



# CYTHON 5 EC



### ACTIVE INGREDIENTS:

Malathion	56.4%
Xylene	35.5%
INERT INGREDIENTS:	8.1%
TOTAL	100.0%

### BY WT.

\*O,O-dimethyl dithiophosphate of diethyl mercaptosuccinate

Trademark of American Cyanamid Co.  
Contains 5 lbs. Malathion per gallon

EPA Reg. No. 7001-9-AA  
EPA Est. No. 7001-CA-1

## CAUTION

### KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed. Avoid breathing of spray mist. Avoid contact with skin. Wash thoroughly after handling. Do not contaminate food or feed products. Keep container closed and away from heat, sparks and open flame.

This product is toxic to fish, shrimp, crabs and other wildlife. 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. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

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

Avoid spillage while mixing and filling spray equipment. When container is empty, immediately wash thoroughly with water and detergent and destroy. Discard in a safe place; never re-use container.

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

Maximum permissible rate per acre, expressed as Cython 5 EC, is given in parenthesis ( ) after each crop claim.

### DIRECTIONS FOR DILUTION

**Dilute Application:** Ground Application: Row Crops: Apply specified rate in 20 to 60 gallons of water per acre.

**Concentrate Application:** Row Crops: Apply specified rate in not less than 5 gallons of water per acre. Orchard Application: Apply equivalent rate per acre in 20 to 100 gallons of water. Special concentrate equipment is necessary for these uses.

**Air Application:** Apply specified rate in 5 to 20 gallons of water per acre for field and vegetable crops. Orchard rates should not be applied in less than 10 gallons of water per acre. Use an equivalent per acre rate on orchards.

### DIRECTIONS FOR USE

**Alfalfa, Clover:** Alfalfa Larvae, Aphids, Grasshoppers, Leafhoppers, Lygus Bugs, Spider Mites, Spittlebugs, Spotted Alfalfa Aphid, Clover Leaf Weevils, Vetch Bruchids. Apply 1 1/2 to 2 pints per acre. Armyworms: Apply 2 pts. per acre. Do not apply to crops in bloom because of the danger to the bees. No time limitations.

**Almonds:** Aphids, Red Spiders. Apply 1 to 2 pints per 100 gallons of water. Peach Twig Borer. Apply 1 to 1 1/2 pts. per 100 gallons of water. No time limitations (24 pints).

**Apples:** Red Banded Leafroller, Woolly Apple Aphid, Green Apple Aphid, Rosy Apple Aphid, Forbes Scale, Bud Moth, Spider Mite, Mealy Bug. Apply 1 to 1 1/2 pts. per 100 gallons of water. Do not apply within 3 days of harvest. May cause injury to McIntosh and Cortland varieties if applied within 4 weeks of harvest. (24 pints).

**Apples (dormant and delayed dormant spray):** Woolly Apple Aphids, Green Apple Aphids, Rosy Apple Aphids, Mites, Red Banded Leafrollers. Apply 1 pint plus 1 gallon of Super 94 O4 per 100 gallons of water. Make full coverage sprays only. (24 pts.).

**Apples:** Aphids, Codling Moth, Orange Tortrix, Soft Brown Scale, Terrapin Scale. Apply 1 1/2 to 2 pints per 100 gallons of water. Do not apply within 7 days of harvest. For Codling Moth, apply at petal fall and every 10 to 14 days thereafter until control is achieved. (16 pts.)

**Asparagus:** Asparagus Aphid, Asparagus Beetle, Thrips. Apply 2 pints per acre. Do not apply within 1 day of harvest.

**Avocados:** Greenhouse Thrips, Latania Scales, Omniverous Loopers, Orange Tortrix, Soft Brown Scale. Apply 1 1/2 pints per 100 gallons of water. Do not apply within 7 days of harvest. (14 1/2 pts.)

**Barley:** Aphids, Grasshoppers, Greenbugs. Apply 1 1/2 pints per acre. Armyworms. Apply 2 pints per acre. Cereal Leaf Beetles. Apply 1 to 1 1/2 pints per acre. Do not apply within 7 days of harvest.

