

## DIRECTIONS FOR USE

CYTHON is used undiluted in specially designed aircraft or ground equipment capable of applying ultra low volumes for control of the insects indicated below. Aerial applications are most effective when made at a boom height of 5 feet and a swath width of 50 feet. Do not make application when winds exceed 5 mph.

Mist blowers and boom sprayers utilizing a controlled air flow to facilitate particle size and spray deposition may be used at a vehicle speed of 4 to 10 mph.

Mist blowers with a pump capable of producing up to 40 psi and blower speeds of 2600 rpm are satisfactory. Use flat fan nozzles, 8001 to 8002, placed 30" into air blast or rotary atomizer into the air blast that produce an efficient spray particle with a mass medium diameter of 40 to 100 microns. Swath widths should not exceed 30 feet, and applications should not be made when winds exceed 5 mph.

Boom sprayers with a filtered rotary air compressor, either PTO or gas engine driven or an air pump capable of producing at least 12 psi are satisfactory. Use air pressure on chemical tanks and an accurate metering value to assure a calibrated flow of the pesticide. Air should be regulated with relief valve and gauge for proper air and liquid mixture. Pneumatic-type spray nozzles, as suggested by equipment manufacturers, should be used for spray particles with mass medium diameter of 30 to 100 microns. Applications should not be made when winds exceed 5 mph.

Repeat applications should be made as necessary unless otherwise specified.

### IMPORTANT

Undiluted spray droplets of Cythion will permanently damage automobile paint. Cars should not be sprayed. If accidental exposure does occur, the car should be washed immediately. Consult your state experiment station or state extension service for proper timing of sprays.

Before using, read the directions for the proper methods and procedures which must be followed to achieve effective insect control and avoid permanent damage to automobile and other paint finishes.

CROP	PESTS CONTROLLED	FLUID OUNCES PER ACRE	INTERVAL BETWEEN LAST APPLICATION AND HARVEST
<u>Alfalfa</u>	Alfalfa caterpillar Western <del>yellow</del> striped <del>armyworm</del>	8-12	Use lower rate when larvae are small. May be applied on day of harvest or grazing. Use higher rate when larvae are large or when alfalfa is thick. 5 days.
	Alfalfa weevil larvae	16	5 days. Apply when day temperatures are expected to exceed 65° F. and when 50-70% of leaves show feeding damage.
	Beet armyworm	8-16	Use lower rate when larvae are small. May be applied on day of harvest or grazing. Use higher rate when larvae are large or when alfalfa is thick. 5 days.
	Grasshoppers	8	May be applied on day of harvest or grazing.
<b>DO NOT APPLY TO ALFALFA IN BLOOM. DO NOT APPLY TO SEED ALFALFA.</b>			
<u>Beans</u> (lima, green, snap, Navy, red kidney, wax, dry, black-eye)	Mexican bean beetle, Leafhoppers, Green Cloverworm, Japanese Beetle, Lygus Bug	8	1 day.
<u>Blueberries</u>	Blueberry Maggot	10	0 day.
<u>Cherries</u>	Cherry Fruit Fly	12-16	1 day. Apply by aircraft only. Use higher rate when foliage is heavy or infestation is severe. Make first application as soon as flies appear.
<u>Cereal Crops</u> , ( <u>barley</u> , <u>corn</u> , <u>oats</u> , <u>wheat</u> ) and <u>grass</u>	Cereal leaf beetle	4-8	Barley, oats, wheat: 7 days of harvest or forage use. Corn: 5 days. Grasses: May be applied on day of harvest or grazing.
<u>Clover</u> , <u>Pasture and Range Grass</u> , <u>Grass</u> , <u>Grass Hay</u> , <u>Non agricultural Land</u> ( <u>Wastelands</u> , <u>roadsides</u> , <u>soil bank lands</u> )	Grasshoppers	8	May be applied on day of harvest or grazing. Do not apply to clover in bloom.

# Hopkins CYTHON<sup>®</sup> "THE PREMIUM GRADE MALATHION"

ACTIVE INGREDIENT:

Malathion\*\* .....

INERT INGREDIENTS: .....

TOTAL ...

\*\*O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate  
(One gallon contains 9.7 pounds of malathion)  
®Trademark of American Cyanamid Company  
EPA Reg. No. 2393-254

## CAUTION

KEEP OUT OF REACH OF CHILDREN

HARMFUL BY SWALLOWING, INHALATION OR SKIN BREATHING spray mist. Avoid contact with skin. Wash. Change contaminated clothing. Do not contaminate food.

This product is highly toxic to bees exposed to direct treatment may be obtained from your Cooperative Agricultural Extension Service.

Highly toxic to fish. Do not contaminate any body of water. Cleaning of equipment or disposal of wastes and containers as specified on this label.

### NOTICE OF WARRANTY

Seller makes no warranty, expressed or implied, concerning other than indicated on the label. Buyer assumes all risk of this material when such use and/or handling is contrary to label directions.

### NET CONTENTS

Repacked by

**HOPKINS AGRICULTURAL CHEMICALS**  
MADISON, WISCONSIN 53701

HO-10-1M-573

# Hopkins

## CYTHON<sup>®</sup>

### "THE PREMIUM GRADE MALATHION"

INGREDIENT:	
Malathion**	95.0%
Other Ingredients:	5.0%
	<b>TOTAL . . . . . 100.0%</b>

is a derivative of diethyl mercaptosuccinate  
(the active ingredient of malathion)  
Hopkins Agricultural Chemical Company

### CAUTION

KEEP OUT OF REACH OF CHILDREN

AVOID SWALLOWING, INHALATION OR SKIN CONTACT. Avoid contact with skin. Wash thoroughly after handling. Do not contaminate food or feed products.

