



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

JUN 17 1993

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Barbara Brown
DREXEL CHEMICAL CO.
P. O. Box 9306
Memphis, TN 38109

Subject: Label Amendment Submission of 07/30/93 in Response to PR Notice 93-7
EPA Reg. No. 19713-231
DREXEL DIMETHOATE 4EC

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.

BEST AVAILABLE COPY



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

Page 2

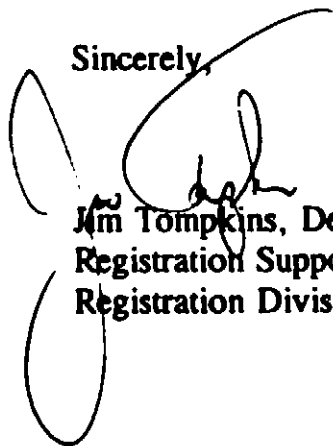
Submit the final printed labeling via the U.S. Postal Service to:

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,

A handwritten signature in black ink, appearing to read "Jim Tompkins", is written over the typed name and title.

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

Barbara Brown
DREXEL CHEMICAL CO
BOX 9306
MEMPHIS TN 38109

Subject: Comment Sheet for EPA Reg Nr.19713-231
DREXEL DIMETHOATE 4EC

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.

The glove requirement for early entry in the Agricultural Use Requirements box on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Chemical-resistant gloves, such as barrier laminate or butyl rubber". The exact location is shown in Sections F and G on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

Correct the typographical errors circled on your proposed label.

DIMETHOATE 4EC**Systemic Insecticide - Miticide**

DO NOT STORE BELOW 45°F

ACTIVE INGREDIENT:

Dimethoate (0,0-Dimethyl S-[N-(methylcarbamoyl)methyl] phosphorodithioate.....43.5%
 INERT INGREDIENTS:.....56.5%
 TOTAL:.....100.0%

1 Gallon Contains 4.0 pounds of Dimethoate

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 in detail.)

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

SHAKE WELL BEFORE USING

ACCEPTED
 with COMMENTS
 In EPA Letter Dated

EPA Reg. No. 19713-231
 EPA Est. No. 19713-MS-1

Revisions 7/93

VAR | | 1994
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act
 as amended, for the pesticide
 registered under EPA Reg. No.
19713-231

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.

IF ON SKIN: ~~Remove contaminated clothing and~~ wash skin with soap and water.

IF INHALED: Remove victim to fresh air. Apply artificial respiration if breathing has stopped. Call a physician.

IF IN EYES: Flush with water for at least 15 minutes. Get medical attention.

NOTE TO PHYSICIAN: Atropine is antidotal. Pralidoxime chloride may be effective as an adjunct to atropine. This product may cause cholinesterase inhibition. Treatment should be directed at the control of symptoms and clinical condition. Dimethoate is an organophosphate insecticide/miticide.

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

WARNING: Harmful or fatal if swallowed. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes and clothing. May cause eye irritation. Use only with adequate ventilation. Do not contaminate food and feed products.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category B 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 or Butyl Rubber
- 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 or Butyl Rubber
- 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 pesticide (MSHA/NIOSH approval number prefix TC-23), or a canister approved for pesticide (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.

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USER SAFETY RECOMMENDATIONS

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticides get 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 product is toxic to fish, shrimp, crabs, and other wildlife. 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. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

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 if bees are visiting the treatment area.

CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame. Do not use this product in or on electrical equipment due to possibility of shock hazard.

DIRECTIONS FOR USE

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

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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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 intervals. 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.

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

Personal Protective Equipment 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, soils or water is:

Coveralls

Waterproof gloves

Chemical-resistant footwear plus socks

Protective eyewear

Chemical-resistant headgear for overhead exposure

AERIAL APPLICATION

Apply at least one gallon of finished spray per acre. Apply at least 5 gallons finished spray per acre in California.

Automatic flagging devices should be used whenever feasible.

BEFORE USING, READ WARNING STATEMENTS ON CONTAINER LABEL.

This product is intended for use in conventional hydraulic sprayers, ground applicators or approved sprayers. When applying by ground equipment use the recommended amount in sufficient water for thorough coverage; by aircraft in 2 to 10 gallons of water unless otherwise specified. Do not apply when weather conditions favor drift or 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.

