

PLEASE NOTE

This image contains more than one label approved for this product on this date.

241-233

5/3/78

WARNING! HARMFUL OR FATAL IF SWALLOWED

10/24

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.

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FIRST AID: In case of contact with eyes, flush eyes with plenty of water for at least 15 minutes; get medical attention.

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

Toxic to birds and other wildlife. Keep out of lakes, streams or ponds. 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 product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Ser

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences result because of such factors as weather conditions, presence of other materials, or the use or application of the product contrary to label instructions, all of which are beyond 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 there 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 profit 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.

DIRECTIONS FOR USE CROPS

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 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 of spray from areas treated. Repeat applications as necessary unless otherwise specified. Consult your state extension station or state extension service for proper timing of application.

Table with 4 columns: CROP, PESTS CONTROLLED, RATE, and INTERVAL (DAYS) BETWEEN LAST APPLICATION AND HARVEST. Rows include FRUIT (Apples, Pears, Grapefruit, Lemons, Oranges, Tangerines), NUTS (Pecans), and VEGETABLE CROPS (Beans, Broccoli, Cabbage, etc.).

WHERE CABBAGEWORMS AND CABBAGE LOOPERS ARE A PROBLEM, THE ABOVE RATES OF CYGON 400 ARE COMPATIBLE WITH ENDOSULFAN, MALATHION OR PARATHION. USE IN ACCORDANCE WITH THE MANUFACTURERS' DIRECTIONS FOR CONTROL OF THESE INSECTS.

2074

DO NOT OPEN BELOW



CYGON* 400

SYSTEMIC INSECTICIDE

AVISO

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

TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.

Active ingredient:

Dimethoate (0,0-dimethyl S-(N-methylcarbamoylmethyl) phosphorothioate)

43.5%

Inert ingredients

56.5%

(1 Gallon contains 4.0 pounds of Dimethoate)

EPA Reg. No. 241-233-AA

EPA Est. No. 241-NJ-2

WARNING!

KEEP OUT OF REACH OF CHILDREN

See Side Panel for Precautions and Other Warnings

Net Contents: 5 Gallons

24657-03

D45

CROP	PESTS CONTROLLED	RATE	INTERVAL (DAYS) BETWEEN LAST APPLICATION AND HARVEST
FIELD CROPS Alfalfa	Aphids, leathoppers, lygus bugs, grasshoppers, reduction of alfalfa weevil larvae	1 to 1 pt /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 the cutting to which applied.
Field Corn	Banks Grass Mites (excluding Trans Pecos area of Texas)	1 to 1 pt /acre broadcast by air. Spray over the foliage when mites appear. Apply in ratio of 1 part CYGON 400 in 30 parts of water. Do not use less than 2 1/2 gals. per acre for the 1 pt rate and 3 1/2 gals. per acre for the 1 pt rate.	14 Apply as necessary. Make no more than three applications per year.
Cotton (grown in California and Arizona)	Lygus bugs, leathoppers, black fleahoppers	1 to 1 pt /acre	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.
Cotton	Aphids, mites, thrips, fleahoppers	1 to 1 pt /acre	14 Repeat applications should not be made at intervals closer than 14 days. Do not feed treated forage or graze livestock on treated fields.
	Lygus Bugs	1 pt /acre	
Safflower (grown in California and Arizona)	Aphids, leathoppers, lygus bugs, thrips	1 to 1 pt /acre	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	1 to 1 pt /acre Ground Application: Apply above rates in 25 to 40 gallons of water per acre. Aerial Application: Apply above rates in a ratio of 1 part CYGON 400 in 30 parts of water as follows: RATE OF CYGON 400 MINIMUM GALLONS WATER/ACRE 1 pt 2 1/2 pt 2 1/2 1 pt 3	Do not feed or graze within 28 days of last application. Make 3 aerial applications or 3 ground applications as needed per season.
	Banks grass mites (excluding Trans-Pecos area of Texas)	1 pt /acre Ground Application: Apply above rate in 25 to 40 gallons of water per acre. Aerial Application: Apply above rate in a ratio of 1 part CYGON 400 in 30 parts of water as follows: RATE OF CYGON 400 MINIMUM GALLONS WATER/ACRE 1 pt 3	
	Sorghum midge	Aerial Application: Apply 1/2 to 1 pt in 2 to 10 gallons of water per acre. Apply during the bloom period and repeat as necessary.	
Soybeans	Mexican bean beetle, spider mites	1 pt /acre Aerial Application: Apply recommended rate in a minimum of 10 gallons of water per acre.	21 Do not feed or graze within 5 days of last application.
Tobacco	Aphids	1 to 1 pt /acre	21
Wheat	Aphids (greenbugs)	1 to 1 pt /acre	Do not apply within 14 days of grazing immature plant. Do not harvest grain within 60 days of last application.
	Brown wheat mite	1 to 1 pt /acre	
SEED CROPS Alfalfa	Aphids, leathoppers, lygus bugs, grasshoppers, reduction of alfalfa weevil larvae	1 to 1 pt /acre	Do not apply to alfalfa in the bloom period. Do not feed or graze livestock on treated crops. May be applied to alfalfa within 10 days of application.

