

PM14

5905-493

File  
10/11



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

MAR 31 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Judy Oldham  
HELENA CHEMICAL CO.  
6075 Poplar Ave. - Suite 500  
Memphis, TN 38119

**Subject: Label Amendment Submission of 00/00/00 in Response to PR Notice 93-7  
EPA Reg. No. 5905-493  
SETRE DIMETHOATE 4EC SYSTEMIC INSECTICIDE**

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



**Recycled/Recyclable**  
Printed with Soy/Canoles ink on paper that  
contains at least 10% recycled fiber

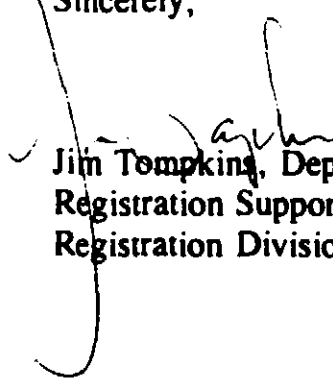
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

Judy Oldham  
HELENA CHEMICAL CO  
6075 POPLAR AVE SUITE 500  
MEMPHIS TN 38119

Comment for: EPA Reg Nr.5905-493  
SETRE DIMETHOATE 4EC SYSTEMIC INSECTICIDE

The following specific comments pertain to your WPS  
labeling submission concerning the product  
cited above:

Remove the statement "Do not apply this product in a way  
that will contact workers or other persons, either directly  
or through drift. Only protected handlers may be in the  
area during application." from its current position within  
the Agricultural Use Box and place it above the Agricultural  
Use Box.

Correct the typographical errors circled on your proposed  
label.

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Revised for WPS 7/28/93

# DIMETHOATE 4.E.C. SYSTEMIC INSECTICIDE

**ACTIVE INGREDIENT:**

Dimethoate (O,O-dimethyl S-(N-methylcarbamoylmethyl)  
(phosphorodithioate) ..... 44.8%

**INERT INGREDIENTS:** ..... 55.2%

**TOTAL** ..... 100.0%

This product contains 4 lbs. dimethoate per gallon.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
amended, for the pesticide  
registered under EPA Reg. No.  
5905-493

**KEEP OUT OF REACH OF CHILDREN  
WARNING - AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you.)

SEE ADDITIONAL PRECAUTIONARY STATEMENTS INSIDE BOOKLET.

EPA REG. NO. 5905-493  
EPA EST. NO.

NET CONTENTS:

**MANUFACTURED BY  
HELENA CHEMICAL COMPANY  
MEMPHIS, TN 38119**

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING - AVISO**

May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. May cause eye injury. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing.

**STATEMENT OF PRACTICAL TREATMENT**

**Organophosphate**

**If Swallowed:** Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person. Get medical attention.

**If on Skin:** Wash with plenty of soap and water. Get medical attention if irritation persist.

**If in Eyes:** Flush with plenty of water for 15 minutes. Get medical attention.

Note to Physician: This product may cause cholinesterase inhibition. Antidote is Atropine.

**PERSONAL PROTECTIVE EQUIPMENT**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

Mixers and loaders must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-230), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS), for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is highly toxic to bees exposed to direct treatment or residues 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.

This pesticide is toxic to wildlife and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Run off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning equipment or disposal of wastes.

**PHYSICAL OR CHEMICAL HAZARDS**

Flammable. Keep away from heat and open flame.

**CHEMIGATION PROHIBITION**

Do not apply this product through any type of irrigation system.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

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Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Par 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Keep unprotected persons out of treated areas until sprays have dried.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in a cool, dry area.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse. Then offer for recycling, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**DIMETHOATE 4 E.C.** is a clear liquid. When added to water, it will disperse readily and will remain physically stable with a minimum amount of agitation. Do not store **DIMETHOATE 4 E.C.** below 32°F. as it may tend to crystallize. Avoid storage above 90°F., as prolonged storage above 90°F. may cause some loss in grade.

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

Apply this product only as specified on this label.

**Application equipment:** **DIMETHOATE 4 E.C.** can be applied by any pressure sprayer that will give uniform distribution of the spray such as ground sprayers, aerial sprayers or portable sprayers.

**Aerial Application:**

Automatic flagging devices should be used whenever feasible.

If human flaggers are employed, they must wear the protective clothing and respirator specified on this label.

This product is intended for use by the commercial grower or commercial applicator in conventional hydraulic sprayers, ground applicators or airplane sprayers. When applying by ground equipment, use the recommended amount in sufficient water for thorough coverage: by aircraft, in 1 to 10 gallons of water unless otherwise specified. Do not apply when weather conditions favor drift of spray from areas treated. Repeat applications as necessary unless otherwise specified. Consult your state experiment station or state extension service for proper timing of applications.

## FRUIT

**APPLES: Apple Maggot\*, Codling Moth\*\*** - 1 pt. per acre. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom. Apply at petal-fall and every 10 to 14 days thereafter until control is achieved. Do not apply within 28 days of harvest. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom.

\* Under heavy infestations, some sting injury may occur.