Toxic to bees exposed to direct treatment. Protective information from your Cooperative Agricultural Extension Service.

Do not contaminate any body of water, by direct application, or disposal of wastes and containers. Apply this product only as directed.

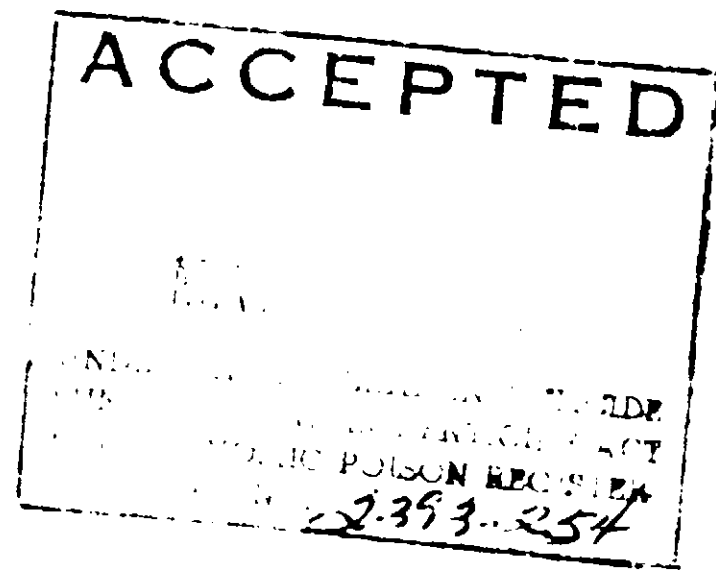
### NOTICE OF WARRANTY

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GALLONS

Repacked by

**HOPKINS AGRICULTURAL CHEMICAL CO.**  
MADISON, WISCONSIN 53701



#### CROP

<u>Corn</u>	Adult Corn Rootworm	4	5 days.
<u>Cotton</u>	Early Season Insects Trips, Fleahoppers Leafhoppers	4-8	0 day.
	Boll Weevil	8-12 16	Early to midseason. 0 day. Late season. 0 day.
	Grasshoppers	8	0 day.
	Lygus Bugs	8-12 16	0 day. Very heavy migrating populations 0 day.
<u>Grain Crops (barley, corn, oats, rye, rice, grain sorghum and wheat)</u>	Grasshoppers	8	7 days. Corn: 5 days of harvest or forage use.
<u>Grain Sorghum</u>	Sorghum Midge	8-12	Apply during the bloom stage 7 days of harvest or forage use.
<u>Safflower</u>	Grasshoppers Lygus Bugs	8	3 days of harvesting seeds.
<u>Soybeans</u>	Mexican Bean Beetle Grasshoppers, Japanese Beetle, Green Cloverworm	8	7 days of harvest or forage use.
<u>Sugar Beets</u>	Grasshoppers, Sugar Beet Root Maggot Adults	8	7 days if tops are to be used as feed.
<u>Nonagricultural Lands</u>	Beet Leafhopper (on wild host plants)	8	0 day.
<u>Beef Cattle-Feed Lots and Holding Pens</u>	Adult flies and Mosquitoes	6-8	0 day.

*See further*

### OTHER AGRICULTURAL USES

Alfalfa, Clover, Pasture and Range Grass, Grass, and Grass Hay, Grain Crops, Beans, Rice, Tomatoes and Non-agricultural Lands (wastelands, soil bank lands): Adult mosquitoes and flies. Apply Cythion at the rate of 2 to 4 fluid ounces for control of adult mosquitoes and at 6 to 8 fluid ounces per acre for control of adult flies and mosquitoes. Repeat applications as necessary. On alfalfa, clover, pasture and range grass, grass, and grass hay, may be applied on day of harvest or grazing. Do not apply to alfalfa and clover in bloom. Do not use on seed alfalfa. On grain crops, make no application within 7 days of harvest or forage use; on corn, within 5 days of harvest or forage; on rice, within 7 days of harvest; on beans and tomatoes, within 1 day of harvest.

### FOREST INSECTS

Apply with aircraft equipped for ultra low volume application. Make application when air is calm and temperature is below 68° F. Do not allow spray to contact ferns, hickory and maples as injury may result. Do not spray on elms under extreme heat, drought and disease conditions.

TREE	PESTS CONTROLLED	FLUID OUNCES PER ACRE	DIRECTIONS
<u>Douglas Fir, True Fir, Spruce</u>	Spruce Budworm	13	Apply when highest percentage of larvae are in the fifth instar.
<u>Hemlock</u>	Hemlock Looper	8	Apply when most larvae are in third and fourth instar.
<u>Pines</u>	European Pine Sawfly	10	Apply when larvae are in the first or second instar or before they reach 1/2 inch in length.
	Saratoga Spittlebug		Apply when 95% of the popula- tion has become adult.
<u>Larch</u>	Larch Casebearer	8	Apply in spring as soon as larvae break hibernation and begin feed- ing on new foliage.

**DISPOSAL OF PAILS:** Drain pail completely. Add 1-2 gallon of water, 1/4 cup of detergent and 1/4 pound of lye. Tighten closure. Rotate pail to wet all surfaces and let stand for at least 15 minutes. Drain completely and rinse several times with water. Bury rinse solution 18 inches deep. Tighten closure. Punch holes in top and bottom of container, crush and bury.