WARNING!

DO NOT USE ON SEED ONIONS, SEED CARROTS, OR SEED BERMUDA GRASS. RECOMMENDATION FOR USE ON THESE CROPS HAS BEEN WITHDRAWN FROM THIS LABEL.

FOREST INSECTS

Do not apply to Pine Trees used for Pine Nut or Pinyon Nut Production.

TREE	PESTS CONTROLLED	RATE	DIRECTIONS
Engelmann pine	Pinyon needle scale	2 gals. in 100 gals. water	Apply spray to egg masses at the base of the trees and to all rough bark and crevices that can be reached from the ground. Make this bark application when crawlers start to emerge from the eggs. Use hydraulic or back pack sprayer. Do not spray leaves or needles since phytotoxicity may result.
Douglas fir	Fir cone midge	1 gal. in 100 gals. water	Make thorough coverage application when cones are closed and pendant. Use hydraulic or back pack sprayer.
Pines	Loblolly pine sawfly	1 to 1 pt /acre in 2 gals. water	Apply by aircraft when air is calm and the temperature is below 68° F. Apply when most larvae are in the second and third instars.

CITRUS TREES—NONBEARING AND NURSERY STOCK

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

PLANT	PESTS CONTROLLED	AMOUNT
Citrus (California, Arizona)	Aphids, Thrips	Foliar Spray: 1 pint CYGON 400 per 100 gallons of 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. Soil Drench (Trees 1 to 3 years old): 2 quarts CYGON 400 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.

RINSE/DRAIN PROCEDURE

(1) Drain container into spray tank (after normal emptying) in a vertical position for 30 seconds. (2) Rinse carefully 3 times with 1 gallon of water for each rinse and drain into spray tank after each rinse. (3) Do not reuse container.
DISPOSAL OF PAILS: Preferred disposal—crush and recycle for scrap to a steel melting plant. If preferred disposal cannot be accomplished, container should be crushed and/or buried at an approved dump site according to local and state regulations.

The use of the within-contained material for systemically protecting living plants is covered by Patent No. 3,210,242. The selling price includes a royalty for the right of a purchaser of said material to practice the methods claimed in said patent. A nontransferable license under said patent may be obtained from American Cyanamid Company on current royalty terms whatever the source of material used.

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

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ACCEPTED
MAY 3 1978
UNDER THE FEDERAL PESTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC POISON REGISTERED
ED UNDER NO. 241-233

Made and Printed in U S A

RED GREEN BLACK LJ-0050

NEXT

LABEL

Crop	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
Peppers	Aphids, leaf-miners, thrips	1/4 to 1/2 pt. / acre	Peppers may be harvested on day of application
Peaches	Aphids, leaf-miners, leafhoppers	1/4 to 1 pt. / acre	Peaches may be harvested on day of application
Tomatoes	Aphids, leaf-miners, leafhoppers	1/4 to 1 pt. / acre	7

Where aphid, thrips and cabbage leafers are a problem, the above rates of CYGON 400 are compatible with endosulfan, methidathion or parathion. Use in accordance with the manufacturers' directions for control of these insects.