\*\* Midwest and eastern states only.

**APPLES, PEARS: Aphids, Leafhoppers, Mites (except Rust Mites)** - 1/2 to 1 pt. per acre. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom.. Do not apply within 28 days of harvest.

**GRAPEFRUIT, LEMONS, ORANGES, TANGERINES: Aphids** - Ground Equipment: 1/2 to 1 pt. per acre. Apply as an outside coverage spray. Aircraft Equipment: 1 to 2 qts. per acre in 5 to 10 gallons water. Do not apply within 15 days of harvest. **Mites (except Rust Mites)** - Ground Equipment: 1/2 to 1 pt. per acre. Apply as a thorough distribution coverage spray. Do not apply within 15 days of harvest. **Scales (except Black or Snow)** - Ground Equipment: 1 to 1-1/2 pts. per acre. Apply as a thorough coverage spray. Do not apply within 45 days of harvest. **Thrips** - Ground Equipment: 1/2 to 1 pt. per acre. Apply as a mist spray. Aircraft Equipment: 1 to 2 qts. per acre in 5 to 10 gallons water. Do not apply within 15 days of harvest. **Whiteflies** - Ground Equipment: 1 pt. per acre. Apply as a thorough distribution coverage spray. Do not apply within 15 days of harvest.

Do not apply during bloom period. Do not use on citrus seedlings. Make no more than 2 applications to mature fruit. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom.

## NUTS

**PECANS: Aphids, Mites, Leafhoppers** - Ground Equipment: 2/3 pt. per acre. **Aphids** - Aerial Equipment: 2/3 pt. per acre in a minimum of 5 gallons of finished spray. Do not graze livestock in treated groves. Do not apply within 21 days of harvest.

## VEGETABLE CROPS

**BEANS (GREEN, LIMA, SNAP, DRY): Aphids, Bean Leaf Beetle, Grasshoppers, Leafhoppers, Leaf Miners, Lygus Bugs, Mexican Bean Beetle, Mites** - 1/2 to 1 pt. per acre. Beans may be harvested on day of application. Do not feed treated vines. Do not apply if the crop or weeds in the treatment area are in bloom.



**BROCCOLI, CAULIFLOWER:** Aphids - 1/2 to 1 pt. per acre. Do not apply within 7 days of harvest.

**CABBAGE:** Aphids - 1/2 to 1 pt. per acre. Do not apply within 3 days of harvest.

**HEAD LETTUCE:** Aphids, Leafhoppers, Leaf Miners - 1/2 pt. per acre. Do not apply within 7 days of harvest.

**CELERY (FLORIDA):** Leaf Miners - Ground Equipment: 1 pt. per acre. Do not apply within 7 days of harvest.

**LUPINE:** Aphids, *Lugus* Bugs - 1/2 to 1 pt. per acre. Apply when Aphids first appear. Make only 2 applications per season. Lupine may be harvested on day of application. Do not feed or graze, forage or hay. Do not apply if the crops or weeds in the treatment area are in bloom.

**LEAF LETTUCE, SPINACH, COLLARDS, KALE, TURNIP (GREENS AND ROOTS), MUSTARD GREENS, SWISS CHARD, ENDIVE (ESCAROLE):** Aphids, Leafhoppers, Leaf Miners - 1/2 pt. per acre. Do not apply within 14 days of harvest.

**MELONS (except Watermelons):** Aphids, Leafhoppers, Leaf Miners, Thrips - 1 pt. per acre. Do not apply within 3 days of harvest.

**PEAS:** Aphids - 1/3 pt. per acre. Peas may be harvested on day of application. Do not feed or graze hay within 21 days after last application when a stationary viner is used. Do not feed or graze when a mobile viner is used. Do not apply if the crop or weeds in the treatment area are in bloom.

**PEPPERS:** Aphids, Leaf Miners, Maggots - 1/2 to 2/3 pt. per acre. Peppers may be harvested on day of application.

**POTATOES:** Aphids, Grasshoppers, Leaf Miners, Leafhoppers - 1/2 to 1 pt. per acre. Potatoes may be harvested on day of application.

**TOMATOES:** Aphids, Leaf Miners, Leafhoppers - 1/2 to 1 pt. per acre. Do not apply within 7 days of harvest.

Where cabbage worms and cabbage loopers are a problem, the above rates are compatible with endosulfan, malathion or parathion. Use in accordance with the manufacturer's directions for control of these insects.

#### FIELD CROPS

**ALFALFA:** Aphids, Grasshoppers, Leafhoppers, *Lygus* Bugs, Reduction of Alfalfa Weevil Larvae - 1/2 to 1 pt. per acre. Do not apply to alfalfa in the bloom period. Do not apply within 10 days of harvest or pasturing. Make only one application per cutting. Effective only on cutting to which applied. Do not apply if the crop or weeds in the treatment area are in bloom.