**Beans (Lima, Green, Snap, Navy, Red Kidney, Wax, Cowpeas, Black-Eyed Peas, Dry Beans):** (California & Northwestern U.S.): Aphids, Cucumber Beetles. Apply 2 pints per acre. Japanese Beetles, Lygus Bugs. Apply 1 1/2 to 2 pints per acre. Air application for Lygus Bugs. Apply 1 1/2 pints per 10 gallons of water. Mexican Bean Beetles. Apply 1 1/2 pints per acre. Mites. Apply 1 to 1 1/2 pints per acre. Do not apply within 1 day of harvest.

**Beets:** Aphids. Apply 1 1/2 to 2 pints per acre. Do not apply within 7 days of harvest if tops are to be used as feed.

**Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries:** Aphids, Rose Scales. Apply 3 pints per acre. Japanese Beetles, Leafhoppers, Mites, Thrips. Apply 1 1/2 pints per acre. Do not apply within 1 day of harvest.

**Blueberries:** Japanese Beetle. Apply 1 1/2 pints per acre. Do not apply within 1 day of harvest.

**Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Kale, Mustard Greens:** Aphids. Apply 1 1/2 to 2 pints per acre. Cabbage Loopers, Imported Cabbageworms. Apply 2 pints per acre. Do not apply within 3 days of harvest on broccoli, 7 days on brussels sprouts, cabbage, cauliflower, kale, or mustard greens.

**Carrots:** Aphids. Apply 1 1/2 to 2 pints per acre. Do not apply within 7 days of harvest.

**Celery:** Leafhoppers, Aphids, Spider Mites. Apply 1 1/2 pints per acre. Do not apply within 7 days of harvest.

**Cherries:** Black Cherry Aphids, Fruit Tree Leafrollers. Apply 1 1/2 pints per 100 gallons of water. Bud Moths, Cherry Fruit Flies, Japanese Beetles. Apply 1 pint per 100 gallons of water. Do not apply within 3 days of harvest. May injure foliage of some varieties. (12 1/2 pints).

**Citrus (Grapefruit, Kumquats, Lemons, Limes, Oranges, Tangerines, Tangelos):** Black Scale, California Red Scale, Citricola Scale, Purple Scale, Soft Scale, Yellow Scale. Apply 1 1/2 pints per 100 gallons of water. Florida Red and Purple Scales. Apply 2 pints per 100 gallons of water. Thrips. Apply 1 1/2 pints per 200 gallons of water. Do not apply during full bloom. Do not apply within 7 days of harvest. (40 pts.)

**Clover:** Aphids, Grasshoppers, Leafhoppers, Mites. Apply 1 1/2 to 2 pints per acre. Clover Leaf Weevils. Apply 1 1/2 pints per acre.

**Collards:** Aphids. Apply 1 1/2 to 2 pints per acre. Caterpillars. Apply 2 pints per acre. Harlequin Cabbage Bugs. Apply 1 pint per acre. Do not apply within 7 days of harvest.

**Corn (Field, Sweet, Pop):** Aphids, Corn Rootworm Adults, Grasshoppers, Sap Beetles, Thrips. Apply 1 1/2 pints per acre. Armyworms, Cereal Leaf Beetles. Apply 1 1/2 to 2 pints per acre. Do not apply within 5 days of harvest for grain or forage use. **Caution: Injury may occur in the whorl and silk stages.**

**Cotton:** Aphids, Boll Weevils, Cotton Leaf Perforators, Cotton Leafworms, Leafhoppers, Lygus Bugs (plant bugs), Mites, Thrips, White Flies. Apply 1 to 2 quarts per acre. Fall Armyworm, Garden Webworms, Grasshoppers. Apply 1 1/2 to 3 pints per acre. No time limitations.

**Cowpeas:** Grasshoppers. Apply 1 1/2 to 2 pints per acre. No time limitation.

**Cucumbers, Melons, Pumpkins, Squash:** Aphids, Pickleworms, Spider Mites, Thrips. Apply 1 1/2 pints per acre. Cucumber Beetle, Squash Vine Borer. Apply 3 pints per acre. Do not apply within 1 day of harvest on cucumbers, melons, or squash, 3 days on pumpkins. Do not apply unless plants are dry.

**Dandelions:** Aphids. Apply 1 1/2 to 2 pints per acre. Do not apply within 7 days of harvest.

**Eggplant:** Aphids, Spider Mites. Apply 1 pint per acre. Lace Bug. Apply 3 pints per acre. Do not apply within 3 days of harvest.

