



**WARNING! COMBUSTIBLE LIQUID AND VAPOR**

Do not contaminate food or feed products.

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

**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.

**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 as an adjunct to atropine. Use according to label directions.

**DO NOT STORE BELOW 45°F**

**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 may result because of such factors as weather conditions, presence of other materials, or the use or application of the product contrary to label instructions, 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 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.

**DISPOSAL OF DRUMS:** Drain drum completely. Add 5 gallons of water, 1 cup of detergent and 2 pounds of lye. Tighten bungs. Rotate drum to wet all surfaces and let stand for at least 15 minutes. Drain completely and rinse several times with water. Tighten bungs. Transport to a professional drum reconditioner having burning equipment for reconditioning.

**ATTENTION**

**DO NOT USE AIR PRESSURE OR APPLY HEAT WITH OPEN FLAME TO REMOVE CONTENTS OF DRUM.**

**AFTER EMPTIED, DRUM MAY RETAIN SOLID, LIQUID, AND/OR VAPOR RESIDUES. CONTINUE TO OBSERVE ALL PRECAUTIONS, IF ANY, ON LABEL.**

**DO NOT CUT, PUNCTURE, TORCH, OR WELD ON OR NEAR THE EMPTIED DRUM.**

**DO NOT USE FOR OTHER PURPOSES.**

**AMERICAN CYANAMID COMPANY  
AGRICULTURAL DIVISION  
PRINCETON, NEW JERSEY 08540**

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 Service.

### 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
<b>FRUIT:</b>			
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.
Apples Pears	Aphids, leafhoppers, mites (except rust mites)	½ to 1 pt./100 gals. water	28 Do not apply during the bloom period.
Grapefruit Lemons Oranges Tangerines	Aphids	Ground Equipment: ½ to 1 pt./100 gals. water. Apply as an outside coverage spray. Aircraft Equipment: 1 to 2 qts./acre in 15 to 20 gals. water.	15
	Mites (except rust mites)	Ground Equipment: ½ to 1 pt./100 gals. water. Apply as a thorough distribution coverage spray.	15
	Scales (except black or snow)	Ground Equipment: 1 to 1½ pts./100 gals. water. Apply as a thorough coverage spray.	45
	Thrips	Ground Equipment: ½ 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 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 enter treated groves within 4 days of last application.			
<b>NUTS:</b>			
Pecans	Aphids, mites, leafhoppers	Ground Equipment: ½ pt./acre	21 Do not graze livestock in treated groves.
	Aphids	Air Equipment: ½ pt./acre in a minimum of 5 gals. of finished spray.	
<b>VEGETABLE CROPS:</b>			
Beans (green, lima, snap, dry)	Aphids, leafhoppers, leaf miners, mites, lygus bugs	½ to 1 pt./acre	Beans may be harvested on day of application. Do not feed treated vines.
Eroccoli Cauliflower	Aphids	½ to 1 pt./acre	7
Cabbage	Aphids	½ to 1 pt./acre	3
Head Lettuce	Aphids, leafhoppers, leaf miners	½ pt./acre	7
Celery (Florida)	Leafminers	Ground Equipment: 1 pt./acre	7
Leaf Lettuce Spinach Collards Kale Turnip (greens and roots) Mustard Greens Swiss Chard Endive (t scarole)	Aphids, leafhoppers, leaf miners	½ pt./acre	14
Tomatoes (except watermelons)	Aphids, leafhoppers, leaf miners, thrips	1 pt./acre	3
Watermelons	Aphids, leaf miners, leafhoppers	½ to 1 pt./acre	3

Crop	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
Peas	Aphids	1/2 pt./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 3/4 pt./acre	Peppers may be harvested on day of application.
Potatoes	Aphids, 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

Where cabbage worms 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.

Soybeans	Mexican bean beetle, spider mites.	1 pt./acre Aerial application: Apply recommended rate in a minimum of 3 1/4 gals. of water per acre.	21 Do not feed or graze within 21 days of last application.
Tobacco	Aphids	1/2 to 3/4 pt./acre	21
Wheat	Aphids (greenbugs) Brown wheat mite	1/2 to 3/4 pt./acre 1/2 to 1/3 pt./acre	Do not apply within grazing immature plants. Harvest grain within 10 days of last application.
SEED CROPS: Alfalfa	Aphids, leafhoppers, lygus bugs, grasshoppers, reduction of alfalfa weevil larvae	1/2 to 1 pt./acre	Do not apply to alfalfa in bloom period. Do not graze livestock in treated hay, threshings or stubble 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 THE LABEL.

**FOREST INSECTS**

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

Crop	Pests Controlled	Rate	Interval (Days) Between Last Application and Harvest
FIELD CROPS: Alfalfa	Aphids, leafhoppers, lygus bugs, grasshoppers, reduction of alfalfa weevil larvae	1/2 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)	1/2 to 1 pt./acre Aerial Application: Spray over the foliage when mites appear. Apply above rates in 1 or more gallons of water per acre.	Do not feed or graze within 14 days of last application. Make no more than three applications as needed per season.
Cotton (grown in California and Arizona)	Lygus bugs, leafhoppers, black fleahoppers	1/2 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	1/4 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.
	Lygus Bugs	1/2 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.
Soybean (grown in California and Arizona)	Aphids, leafhoppers, lygus bugs, thrips	1/2 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	1/2 to 1 pt./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.	Do not feed or graze within 28 days of last application. Make no more than three 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 rates in 1 or more gallons of water per acre.	
	Banks grass mite	1/4 to 1/2 pt./acre Aerial Application: Apply above rates in 1 or more gallons of water per acre.	

Tree	Pests Controlled	Rate	Directions
Pinyon pine	Pinyon needle scale	2 gals. in 100 gals. water	Apply spray to egg masses of the trees and to all rough crevices that can be reached. Make this bark when crawlers start to emerge. Use hydraulic or backpack sprayer. Do not spray leaves since phytotoxicity may result.
Douglas fir	Fir cone midge	1/2 gal. in 100 gals. water	Make thorough coverage of cones when cones are closed. Use hydraulic or backpack sprayer.
Pines	Loblolly pine sawfly	1/4 to 1/2 pt./acre in 2 gals. water	Apply by aircraft when air temperature is below 60°F when most larvae are in the third instars.

**CITRUS TREES - NONBEARING AND NURSERY STOCK**

Consult your state agricultural experimental station or state agricultural extension 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 to year grapefruit, lemon, orange and tangerine before fruit. Do not enter treated groves within 48 hours of application. Soil Drench (Trees 1 to 3 years old): 2 quarts per acre applied in the furrow or basin around tree. Apply when insect injury to new growth is observed. Do not apply to trees that will bear fruit within 1 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 use of said material to practice the methods claimed in said patent. A non-exclusive 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 night, Area Code 201-835-3100.

\*Trademark

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