insecticide, Fungicide, and Plant Disease Act  
 45385-66

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Avoid breathing spray mist. Do not get in eyes, skin or clothing. Wash thoroughly after handling. Avoid contamination of feed and foodstuff. Do not use on household pets or humans. Remove pets and cover fish bowls before spraying. Do not smoke while spraying. General: When applying this product wear mask or respirator of a type recommended by U.S. Bureau of Mines to give adequate protection against this material. Wear protective clothing to minimize skin exposure. Do not allow contact with treated surface until sprays have dried.

**STATEMENT OF PRACTICAL TREATMENT:** If swallowed- call physician or poison control center immediately. Do not induce vomiting because of possible aspiration hazard. Do not induce vomiting or give anything by mouth to an unconscious person. If inhaled- remove victim to fresh air. Apply artificial respiration if indicated. If on skin - remove contaminated clothing and wash affected areas with soap and water. If in eyes - flush eyes with plenty of water. Call a physician immediately. Note to Physician: Malathion, upon repeated, prolonged, careless use, may cause cholinesterase inhibition. Atropine is antidotal.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish, birds, and other wildlife. Do not apply directly to water or wetlands (i.e. swamps, bogs, marshes, and ponds). Drift and runoff may be hazardous to aquatic organisms in area near the application site. Do not contaminate water when disposing of equipment wash waters. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment areas. surface until sprays have dried.

**PHYSICAL & CHEMICAL HAZARDS:** Do not pour, use spill or store near heat or open flame.

### DIRECTION FOR USE

It is a violation of the Federal Law to use this product in a manner inconsistent with its labeling.

**STORAGE & DISPOSAL:** Avoid storage conditions that might alter the composition or usefulness of the pesticide, e.g. temperature extremes, excessive moisture or humidity, heat, sunlight, friction or contaminating substances or media. Keep pesticide container closed in a cool, dry, and locked cabinet or room. **PESTICIDE DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. Pesticide Wastes are toxic. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Metal Containers - Triple rinse (or equivalent). The offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic Containers - 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.

**FOR FLY CONTROL OUTSIDE FARM BUILDINGS AND DAIRY BARN:** Apply the spray at the rate of one gal. per 1000 sq.ft. on painted surfaces and two gallons per 1000 sq.ft. on unpainted surfaces where flies alight or congregate; walls ceilings, stanchions, window sills, fences, etc. Use a large droplet spray that wets all surfaces to the point of run off. Repeat as necessary.

**MOSQUITO CONTROL:** Airplane Application - Apply 3% to 5% Malathion in fuel oil at the rate of 1/2 lb. actual Malathion per acre. Use 2 1/2 gal. of 3% Malathion per acre or use 1 1/2 gal. of 5% Malathion per acre. **MIST SPRAYING AND LARVICIDING:** Apply a 3% to 5% Malathion in fuel oil at the rate of 1/2 lb actual Malathion per acre. Use 2 1/2 gal. of 3% Malathion per acre or use 1 1/2 gal. of 5% Malathion per acre. Repeat as necessary. **THERMAL FOGGING:** Apply at the rate of 0.075 lb. to 0.1 lb. of actual Malathion per acre. For 3% solution this will be at the approximate rate of 1 gallon per 3.5 acres.

**DILUTION DIRECTIONS FOR THERMAL FOGGING AND MIST SPRAYING OILS:** For mosquito control work, use a 3% to 5% Malathion concentration in no. 2 fuel oil. For a 3% Malathion fogging or mist spraying oil use 1 part of MAL 50-OS to 22 parts fuel oil. To make a 5% Malathion fogging or mist spraying oil add 1 part of MAL 50-OS to 13 parts of fuel oil. Fogging compounds and mist spraying compounds of up to 5% concentration of Malathion can be made in no. 2 fuel oil without using co-solvents. **NOTICE:** When diluting MAL 50-OS with mineral seal oil, deodorized aliphatic or kerosene type petroleum oils use one part aromatic type solvent to four parts kerosene type oils.

**FOGGING INSTRUCTIONS:** For maximum effectiveness general outdoor fogging should be carried out under surface inversion conditions which usually exist only from one hour after sunset, through the night, and until sunrise. During this time, providing the wind velocity is under 3-4 miles per hour, the fog will remain in the area and close to the ground the required time to be fully effective. Outdoor fogging, in windy (over 4 mph) weather will be ineffective as the tiny fog particles will be too widely dispersed by the wind. Repeat as necessary.

### Terms of Sale or Use on Purchase of use of this product:

**WARRANTY:** Manufacturer and Seller warrants that this product, as of the time of sale, conforms to the ingredient statement on the label, and is reasonably fit for the purpose set forth in the Directions for Use. Except as so warranted the product is sold as is. Manufacturer makes no other warranty express or implied. **EXCUSE FROM NON-CONTROLLABLE CONDITIONS:** Because of certain critical conditions created or incurred by buyer or user or over which manufacturer has no control, buyer and user as a condition of purchase or use, assume responsibility for and release manufacturer from, liability arising out of handling or use of the product attributable to such causes. No person is authorized to vary or waive any statement contained herein.

CTX, Inc. McHenry, IL 60050  
 Order Code: OC-530

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