Crop	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
FIELD CROPS Alfalfa	Aphids, leaf-hoppers, lygus bugs, grasshoppers, reduction of alfalfa weevil larvae	1/4 to 1 pt. / 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 the cutting to which applied.
Field Corn	Stink bug, meadow katydid (including Trans-Pecos area of Texas)	1/4 to 1 pt. / acre broadcast by air. Spray over 1/2 foliage when insects appear. Apply in rate of 1 part CYGON 400 in 30 parts of water. Do not use less than 2 1/2 gals. per acre for the 1/4 pt. rate and 3 1/2 gals. per acre for the 1 pt. rate.	14 Apply as necessary. Make no more than three applications per year.
Cotton (grown in California and Arizona)	Lygus bugs, leaf-hoppers, black fleahoppers	1/4 to 1 pt. / acre	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.
Cotton	Aphids, meadow katydid, leafhoppers, Lygus bugs	1/4 to 1/2 pt. / acre	14 Repeat applications should not be made at intervals closer than 14 days. Do not feed treated forage or graze livestock on treated fields.
Sulfur (grown in California and Arizona)	Aphids, leaf-hoppers, lygus bugs, thrips	1/4 to 1 pt. / acre	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	1/4 to 1 pt. / acre Ground Application: Apply above rates in 25 to 40 gallons of water per acre. Aerial Application: Apply above rates in a rate of 1 part CYGON 400 in 30 parts of water as follows: Rate of Cygon 400 Min. Gal. water/acre 1/4 pt. 2 1/2 pt. 2 1/2 1 pt. 3 1/2	14 Do not feed or graze within 28 days of last application. Make 3 aerial applications or 3 ground applications as needed per season.
	Stink bug, meadow katydid (including Trans-Pecos area of Texas)	1 pt. / acre Ground Application: Apply above rates in 25 to 40 gallons of water per acre. Aerial Application: Apply above rates in a rate of 1 part CYGON 400 in 30 parts of water as follows: Rate of Cygon 400 Min. Gal. water/acre 1 pt. 3 1/2	
	Sorghum midge	Aerial Application: Apply 1/4 to 1/2 pt. in 2 to 10 gallons of water per acre. Apply during the bloom period and repeat as necessary.	
Soybeans	Stink bug, beetle, spider mites	1 pt. / acre Aerial application Apply recommended rate in a minimum of 3 1/2 gals. of water per acre.	21 Do not feed or graze within 5 days of last application.
Tobacco	Aphids	1/4 to 1/2 pt. / acre	21
Wheat	Aphids (greenbugs) Brown wheat mite	1/4 to 1/2 pt. / acre 1/4 to 1/2 pt. / acre	Do not apply within 14 days of grazing immature plant. Do not harvest grain within 30 days of last application.
SEED CROPS Alfalfa	Aphids, leaf-hoppers, lygus bugs, grasshoppers, reduction of alfalfa weevil larvae	1/4 to 1 pt. / 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.

WARNING: DO NOT USE ON BEAN CROPS, BEAN CANNOTS, OR SEED L. ANALYZE GRASS. RECOMMENDATION FOR USE ON THESE CROPS HAS BEEN WITHDRAWN FROM THIS LABEL.

FOREST INSECTS

Do not apply to Pine Trees used for Pine Nut or Piñon Nut Production.

Tree	Pests Controlled	Rate	Directions
Pinon pine	Pinon needle scale	2 gals. in 100 gals. water	Apply spray to egg masses at the base of the trees and to all rough bark and crotches that can be reached from the ground. Make this bark application when crawlers start to emerge from the eggs. Use hydraulic or back-pack sprayer. Do not spray leaves or needles since phytotoxicity may result.
Douglas fir	Fir cone midge	1/2 gal. in 100 gals. water	Make thorough coverage application when cones are closed and pendant. Use hydraulic or back-pack sprayer.
Pines	Loblolly pine sawfly	1/4 to 1/2 pt. / acre in 2 gals. water	Apply by aircraft when air is calm and the temperature is below 68°F. Apply when most larvae are in the second and third instars.

CITRUS TREES — NONBEARING AND NURSERY STOCK

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

Plant	Pests Controlled	Amount
Citrus (California Arizona)	Aphids Thrips	Foliar Spray: 1 pint CYGON 400 per 100 gallons of 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. Soil Breach (trees 1 to 3 years old): 2 quarts CYGON 400 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.

The use of the within-contained material for systemically protecting living plants is covered by Patent No. 3,210,242. The selling price includes a royalty for the right of any purchaser of said material to practice the methods claimed in said patent. A nontransferable license under said patent may be obtained from American Cyanamid Company on current royalty terms whatever the source of material used.

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

AMERICAN CYANAMID COMPANY
AGRICULTURAL DIVISION
PRINCETON, N.J. 08540

* Trademark

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L2381R1

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ACCEPTED

MAY 3 1978

INSECTICIDE
FUNGICIDE AND ROVACIN ACT
FOR ECONOMIC POISON REGISTERED
ED UNDER NO. 241-233

LIQUID AND VAPOR
Do not use on
fruit food or feed products.
Do not use in
open areas where
drift or spray may
occur. Do not use
near heat or open flame.
Do not use in
enclosed areas.
Do not use in
open areas where
drift or spray may
occur. Do not use
near heat or open flame.
Do not use in
enclosed areas.

MATERIAL CAUSES EYE IRRITATION
Avoid contact with
liquid or spray mist.
Wash thoroughly with
water after use.
Wear eye protection
when using.
Do not use in
enclosed areas.