**Endive (Escarole):** Aphids, Mites. Apply 1 1/2 to 2 pints per acre. Do not apply within 7 days of harvest.

**Figs:** Dried Fruit Beetles, Vinegar Flies. Apply 2 quarts plus 1 to 2 gallons unsulfurized molasses per 100 gallons of water. Do not apply within 3 days. (4 pts.)

**Filberts:** Apple Mealy Bug, Eye-Spotted Bud Moth, Filbert Aphid, Scale (Crawler Stage), Tingids. Apply 1 pint per 100 gallons of water. No time limitation. (4 1/2 pts.)

**Garlic:** Aphids, Thrips. Apply 1 1/2 to 2 pints per acre. Do not apply within 3 days of harvest.

**Grain Sorghum:** Aphids (Greenbugs). Apply 1 1/2 pints per acre. Do not apply within 7 days of harvest.

**Grapes:** European Fruit Lecanium, Leafhoppers, Mealy Bugs, Spider Mites, Terrapin Scale. Apply 1 1/2 pints per acre. Overwintering Grape Phylloxera. Apply 2 to 3 pints per acre. Do not apply within 3 days of harvest. **Note: May injure Ribier, Italia, Cardinal and Almeria varieties if applied after clusters appear.**

**Grass, Grass Hay:** Aphids, Leafhoppers, Grasshoppers. Apply 1 1/2 to 2 pints per acre. Armyworms. Apply 2 pints per acre. No time limitation.

**Hops:** Aphids, Mites. Apply 1 pint per acre. Do not apply within 7 days of harvest.

**Horseradish:** Aphids. Apply 1 1/2 to 2 pints per acre. Do not apply within 7 days of harvest.

**Kohlrabi:** Aphids. Apply 1 to 2 pints per acre. Do not apply within 7 days of harvest.

**Leeks:** Aphids. Apply 1 to 2 pints per acre. Onion Maggot Flies. Apply 2 1/2 pints per acre. Thrips. Apply 3 pints per acre. Do not apply within 3 days of harvest.

**Lentils:** Cowpea and Pea Aphids. Apply 1 1/2 pints per acre. Do not apply within 3 days of harvest.

**Lepidoptera:** Grasshoppers. Apply 1 1/2 to 2 pints per acre. No time limitation.

**Lettuce:** Aphids, Leafhoppers. Apply 2 pints per acre. Cabbage Looper. Apply 3 pints per acre. Do not apply on head lettuce within 7 days of harvest, 14 days on leaf lettuce.

**Lupines:** Grasshoppers. Apply 1 to 2 pints per acre. No time limitation.

**Macadamia Nuts:** Green Stink Bug. Apply 1 1/2 pints per 100 gallons of water. No time limitation. (24 pints)

**Mushrooms:** Mites, Phorid and Sciard Flies. Apply 2 1/2 pints per 130 gallons of water per acre or 2 tablespoons per 3 gallons of water per 100 sq. ft. of bed. Do not apply within 1 day of harvest.

**Nectarines:** Mites. Apply 1 to 2 pints per 100 gallons of water. Plum Curculio. Apply 2 pints per 100 gallons of water. Do not apply within 7 days of harvest. Full coverage spray. For Plum Curculio, apply at petal fall and every 10 to 14 days thereafter until control is achieved. (16 pts.)

**Oats:** Armyworms. Apply 2 pints per acre. Cereal Leaf Beetle. Apply 1 to 1 1/2 pints per acre. English Grain Aphid, Grasshoppers, Greenbugs. Apply 1 1/2 pints per acre. Do not apply within 7 days of harvest.

**Okra:** Aphids. Apply 1 1/2 pints per acre. Japanese Beetle. Apply 2 pints per acre. Do not apply within 1 day of harvest.

**Onions (including Green Onions):** Onion Maggots. Apply 2 1/2 pints per acre. Thrips. Apply 1 1/2 pints per acre. Do not apply within 3 days of harvest.

**Papayas:** Aphids, Mealy Bugs. Apply 1 1/2 to 2 pints per acre. No time limitation.

**Parsley:** Aphids. Apply 1 1/2 to 2 pints per acre. Do not apply within 21 days of harvest.

**Parsnips:** Aphids. Apply 1 1/2 to 2 pints per acre. Do not apply within 7 days of harvest.

**Peaches:** Green Peach Aphid, Black Cherry Aphid, Black Peach Aphid, Rusky Plum Aphid, Japanese Beetle. Apply 1 pint per 100 gallons of water. Cottony Peach Scale, Oriental Fruit Moth, Plum Curculio, Terrapin Scale. Apply 2 pints per 100 gallons of water. Do not apply within 7 days of harvest. Full coverage spray. For Oriental Fruit Moth and Plum Curculio, apply at petal fall and every 10 to 14 days thereafter until control is achieved. (14 1/2 pts.)