**FIELD CORN:** Banks Grass Mites (excluding Trans-Pecos area of Texas), - 2/3 to 1 pt. per acre. Aerial Application: Spray over the foliage when mites appear. Apply above rates in 1 or more

gallons of water per acre. **Grasshoppers** - 1 pt. per acre. Ground Application: Apply above rate in 20 to 40 gallons of water per acre. Aerial Application: Apply above rate in 1 or more gallons of water per acre. Apply as necessary. Make no more than three applications per year. Do not feed or graze within 14 days of last application. Do not apply within 14 days of harvest. Do not apply to corn during the pollen-shed period.

**COTTON (GROWN IN CALIFORNIA AND ARIZONA): Lygus Bugs, Leafhoppers, Black Fleahoppers** - 1/2 to 1 pt. per acre. Repeat applications should not be made at intervals closer than 14 days. Make only 2 applications per season at the higher rate. Do not feed treated forage or graze livestock on treated fields. Do not apply within 14 days of harvest.

**COTTON: Aphids, Mites, Thrips, Fleahoppers** - 1/4 to 1/2 pt. per acre. **Lygus Bugs** - 1/2 pt. per acre. Repeat applications should not be made at intervals closer than 14 days. Do not feed treated forage or graze livestock on treated fields. Do not apply within 14 days of harvest.

**SAFFLOWER (GROWN IN CALIFORNIA AND ARIZONA): Aphids, Leafhoppers, Plant Bugs including Lygus and Thrips** - 1/2 to 1 pt. per acre. Repeat applications should not be made at intervals closer than 14 days. Make only 2 applications per season at the higher rate. Do not apply within 14 days of harvest.

**SORGHUM (MILO): Aphids** - 1/2 to 1 pt. per acre. Ground Application: Apply above rates in 25 to 40 gallons of water per acre. Aerial Application: Apply above rates in 1 or more gallons of water per acre. **Banks Grass Mites (excluding Trans-Pecos area of Texas)** - 1 pt. per acre. Ground Application: Apply above rate in 25 to 40 gallons of water per acre. Aerial Application: Apply above rate in 1 or more gallons of water per acre. **Sorghum Midge** - 1/4 to 1/2 pt. per acre. Aerial Application: Apply above rates in 1 or more gallons of water per acre. Do not feed or graze within 28 days of last application. Make no more than 3 applications as needed per season.

**SOYBEANS: Mexican Bean Beetle, Leafhopper, Spider Mites, Bean Leaf Beetle, Three Cornered Alfalfa Hopper\*** - 1 pt. per acre. Aerial Application: Apply recommended rate in a minimum of 2 gallons of water per acre. **Grasshoppers** - 1 pt. per acre. Ground Application: Apply rate in 25 to 40 gallons of water per acre. Aerial Application: Apply rate in 1 or more gallons of water per acre. Do not feed or graze within 5 days of last application. Do not apply within 21 days of harvest.

\*Note - Three Cornered Alfalfa Hopper not registered for use in California.

**WHEAT: Aphids (Greenbugs)** - 1/2 to 3/4 pt. per acre. **Brown Wheat Mite** - 1/3 to 1/2 pt. per acre. **Grasshoppers** - 3/4 pt. per acre. Do not apply within 14 days of grazing immature plant. Do not harvest grain within 35 days of last application. Do not make more than 2 applications per season.

### SEED CROPS

**ALFALFA: Aphids, Leafhoppers, Lygus Bugs, Grasshoppers, Reduction of Alfalfa Weevil Larvae** - 1/2 to 1 pt. per acre. Do not apply to alfalfa in the bloom period. Do not feed or graze livestock in treated crops, hay, threshings or stubble within 10 days of application.

**ATTENTION: DO NOT USE ON SEED ONIONS, SEED CARROTS, OR SEED BERMUDA GRASS!**

**CITRUS TREES - NONBEARING AND NURSERY STOCK**

Consult your state agricultural experimental station or state agricultural extension service for proper timing of applications.

**CITRUS (CALIFORNIA, ARIZONA) GRAPEFRUIT, LEMONS, ORANGES, TANGERINES: Aphids, Thrips - Foliar Spray:** 1 pint per acre. Repeat applications as necessary. May be applied in the year grapefruit, lemon, orange and tangerine trees begin to bear fruit. Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom. **Soil Drench (Trees 1 to 3 years old):** 2 quarts per acre applied in the furrow or basin around the base of tree. Apply when insect injury to new growth appears. Do not apply to trees that will bear fruit within one year.

**MAGGOT SPRAYS:** For the control of Housefly maggots, mix 4 oz. of DIMETHOATE 4 E.C. in 5 quarts of water and apply as a coarse spray or with a sprinkling can to fly breeding areas, such as poultry droppings in caged-layer houses, garbage dumps and manure piles. Repeat application as additional manure or garbage is added.

**DO NOT CONTAMINATE FEED AND FOODSTUFFS, DRINKING FOUNTAINS, LITTER AND FEED TROUGHS. DO NOT USE IN MILK PROCESSING ROOMS, INCLUDING MILK HOUSES AND MILK STORAGE ROOMS. DO NOT USE IN HOMES.**

**CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES**

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against the Company exceed the price of the product which causes the alleged loss, damage, injury, or other claim. The Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income.

The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.