

ACCEPTED
 FEB 5 1991
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 241-233

CYANAMID AGRICENTER™
CYGON® 400
 systemic insecticide-miticide

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)

EPA Reg. No. 241-233-ZA

EPA Est. No. 5905-AR-01

KEEP OUT OF REACH OF CHILDREN

WARNING/AVISO

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

FIRST AID

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

If on skin: Wash immediately with plenty of soap and water. Get medical attention.

If swallowed: Get medical attention.

NOTE TO PHYSICIANS: This product may cause cholinesterase inhibition. Atropine is antidotal. Pralidoxime chloride (2-PAM: PROTOPAM chloride) may be effective as an adjunct to atropine. Use according to label directions.

See Next Page For Additional Precautionary Statements.

In case of an emergency endangering life or property involving this product, call collect, day or night, Area Code 201-835-3100.

Net Contents: 2.5 Gallons 12/90

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

WARNING

Harmful or fatal if swallowed.
Vapor harmful - concentrated material
Causes eye irritation.
Avoid breathing vapor or spray mist.
Use only with adequate ventilation.
Keep container closed.
Avoid contact with skin and eyes.
Wash thoroughly after handling.
Do not contaminate food or feed products.

Required Clothing and Equipment for Application:

All applicators, including homeowners, 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to wildlife and aquatic invertebrates. Do not apply directly to water or wetlands. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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. Protective information may be obtained from your Agricultural Extension Service.

PHYSICAL/CHEMICAL HAZARDS

Combustible liquid and vapor.

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

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.

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.

STORAGE AND DISPOSAL

DO NOT STORE BELOW 45°F

Prohibitions: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

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 (or equivalent). Then offer for recycling, or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, if allowed by State and local authorities, by burning. If burned, stay out of smoke

GENERAL WORKER PROTECTION

Do not enter or allow entry into treated areas without protective clothing until sprays have dried. Do not enter treated Citrus for 4 days without protective clothing.

Protective clothing means, at least, a hat or other suitable head covering, a long sleeved shirt and long legged trousers or a coverall type garments (all of closely woven fabric covering the body, including the arms and legs), shoes and socks.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

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. Inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure. An example of such information is given under written warnings. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

WARNING

Area treated with Cygon® 400 Spray (insert date). Do not enter without appropriate protective clothing until sprays have dried (insert State Department of Agriculture's re-entry interval, if more restrictive: insert 4 days for Citrus).

In case of accidental exposure to pes icide spray, wash the skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If in eyes, flush with plenty of water. If inhaled, go to an area where the pesticide has not been applied. Get medical attention if needed

DIRECTIONS FOR APPLICATION

This product is intended for use in conventional hydraulic sprayers, ground applicators or aerial sprayers. Do not apply when weather conditions favor drift of spray from treated areas. Repeat applications as necessary unless otherwise specified. Consult your state experiment station or state extension service for proper timing of applications.

CYGON 400 has systemic and contact activity against a broad spectrum of piercing, sucking and chewing insects; however, it may not control certain organophosphate resistant species.

COMPATIBILITY*: CYGON 400 is compatible in spray tank mixes with most insecticides, miticides, and fungicides, provided they are not alkaline in reaction. Field experience indicates that CYGON has been satisfactorily mixed with Sevin¹, Diazinon², Pydrin³, Guthion⁴, CYTHION[®] 'THE PREMIUM GRADE MALATHION', parathion, Kelthane⁵, CYPREX[®] Fruit Fungicide, captan, zineb, and thiram. Because uniform dispersibility and sprayability may be influenced by pesticide combinations used, it is recommended that compatibility be determined before adding pesticides to the spray tank. The addition of X-77 Spreader⁶ at recommended rates will usually eliminate any incompatibility noted.

FOR PROPER MIXING SPRAY TANK SHOULD BE AT LEAST THREE-QUARTERS FILLED WITH WATER BEFORE ADDING CYGON 400. MECHANICAL AGITATION OR RECIRCULATION THROUGH PUMP BYPASS TO TANK IS USUALLY SUFFICIENT FOR MAINTAINING A GOOD DISPERSION.

