

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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APR 15 1992

Ms. Judy Oldham
Helena Chemical Company
6075 Poplar Avenue, Suite 500
Memphis, TN 38119

Dear Ms. Oldham:

Subject: Setre Dimethoate 4EC
EPA Registration No. 5905-493
Your Letter Dated March 4, 1992

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the revised labeling:

a. The request to use the 35 day preharvest interval on wheat is acceptable only if the following restriction is added:

"Do not make more than 2 applications per season."

b. The ~~ENVIRONMENTAL HAZARDS~~ ^{SECOND PARAGRAPH OF THE} statement must be changed to read:

"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."

c. Under the section, FRUIT - GRAPEFRUIT, LEMONS, ORANGES, TANGERINES, the reentry interval should be four (4) days so should read:

SYMBOL	"Do not enter CONCURRENCES groves within 4 days of last application."						
SURNAME							
DATE							

MADDEN Disk #3 4/15/92

d. In accordance with the DIMETHOATE, Pesticide Registration Standard of March 1983 the following restrictions must be added to the use directions:

1. Foliar application to alfalfa, peas, and beans:
"Do not apply if the crop or weeds in the treatment area are in bloom."
2. Foliar application to corn: "Do not apply to corn during the pollen-shed period."
3. Foliar application to apple and citrus: "Do not apply when trees or substantial numbers of weeds in the orchard (grove) are in bloom."

e. Remove the sentences on the last page of the label that read:

"Do not use in the edible products area of food processing plants, restaurants or other areas where food is commercially processed. Do not use in service areas when food is exposed."

2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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.

Pursuant to 40 CFR §152.130, you may distribute or sell the subject product under the previously approved labeling for a period of 18 months from the date of this letter.

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

Sincerely yours,



Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (H7504C)

enclosure

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.

KEEP OUT OF REACH OF CHILDREN WARNING - AVISO

AL USARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente.

SEE ADDITIONAL PRECAUTIONARY STATEMENTS INSIDE BOOKLET.

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

NET CONTENTS:

MANUFACTURED BY
HELENA CHEMICAL COMPANY
MEMPHIS, TN 38119

ACCEPTED
with **COMMENTS**
in EPA Letter Dated:

APR 15 1992

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

~~5905-493~~ 5905-493

**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. Wear goggles, face shield, or safety glasses. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

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 persists.

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.

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 or wetland not under the forest canopy. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Flammable. Keep away from heat and open flame.

DIRECTIONS FOR USE

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

CHEMIGATION PROHIBITION

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

RE-ENTRY

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers.

Written or oral warnings must include the following information:

BEST AVAILABLE COPY

WARNING

(Insert area or field description) treated with Dimethoate on (insert date of application). Do not enter treated areas without protective clothing until sprays have dried. In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to Dimethoate and describe his condition. For further information see the Statement of Practical Treatment section of the pesticide label.

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.

Required Clothing and Equipment for Application:

All applicators, flaggers and all personnel involved with the mixing, loading, and transferring operations must wear the protective clothing and equipment enumerated below. Pilots are exempt from this requirement. The protective clothing and equipment to be worn is as follows:

- a. Impermeable gloves (for example: rubber or plastic covered reinforced gloves.)
- b. Boots or boot covers.
- c. Long-sleeved shirt and long pants.
- d. Wide-brimmed hat.
- e. Respirators must be worn by flaggers and mixer/loaders.

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.

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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 during the bloom period. Apply at petal-fall and every 10 to 14 days thereafter until control is achieved. Do not apply within 28 days of harvest.

* 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 during the bloom period. 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 enter treated groves within 2 days of last application.

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.

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

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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, Lygus 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.

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 boom period. Do not apply within 10 days of harvest or pasturing. Make only one application per cutting. Effective only on cutting to which applied.

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.

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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.

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 BERMUODA GRASS!

CITRUS TREES - NONBEARING AND NURSERY STOCK

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

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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 enter treated groves within 4 days of last application. **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 use in the edible products area of food processing plants, restaurants or other areas where food is commercially processed. Do not use in service areas when food is exposed. **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.

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