Do not use on
fruit food or feed products.
Do not use in
open areas where
drift or spray may
occur. Do not use
near heat or open flame.
Do not use in
enclosed areas.

This product may cause cholinesterase inhibition.
Trimethoprim (2-PAM; PROTOPAM chloride) may be
used. Use according to label directions.

DISCLAIMER

The statements of this product reflect the opinion of experts based on
data available to us. We do not warrant that the product is
suitable to eliminate all risks inherently associated with use
of this product. The use of this product may be ineffective
under certain conditions, presence of other materials, or
product contrary to label instructions, all of which are
the responsibility of the user. Cyanamid Company. All such risks shall be assumed by
the user.

This warranty only that the material contained herein
described in the description on the label and is reasonably fit for the
purpose intended. This warranty does not extend to consequential
damages or other special or indirect damages.

This breach of this warranty shall be limited to direct
damages. Consequential commercial damages such as loss
of other special or indirect damages.

This product makes no other express or implied warranty,
express or implied warranty of FITNESS or of MERCHANTABILITY.

PROCEDURE:

Use (after normal emptying) in a vertical position for 30
seconds with 2 quarts of water for each rinse and drain into
a separate container. (4) Bury deeply in an isolated
area with at least 18 inches of cover.

Do not use on
fruit food or feed products.
Do not use in
open areas where
drift or spray may
occur. Do not use
near heat or open flame.
Do not use in
enclosed areas.

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**DIRECTIONS FOR USE
CROPS**

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 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
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 application.

Crop	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
FRUIT			
Apples	Apple maggot Codling moth	1 pt. / 100 gals. water	28 Do not apply during the bloom period. Apply at post-bloom and every 10 to 14 days thereafter until control is achieved. Under heavy infestations, some stem injury may occur. Midwest and eastern states only.
Apples Pears	Aphids, leaf- hoppers, mites (except rust mites)	1/4 to 1 pt. / 100 gals. water	28 Do not apply during the bloom period.
	Aphids	Ground Equipment: 1/4 to 1 pt. / 100 gals. water. Apply as an over- head coverage spray. Aircraft Equipment: 1 to 2 qts. / acre in 15 to 20 gals. water.	15
Grapefruit	Mites (except rust mites)	Ground Equipment: 1/4 to 1 pt. / 100 gals. water. Apply as a thor- ough distribution coverage spray.	15
Lemons	Scale (except black or snow)	Ground Equipment: 1 to 1 1/4 pt. / 100 gals. water. Apply as a thor- ough coverage spray.	45
Oranges Tangerines	Thrips	Ground Equipment: 1/4 to 1 pt. / 100 gals. water. Apply as a mist spray. Aircraft Equipment: 1 to 2 qts. / acre in 15 to 20 gals. water.	15
	Whiteflies	Ground Equipment: 1 pt. / 100 gals. water. Apply as a thorough dis- tribution coverage spray.	15
		Do not apply during bloom period. Do not use on citrus seedlings. Make no more than 2 applica- tions to mature fruit. Do not enter treated groves within 4 days of last application.	
NUTS			
Pecans	Aphids, mites, leafhoppers	Ground Equipment: 1/4 pt. / acre.	21 Do not graze livestock in treated groves.
	Aphids	Air Equipment: 1/4 pt. / acre in a minimum of 5 gals of finished spray.	
VEGETABLE CROPS			
Beans (green, lima, snap dry)	Aphids, leaf- hoppers, leaf miners, mites, lygus bugs	1/4 to 1 pt. / acre	Beans may be harvested on day of applica- tion. Do not feed treated vines.
Broccoli Cauliflower	Aphids	1/4 to 1 pt. / acre	7
Cabbage	Aphids	1/4 to 1 pt. / acre	3
Head Lettuce	Aphids, leaf- hoppers, leaf miners	1/4 pt. / acre	7
Catery (Florida)	Leaf miners	Ground Equipment: 1 pt. / acre	7
Leaf Lettuce Spinach Cauliflower Kale Turnip (greens and roots) Mx. and Greens Swiss Chard Endive (Escarole)	Aphids, leaf- hoppers, leaf miners	1/4 pt. / acre	14
Melons (except watermelons)	Aphids, leaf- hoppers, leaf miners, thrips	1 pt. / acre	3
Watermelons	Aphids, leaf miners, thrips	1/4 to 1 pt. / acre	3
Peas	Aphids	1/4 pt. / acre	Peas may be harvested on day of applica- tion. Do not feed or graze hay within 21 days after last application when a sta- tionary venter is used. Do not feed or graze when a mobile venter is used.

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