Spray tank mixtures of CYGON with alkaline insecticides and fungicides should be applied promptly.

ODOR: CYGON formulations may produce a distinctive odor during the spray operation, but under normal conditions this odor does not persist.

Aerial Applications: 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.

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

Ground Applications: Use water for dilution and apply at least 5 gallons of finished spray per acre.

¹ Sevin is a registered trademark of Rhone Poulenc.

² Diazinon is a registered trademark of Ciba-Geigy Corporation.

³ Pydrin is a registered trademark of E.I. duPont de Nemours and Company.

⁴ Guthion is a registered trademark of the parent company of Farbenfabriken Bayer GmbH Leverkusen.

⁵ Kelthane is a trademark of Rohm and Haas Company.

⁶ X-77 Spreader is a registered trademark of Chevron Chemical Company.

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* Tank mixes not registered in California

FIELD CROPS

Crops	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
Alfalfa	Aphids, grasshoppers, leafhoppers, plant bugs including Lygus, reduction of alfalfa weevil larvae	1/2 to 1 pt./acre	10 Do not apply if the crop or weed areas are in bloom. Do not apply 10 days of harvest or pasturing. Make one application per cutting. Effective on cutting to which applied.
Field Corn	Banks grass mites (excluding Trans-Pecos area of Texas), aphids, bean beetle, corn rootworm adult	2/3 to 1 pt./acre	14 Apply as necessary. Make no more than two applications per year. Do not apply within 14 days of last application to corn during the pollen-shed period. Do not apply to corn actively foraging in the treated area.
	Grasshoppers	1 pt./acre	
Cotton (grown in California and Arizona)	Leafhoppers, fleahoppers, plant bugs including Lygus	1/2 to 1 pt./acre	14 Repeat applications should not be made at intervals closer than 14 days. Make two applications per season at the highest and lowest of the season. Do not feed treated forage or grain on treated fields.

FIELD CROPS - cont'd.

Crops	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
Cotton (except Arizona and California)	Aphids, mites, thrips, fleahoppers	1/4 to 1/2 pt./acre	<p>14</p> <p><i>When water is used for dilution:</i> Repeat applications should not be made at intervals closer than 14 days. Do not feed treated forage or graze livestock on treated fields.</p> <p><i>When once refined vegetable oil is used for dilution:</i> Repeat applications should not be made at intervals closer than 40 days. Make only 2 applications per season at the higher rate. Apply at least one quart of finished spray/acre. Do not feed treated forage or graze livestock on treated fields.</p>
	Plant bugs including Lygus	1/2 pt./acre	
Safflower (grown in California and Arizona)	Aphids, leafhoppers, plant bugs including Lygus, thrips	1/2 to 1 pt./acre	<p>14</p> <p>Repeat applications should not be made at intervals closer than 14 days. Make only 2 applications per season at the higher rate.</p>
Sorghum (milo)	Aphids	1/2 to 1 pt./acre	<p>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.</p>
	Banks grass mites (excluding Trans-Pecos area of Texas), spider mites	1 pt./acre	
	Grasshoppers	1 pt./acre	
	Sorghum midge	1/4 to 1/2 pt./acre	

FIELD CROPS - cont'd.

Crops	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
Soybeans	Mexican bean beetle, spider mites, bean leaf beetle, leafhoppers, three-cornered alfalfa hopper*	1 pt./acre	21 Do not feed or graze within 5 days of last application.
	Grasshoppers	1 pt./acre	
Wheat	Aphids	1/2 to 3/4 pt./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.
	Brown wheat mite	1/3 to 1/2 pt./acre	
	Grasshoppers	3/4 pt./acre	

* Not registered in California.

SEED CROPS

Crop	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
Alfalfa	Aphids, leafhoppers, lygys bugs, grasshoppers, reduction of alfalfa weevil larvae	1/2 to 1 pt./acre	Do not apply if the crop or weeds in the treatment areas are in bloom. 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.