**Peanuts:** Leafhoppers, Thrips. Apply 1 1/2 pints per acre. No time limitation.

**Pears:** Codling Moth, Fruit Tree Leafroller, Plum Curculio, Red-Banded Leafroller. Apply 2 pints per 100 gallons of water. Mealy Bugs, Mites, Pear Psylla. Apply 1 to 2 pints per 100 gallons of water. Do not apply within 1 day of harvest. For Codling Moth and Plum Curculio, apply at petal fall and every 10 to 14 days thereafter until control is achieved. (24 pints)

**Peas:** Aphids. Apply 1 1/2 pints per acre. Pea Weevil. Apply 1 1/2 to 2 pints per acre. Do not apply within 7 days of harvest if vines are used as animal feed and 3 days if vines are not used as animal feed.

**Pecans:** Aphids, Mites. Apply 1 to 2 pints per 100 gallons of water. No time limitation. (20 pints)

**Peppers:** Aphids. Apply 1 pint per acre. Maggots. Apply 2 1/2 pints per acre. Do not apply within 3 days of harvest.

**Pineapples:** Mealy Bugs. Apply 1 gallon per acre. Do not apply within 7 days of harvest.

**Plums:** Mealy Plum Aphid, Apply 1 pint per 100 gallons of water. Do not apply within 3 days of harvest. (16 pints)

**Potatoes:** Aphids, Leafhoppers, Mealy Bugs. Apply 1 pint per acre. False Chinch Bugs. Apply 1 1/2 pints per acre. No time limitation.

**Prunes:** Bud Moth, Mealy Plum Aphid. Apply 1 pint per 100 gallons of water. Do not apply within 3 days of harvest. Full coverage spray. (16 pints)

**Quince:** Codling Moth, Oriental Fruit Moth, Plum Curculio. Apply 2 pints per 100 gallons of water. Apply at petal fall and every 10 to 14 days thereafter until control is achieved. Forbes Scale. Apply 1 pint per 100 gallons of water. Mites. Apply 1 to 2 pints per 100 gallons of water. Do not apply within 3 days of harvest. (24 pints)

**Radishes:** Aphids. Apply 1 1/2 to 2 pints per acre. Do not apply within 7 days of harvest.

**Rice (grain form):** Rice Leafminer. Apply 2 1/2 pints per acre. Rice Stink Bug. Apply 1 to 1 1/2 pints per acre. Do not apply within 7 days of harvest.

**Rutabagas:** Aphids. Apply 1 1/2 pints per acre.

**Rust:** Armyworms. Apply 2 pints per acre. English Grain Aphid, Grasshoppers, Greenbugs. Apply 1 1/2 pints per acre. Do not apply within 7 days of harvest.

**Safflower:** Aphids, Grasshoppers, Lygus Bugs, Thrips. Apply 1 1/2 to 2 pints per acre. Do not apply within 3 days of harvest.

**Salsify:** Aphids. Apply 1 1/2 to 2 pints per acre. Do not apply within 7 days of harvest.

**Shallots:** Thrips. Apply 1 1/2 to 2 pints per acre. Do not apply within 3 days of harvest.

**Soybeans:** Green Cloverworm, Mexican Bean Beetle. Apply 3 pints per acre. Do not apply within 7 days of harvest.

**Spinach:** Aphids. Apply 2 pints per acre. Do not apply within 7 days of harvest.

**Strawberries:** Aphids, Spider Mites, Strawberry Root Weevil. Apply 1 1/2 pints per acre. Field Crickets, Lygus Bugs, Spittlebug, Thrips. Apply 1 1/2 to 3 pints per acre. Potato Leafhopper, Strawberry Leafroller, White Flies. Apply 1 1/2 to 2 1/2 pints per acre. Do not apply within 3 days of harvest.

