

NOT REVIEWED
In Accordance with FR Notice 80-2.
Based on Draft Labeling Dated
6/21/88

CHEM-TOX MAL 50-OS

contains cythion*

An oil soluble Malathion concentrate containing 4.5 lbs of Malathion per gallon
For general pest control use and for formulating thermal fogging and mist spraying oils for
Mosquito control work

Helps to control: ROACHES, ANTS, SPIDERS, SILVERFISH, CRICKETS, CLOVER MITES, FLIES
AND MOSQUITOES

For use in: HOMES, APARTMENTS, GARAGES, WAREHOUSES, INSTITUTIONS, FOOD
PROCESSING PLANTS, RESTAURANTS, FARM BUILDINGS, DAIRY BARN, AND MOSQUITO
CONTROL WORK

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

KEEP OUT OF REACH OF CHILDREN CAUTION

See side panel for additional precautionary statements

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. Food should be removed or covered during treatment or thoroughly cleaned before using. Do not use in edible product areas of food processing plants, restaurants, or other areas where food is commercially prepared or processed. Do not use on household pets or humans. Remove pets and cover fish bowls before spraying. Do not smoke while spraying. **KEEP CHILDREN AND PETS AWAY FROM TREATED AREAS UNTIL SURFACES ARE DRY.**

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, aquatic invertebrates, and aquatic life stages of amphibians. Do not apply directly to water except as specified on this label. 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.

PHYSICAL & CHEMICAL HAZARDS

Do not pour, use spill or store near heat or open flame

BEST AVAILABLE COPY

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). Then 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 the control of **ROACHES, ANTS, SPIDERS, SILVERFISH, CRICKETS, CLOVER MITES, and EARWIGS** in and about homes, thoroughly treat door and window casings, baseboards, sinks, and all cracks and crevices and other areas frequented by insects. Treatment of ground adjacent to buildings, foundations and lower side walls will aid in the control of ants, spiders, mites, and crickets. Repeat as necessary. When used indoors, use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surfaces until sprays have dried. **FOR FLY CONTROL IN AND AROUND FARM BUILDINGS AND DAIRY BARN**s. Apply the spray at the rate of one gal. per 1000 sft on painted surfaces and two gallons per 1000 sft 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, add 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.

CHEM-TOX, INC
BARRINGTON, IL 60010

OC-530
ORDER CODE

1970

4385-66 P. 110

110

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS 767) WASHINGTON, DC 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE 6-31-88
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT	

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

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

204762

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 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.

1. Read the entire label carefully before use.
2. Make the following statements listed below which you must include on the label:
 - a. "EPA Registration No. 4385-66."
 - b. "This pesticide is toxic to fish, aquatic invertebrates, and aquatic birds. Do not apply directly to water or to areas that surround or drain to water. Do not contaminate water when disposing of equipment washwaters."

BEST AVAILABLE COPY

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL <i>[Signature]</i>	DATE 6-21-88
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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 area.

- c. The following restriction for indoor use of the subject product must be added to the label.

Use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surface until sprays have dried.

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 section 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.

John T. Tice
Acting Product Manager (16)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosures

CHEM-TOX MAL 50-05

((BACK PANEL))

DIRECTIONS FOR USE can't

For the control of roaches, ants, spiders, silverfish, crickets, clover mites, and earwigs in and about homes, thoroughly treat door and window casings, baseboards, sinks, and all cracks and crevices and other areas frequented by insects. Treatment of ground adjacent to buildings, foundations and lower side walls will aid in the control of ants, spiders, mites, and crickets. Repeat as necessary.

FOR FLY CONTROL IN AND AROUND FARM BUILDINGS AND DAIRY BARN: Apply the spray at the rate of one gallon per 1000 square feet on painted surfaces and two gallons per 1000 square feet 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 at the rate of 1/2 lb. of 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 .075 lb. or 0.1 lb. of actual Malathion per acre. For the 3% solution this will be at the approximate rate of 1 gallon per 2 acres. For the 5% 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 with thermal fogging and mist spraying equipment, use a 3% to 5% Malathion concentration in No.2 fuel oil.

-- For a 3% Malathion fogging or mist spraying oil add 1 part of MAL 50-05 with 22 parts fuel oil.

-- To make 5% Malathion fogging or mist spraying oil add 1 part MAL 50-05 to 13 parts of No.2 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 50-05 with mineral seal oil, deodorized aliphatics 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 only 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.

CHEM-TOX MAL 50-05

(SIDE PANEL)

DIRECTION FOR USE

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

STORAGE & DISPOSAL (12 PT)

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, 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). Then 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.

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.

DIRECTIONS FOR USE con't.

DILUTION DIRECTIONS: General Pest Control Work: For general pest control work use 3% Malathion made by diluting one part MAL 50-05 with 22 parts kerosene type solvent which should include one part aromatic type solvent and four parts deodorized kerosene.

CHEM-TOX MAL 50-05

((SIDE PANEL))

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. Foods should be removed or covered during treatment or thoroughly cleaned before using. Do not use in edible product areas of food processing plants, restaurants, or other areas where food is commercially prepared or processed. Do not use on household pets or humans. Remove pets and cover fish bowls before spraying. Do not smoke while spraying. KEEP CHILDREN AND PETS AWAY FROM TREATED AREAS UNTIL SURFACES ARE DRY.

STATEMENT OF PRACTICAL TREATMENT

if swallowed - call a 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. Do not contaminate water by cleaning of equipment or disposal of waste. This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

PHYSICAL AND CHEMICAL HAZARDS

Do not pour, use, spill or store near heat or open flame.

Order Code: OC-530

NEW PRODUCT LABEL APPLICATION - FOR E.P.A.

FOR: CHEM-TOX, INC., Barrington, IL. 60010

DATE: 8/19/86

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUN 21 1988

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide
registered under EPA Reg. No.
45385-66

(((FRONT PANEL)))

Net Contents:
1 gal. 5 gal.
30 gal. 55 gal.

CHEM-TOX
MAL 50-0S
CONTAINS CYTHION**

AN OIL SOLUBLE MALATHION CONCENTRATE CONTAINING 4.5 LBS. OF MALATHION PER GALLON. FOR GENERAL PEST CONTROL USE AND FOR FORMULATING THERMAL FOGGING AND MIST SPRAYING OILS FOR MOSQUITO CONTROL WORK.

Helps to control: ROACHES, ANTS, SPIDERS, SILVERFISH, CRICKETS, CLOVER MITES, FLIES AND MOSQUITOES.

For use in: HOMES, APARTMENTS, GARAGES, WAREHOUSES, INSTITUTIONS, FOOD PROCESSING PLANTS, RESTAURANTS, FARM BUILDINGS, DAIRY BARNs, AND MOSQUITO CONTROL WORK.

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. T.M. American Cyanamid Company

| KEEP OUT OF REACH OF CHILDREN |
| CAUTION | (18 PT)

See side panel for Additional Precautionary Statements.

Chem-Tox, Inc.
Barrington, IL. 60010

EPA Reg. No. 45385-
EPA Est. No. 45385-IL-01

NET: -----