VEGETABLE CROPS

Crop	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
Beans (green, lima, snap, dry)	Aphids, grasshoppers, leafhoppers, leaf miners, lygus bugs, mites, bean leaf beetle, Mexican bean beetle	1/2 to 1 pt./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 bloom.
Broccoli Cauliflower	Aphids	1/2 to 1 pt./acre	7
Cabbage	Aphids	1/2 to 1 pt./acre	3
Celery (Florida)	Leaf miners	1 pt./acre	7
Head Lettuce	Aphids, leafhoppers, leaf miners	1/2 pt./acre	7
Leaf Lettuce Spinach Collards Kale Turnip (greens and roots) Mustard Greens Swiss Chard Endive (Escarole)	Aphids, leafhoppers, leaf miners	1/2 pt./acre	14
Melons (except watermelons)	Aphids, leafhoppers, leaf miners, thrips	1 pt./acre	3
Watermelons	Aphids, leaf miners, leafhoppers	1/2 to 1 pt./acre	3

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VEGETABLE CROPS - Cont'd.

Crop	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
Lupine	Aphids, lygus bugs	1/2 to 1 pt./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 crop or weeds in the treatment area are in bloom.
Peas Lentils	Aphids	1/3 pt./acre	Peas or lentils may be harvested on day of application. Do not feed or graze hay within 21 days after last application. Do not make more than one application per season. Do not apply if the crop or weeds in treatment area are in bloom.
Peppers	Aphids, leaf miners, maggots	1/2 to 2/3 pt./acre	Peppers may be harvested on day of application.
Potatoes	Aphids, grasshoppers, leaf miners, leafhoppers	1/2 to 1 pt./acre	Potatoes may be harvested on day of application.
Tomatoes	Aphids, leaf miners, leafhoppers	1/2 to 1 pt./acre	7

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FRUIT AND NUT CROPS

Crop	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
Apples	Apple maggot, Codling moth*	1 pt./100 gals. water	<p style="text-align: center;">28</p> <p>Do not apply when trees or substantial numbers of weeds in the orchard are in bloom. Apply at petal-fall and every 10 to 14 days thereafter until control is achieved.</p> <p>Under heavy infestations, some sting injury may occur.</p> <p>*Midwest and eastern states only. Do not graze livestock in treated orchards.</p>
Apples Pears	Aphids, leafhoppers, mites (except rust mites)	1/2 to 1 pt./100 gals. water	<p style="text-align: center;">28</p> <p>Do not apply when trees or substantial numbers of weeds in the orchard are in bloom. Do not graze livestock in treated orchards.</p>

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FRUIT AND NUT CROPS - cont'd.

Crop	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
Grapefruit Lemons Oranges Tangerines	Aphids	1/2 to 1 pt./100 gals. water	15
		Aerial: 1 to 2 qts./ acre in 5 to 10 gals. water	
	Mites (except rust mites)	1/2 to 1 pt./100 gals. water	15
	Scales (except black or snow)	1 to 1 1/2 pts./100 gals. water	45
		Apply as a thorough coverage spray.	
	Thrips	1/2 to 1 pt./100 gals. water	15
		Aerial: 1 to 2 qts./acre in 5 to 10 gals. water.	
	Whiteflies	1 pt./100 gals. water	15

Do not apply when trees or substantial number of weeds in the grove are in bloom.
 Do not use on citrus seedlings. Make no more than 2 applications to mature fruit.
 Do not enter treated groves within 4 Days of last application without protective clothing.
 Do not graze livestock in treated orchards.

FRUIT AND NUT CROPS - cont'd.

Crop	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
CITRUS: (California, Arizona) Non-bearing and nursery stock	Aphids, thrips	Foliar Spray: 1 pt./100 gals. water	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 without protective clothing. Do not graze livestock in treated groves.
		Soil Drench (trees 1 to 3 years old): 2 qts./acre	Apply 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. Do not graze livestock in treated groves.
NUTS Pecans	Aphids, mites, leafhoppers	2/3 pt./acre	21 Do not graze livestock in treated groves.

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the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

American Cyanamid Company makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY.



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