**Sugar Beets:** Aphids. Apply 1 1/2 to 3 pints per acre. Grasshoppers. Apply 3 pints per acre. Do not apply within 7 days of harvest if tops are to be used as food or feed. Do not apply within 3 days of harvest if tops are not to be used as feed or food.

**Sweet Potatoes:** Leafhoppers. Apply 1 1/2 to 2 pints per acre. Morning Glory Leafminers. Apply 2 1/2 to 3 pints per acre. Do not apply within 3 days of harvest.

**Swiss Chard:** Aphids. Apply 1 1/2 to 2 pints per acre. Do not apply within 7 days of harvest.

**Tobacco:** Aphids. Apply 1 1/2 to 2 1/2 pints per acre. Use maximum dosage in plant beds. No time limitation.

**Tomatoes:** Aphids. Apply 1 pint per acre. Armyworms (California). Apply 2 1/2 quarts per acre. Drosophila. Apply 2 1/2 pints per acre. Fruitworms (California). Apply 2 1/2 quarts per acre. Spider Mites. Apply 1 1/2 pints per acre. Do not apply within 5 days of harvest. (California only - do not apply within 3 days of harvest.)

**Turnips:** Aphids, Cabbage Loopers, Imported Cabbageworms. Apply 1 to 2 pints per acre. Do not apply within 3 days of harvest.

**Vetch:** Omniverous Leaf Tier, Pea Aphid, Vetch Bruchid. Apply 1 1/2 to 2 pints per acre. No time limitation.

**Watercress:** Aphids. Apply 1 1/2 to 2 pints per acre. Do not apply within 7 days of harvest.

**Wheat:** Armyworms. Apply 2 pints per acre. Cereal Leaf Beetles, English Grain Aphids. Apply 1 to 1 1/2 pints per acre. Grasshoppers, Greenbugs. Apply 1 1/2 pints per acre. Do not apply within 7 days of harvest.

### STORED GRAINS

Before new grain goes into storage, a spray made by mixing 1 gallon of this concentrate in 25 gallons of water (1 pint in 3 1/2 gallons) should be applied to walls, floors, and ceilings of grain bins, elevators and other storage areas including farm storage. Spray also grain handling equipment and truck beds. Spray all surfaces to the point of run-off, making sure the spray is driven into joints, corners, cracks, and crevices where insects may be concealed.

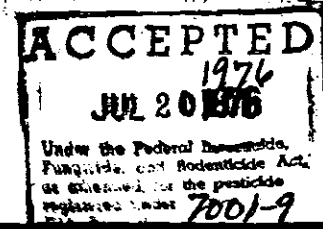
For protection of stored grain (wheat, oats, rice, corn, rye, barley, and grain sorghum) against infestation by many of the common insects which attack grain in storage, such as rice weevil, granary weevil, grain borers, cadelle, saw-toothed grain beetle, confused flour beetle, red flour beetle, and Angoumois grain moth use 1 pint of the concentrate in 2 to 5 gallons of water to each 1,000 bushels. Apply the spray uniformly as the grain is being loaded or turned into final storage. Standard spray application, which can be calibrated to deliver a known volume are suitable for the applications.

For small amounts of grain in farm storage, where special spray equipment may not be available, any low-pressure sprayer (holding one gallon or more) can be used. The spray should be applied to the grain stream as the grain is being elevated into storage. The first step is to determine, by means of spraying out a tank full of water, the rate at which the sprayer is discharging (e.g. fluid ounces per minute). Then regulate the flow of grain to get the proper amount of spray uniformly on the grain. For example, if the sprayer is calibrated to deliver 4 fluid ounces (1/2 pint) per minute, then when using a mixture of 1 pint of concentrate in 5 gallons of water the flow of grain should be 6 1/2 bushels per minute. (25:3:76)

## Occidental Chemical Company

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DISCLAIMER OF WARRANTIES: Seller warrants that the chemical composition of this product conforms to the chemical description given on this label. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESSED, IMPLIED OR STATUTORY, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE. Timing, rate and method of application, weather and crop conditions, mixtures with chemicals not specifically recommended on this label or an accompanying written recommendation, are beyond the control of seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given hereover. Buyer further agrees in the event of damages arising from the use of this product to accept a replacement of the product or a refund of the purchase price of the product, at buyer's option, as full discharge of seller's liability. No one is authorized to make any other warranty, guarantee or directions concerning this product, and no such warranties, guarantees or directions shall be valid or binding upon seller.



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