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FRUIT CROP	PEST CONTROLLED	DIMETHOATE 4EC RATE	INTERVAL (DAYS) BETWEEN LAST APPLICATION/HARVEST
Apples	Apple maggot, Codling moth	1 pt./100 gals. water	28 Do not apply during the bloom period. Apply at petal-fall and every 10 to 14 days thereafter until control is achieved. Under heavy infestations, some sting injury may occur. Midwest and eastern states only: Do not graze livestock in treated orchards.
Apples, Pears	Aphids, Leaf-hoppers, mites, (except rust mites)	1/2 to 1 pt. /gal. water	28 Do not apply during the bloom period. Do not graze livestock in treated orchards.
Grape-fruit, Lemons, Oranges, Tangerines	Aphids	Ground Equipment: 1/2 to 1 pt./100 gals. water apply as an outside coverage spray. Aircraft Equipment: 1 to 2 qt./A. in 5 to 10 gals. water.	15
	Mites (except rust mites)	Ground Equipment 1/2 to 1 pt./ 100 gals. water. Apply a thorough distribution coverage spray.	15
	Scales (except black or snow)	Ground Equipment: 1 to 1-1/2 pt./100 gals. water. Apply as a thorough coverage spray.	45
	Thrips	Ground Equipment: 1/2 to 1 pt./ 100 gals. water. Aerial Equipment: 1 to 2 qt./A. in 5 to 10 gals. water	15

FRUIT CROP	PEST CONTROLLED	DIMETHOATE 4EC RATE	INTERVAL (DAYS) BETWEEN LAST APPLICATION/HARVEST
	Whiteflies	Ground Equipment: 1 pt./100 gals. water. Apply as a thorough distribution coverage spray.	15

Do not apply during bloom period. Do not use on citrus seedlings. Make no more than 2 applications to mature fruit. Do not graze livestock in treated orchards.

NUTS CROP	PEST CONTROLLED	DIMETHOATE 4EC RATE	INTERVAL (DAYS) BETWEEN LAST APPLICATION/HARVEST
Pecans	Aphids, mites, leafhoppers	2/3 pt./A.	21 Do not graze livestock in treated groves.

VEGETABLE CROPS	PEST CONTROLLED	DIMETHOATE 4EC RATE	INTERVAL (DAYS) BETWEEN LAST APPLICATION/HARVEST
Beans (green, lima, snap, dry)	Aphids, grasshoppers, leaf miners, Lygus bugs, mites, bean leaf beetle, Mexican bean beetle	1/2 to 1 pt./A.	Beans may be harvested on day of application. Do not feed treated vines.
Broccoli, Cauliflower	Aphids	1/2 to 1 pt./A.	7
Cabbage	Aphids	1/2 to 1 pt./A.	3
Head Lettuce	Aphids, leafhoppers, leaf miners	1/2 pt./A.	7
Celery (Florida)	Leaf miners	Ground Equipment: 1 pt./A.	7

VEGETABLE CROPS	PEST CONTROLLED	DIMETHOATE 4EC RATE	INTERVAL (DAYS) BETWEEN LAST APPLICATION/HARVEST
Leaf Lettuce Spinach, Collards, Kale, Turnip (greens & roots). Mustard Greens, Swiss Chard, Endive (Escarole)	Aphids, leafhoppers leaf miners	1/2 pt./A.	14
Melons (except water-melons)	Aphids, leafhoppers, leaf miners, thrips	1 pt./A.	3
Water-melons	Aphids, leafhoppers, leaf miners	1/2 to 1 pt./A.	3
Peas	Aphids	1/3 pt./A.	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,	1/2 to 2/3 pt./A.	Peppers may be harvested on day of application.
Potatoes	Aphids, grass-hoppers, leaf miners, leaf-hoppers	1/2 to 2/3 pt./A.	Potatoes may be harvested on day of application.
Tomatoes	Aphids, leaf miners, leaf-hoppers	1/2 to 1 pt./A.	7

FIELD CROPS	PEST CONTROLLED	DIMETHOATE 4EC RATE	INTERVAL (DAYS) BETWEEN LAST APPLICATION/HARVEST
Alfalfa	Aphids, grass-hoppers, leaf-hoppers, plant bugs including Lygus, reduction of alfalfa weevil larvae	1/2 to 1 pt./A.	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.
Field Corn	Banks grass mites (excluding Trans Pecos area of Texas), aphids, beer beetle, corn rootworm adult, *two-spotted spider mite	2/3 to 1 pt./A. Aerial application Spray over the foliage when mites appear. Apply above rates in 1 or more gals. water/A.	14 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 to corn when bees are in fields.
	Grass-hoppers	1 pt./A. Ground Application, Apply above rate in 20 to 40 gals. of water per acre. Aerial Application: Apply above rate in 2 or more gals. of water.	
Cotton (grown in CA and AZ)	Leafhoppers, fleahoppers, plant bugs including Lygus	1/2 to 1 pt./A.	14 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.

FIELD CROPS	PEST CONTROLLED	DIMETHOATE 4EC RATE	INTERVAL (DAYS) BETWEEN LAST APPLICATION/HARVEST
Cotton	Aphids, mites, thrips	1/4 to 1/2 pt./A.	14 Repeat applications should not be made at intervals closer than 14 days. Do not feed treated forage or graze livestock on treated fields.
	Plant bugs including Lygus	1/2 pt./A.	
Safflower (grown in CA and AZ)	Aphids, leaf-hopper, thrips, plant bugs including Lygus	1/2 to 1 pt./A.	14 Repeat applications should not be made at intervals closer than 14 days. Make only 2 applications per season at the higher rate.
Sorghum (milo)	Aphids (greenbugs)	1/2 to 1 pt./A. Ground Application: Apply above rates in 25 to 40 gals. of water per acre. Aerial Application: Apply above rates in 1 or more gals. 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. Do not apply after heading.
	Banks grass mites - excluding Trans-Pecos area of Texas), spider mites	1 pt./A. Ground Application: Apply above rate in 25 to 40 gals. of water per acre. Aerial Application: Apply above rate in 1 or more gals. of water per acre.	

FIELD CROPS	PEST CONTROLLED	DIMETHOATE 4EC RATE	INTERVAL (DAYS) BETWEEN LAST APPLICATION/HARVEST
	Grass-hoppers	1 pt./A. Ground Application. Apply above rate in 25 to 40 gals. of water per acre. Aerial Application: Apply above rate in 1 or more gals. of water per acre.	
	Sorghum midge	1/4 to 1/2 pt./A. Aerial Application: Apply above rates in 1 or more gals. of water per acre.	
Soybeans	Mexican bean beetle, spider mites, bean leaf beetle, leafhoppers, *three-cornered alfalfa hopper	1 pt./A. Aerial - Application Apply recommended rate in a minimum of 2 gals. of water per acre.	21 Do not feed or graze within 5 days of last application.
	Grass-hoppers	1 pt./A. Ground Application. Apply above rate in 25 to 40 gals. of water per acre. Aerial Application: Apply above rate in 1 or more gals. of water per acre.	
Wheat	Aphids (greenbugs)	1/2 to 3/4 pt./A.	Do not apply within 14 days of grazing immature plant. Do not harvest grain within 60 days of last application. Do not make more than 2 applications per season.
	Brown wheat mite	1/3 to 1/2 pt./A.	
	Grasshoppers	3/4 pt./A.	

SEED CROPS	PEST CONTROLLED	DIMETHOATE 4EC RATE	INTERVAL (DAYS) BETWEEN LAST APPLICATION/HARVEST
Alfalfa	Aphids, leaf- hoppers, Lygus bugs, grasshoppers, reduction of alfalfa weevil larvae	1/2 to 1 pt./A.	Do not apply to alfalfa in the bloom period. Do not feed or graze live- stock in treated crops, hay, threshings or stubble within 10 days of application.

*Not registered in California.

ATTENTION: Do not use On Seed Onions, Seed Carrots, Or Seed Bermuda Grass.

Consult your State Agricultural Experiment Station or State Agricultural Extension Service for proper timing of application.

PLANT	PEST CONTROLLED	AMOUNT
Citrus (CA, AZ)	Aphids, Thrips,	Foliar Spray: 1 pt. DIMETHOATE 4EC per 100 gals. of water. Repeat applications as necessary. May be applied in the year grapefruit, lemon, orange and tangerine trees begin to bear fruit.

Soil Drench (Trees 1 to 3 years old): 2
qt. DIMETHOATE 4EC 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.

STORAGE AND DISPOSAL

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

STORAGE: Store in a cool, dry, well ventilated area. Avoid high temperatures.

Pesticide Disposal: Pesticide wastes are toxic. 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 (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.

WARRANTY--CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage, and handling of this material not in strict accordance with directions given herewith.

In no case shall Drexel or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by Drexel Chemical Company and is accepted as such by the Buyer.