

READ THE LABEL FIRST

CYTHON® 5-E INSECTICIDE

EMULSIFIABLE LIQUID

ACTIVE INGREDIENTS: Malathion (O, O-dimethyl dithiophosphate of diethyl mercaptosuccinate) 56.00%
 Xylene Range Aromatic Solvent 33.50%
INERT INGREDIENTS 10.50%
Contains 5 pounds of premium grade malathion per gallon 100.00%

Ⓔ Trademark of American Cyanamid Company.

**DO NOT USE OR STORE NEAR HEAT OF OPEN FLAME
 PROTECT FROM TEMPERATURES BELOW 0° F.***

* Liquid phases separate at lower temperatures. Warm or store at higher temperatures and mix thoroughly to recombine liquid phases and assure uniformity before use.
 E.P.A. Reg. No. 11682-3

**CAUTION
 KEEP OUT OF REACH OF CHILDREN
 HARMFUL IF SWALLOWED
 COMBUSTIBLE
 AVOID BREATHING OF SPRAY MIST
 AVOID CONTACT WITH SKIN
 WASH THOROUGHLY AFTER HANDLING
 DO NOT CONTAMINATE FOOD OR FEED PRODUCTS
 DO NOT USE, POUR, SPILL, OR STORE NEAR OPEN FLAME**

A PRODUCT OF

SIM-CHEM

MINERALS AND CHEMICALS DIVISION • J. R. SIMPLOT COMPANY
 Post Office Box 810
 Mountain Home, Idaho 83647

NET CONTENTS GALLONS

Rinse equipment and containers and DISPOSE OF WASTES by burying in non-crop lands away from water supplies. Containers should be disposed of by smashing and burying with wastes.

DIRECTIONS FOR USE - STORED GRAINS

Do not use this product for any uses other than those specified on this label.

For the protection of stored grains such as wheat, oats, rice, corn, rye, barley, grain sorghum and field or garden seeds against confused flour beetle, rice weevil, granary weevil, saw-toothed grain beetle, flat grain beetle, red flour beetle, rusty grain beetle, lesser grain borer, Indian meal moth and for control of cereal leaf beetle if they are present apply CYTHON 5-E as follows:

RESIDUAL SPRAY - BEFORE STORING GRAINS For a residual wall, floor and machinery spray in grain elevators, in treating truck beds, box cars and ship's holds before loading grain, apply 1 gallon of CYTHON 5-E per 24 gallons of water making thorough application. Before applying spray, clean elevators, box cars, etc. thoroughly. Remove and burn all sweepings and debris.

GRAINS GOING INTO STORAGE Apply a pint of CYTHON 5-E in 25 gallons of water per 1,000 bushels. Apply as the grain is being loaded or turned into final storage.

AFTER GRAINS ARE STORED To protect stored grains from attack by confused flour beetle, red flour beetle, rice weevil, granary weevil, maize weevil, saw-toothed grain beetle, flat grain beetle, rusty grain beetle, lesser grain borer, and to aid in protection from Indian meal moth, apply CYTHON 5-E to the surface of clean or uninfested grain at the rate of 1/2 pint in 1 to 2 gallons of water per 1,000 square feet of grain surface area. Apply the spray evenly over the surface of the grain. Apply immediately after grain is loaded into storage and repeat if necessary.

FIELD AND GARDEN SEEDS Field and garden seeds can be protected against the above grain pests with a dosage of 1/2 pint of CYTHON 5-E in 1 to 2 1/2 gallons of water per 500 bushels of seed. CYTHON 5-E may be used under the requirements of the Khapra beetle quarantine, where water or diesel oil emulsions are indicated as prescribed by the current quarantine instructions.

Pour specified amount of this product into nearly filled spray tank. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. If mixture does not mix readily but tends to separate as an oily layer, do not use as injury to plants may result. Do not combine with wettable powders unless previous use of the mixture has proven physically compatible and safe to plants. Always thoroughly emulsify this product with at least half to total water before adding wettable powder.

OBSERVE THE FOLLOWING USE PRECAUTIONS

Observe use limitations given on the label for specific crops.

In order that pesticidal residues on food and forage crops will not exceed tolerance established by the Environmental Protection Agency, use only at recommended rates and intervals, and do not apply closer to harvest than specified. Do not apply or allow to drift to areas occupied by unprotected human or beneficial animals or onto adjoining food, fiber or pasture crops. The grower is responsible for residues on his crops as well as for damages caused by drift from his property to that of others.

This product is toxic to fish, birds and other wildlife. Birds feeding on treated areas may be killed. 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.

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Consult local agricultural authorities for additional information as the timing.

RECOMMENDATIONS

Unless otherwise stated for specific pests, apply at the first sign of infestation and repeat at 7-10 day intervals as needed to maintain control. Dosages are given in terms of pints of Cython 5-E in sufficient water to cover one acre. Thorough, full coverage applications should be made.

ORNAMENTALS

Dosages given are for use as 100 gallon dilute spray

Aphids, European Pine Shoot Moth, Four-lined Leaf Bug, Japanese Beetle Adult, Mealybugs, Millipedes, Potato Leafhopper, Rose Leafhopper, Scaly Scale, Spider Mites, Springtails, Sowbugs, Tarnished Plant Bug, Thrips, Whitefly, Eucynimus Scale, Oyster Shell Scale 1 1/2 pts.

Azalea Scale, Bagworms, Birch Leafminer, Boxwood Leafminer, Flathead Scale, Florida Red Scale, Juniper Scale, Magnolia Scale, Oak Kettle, Pine Leaf Scale, Tort Caterpillar 2 pts.

Black Scale Crawlers, Monterey Pine Scale 2 1/2 pts.
 Pine Needle Scale, Wax Scale 4 pts.

For Oyster Shell, Flathead, Juniper, Oak Kermes and Pine Needle Scales apply when scale crawlers have settled on foliage.

CAUTION: Injury may occur on ferns, hickory, viburnum, lantana, crasula and cannerly-jumper following the use of this product. Slight injury has also been reported on Briston, pteris and maidenhair ferns, petunias, small-leaf sorbes, white pine and maples. Under extreme heat, drought and disease conditions this product may cause slight damage to elms.

LIVESTOCK

Do not treat animals under 1 month of age. When applying sprays avoid contamination of feed, food containers and watering troughs. Spray animals thoroughly.

Animal	Pest	Amount CYTHON 5-E	Remarks
Beef Cattle (also pigs lactating dairy animals)	Lice	6 1/2 oz. per 5 gals. water or 1 gal. per 100 gals. water	Repeat application in 10 days and thereafter as needed
	Ticks	6 1/2 to 13 oz. per 5 gals. water or 1 to 2 gals. per 100 gals. water	Repeat applications at 2 week intervals as needed
Horses	Hornflies	6 1/2 to 10 oz. per 5 gals. water or 1 to 1 1/2 gals. per 100 gals. water	Repeat applications at 2 week intervals as needed

Do not apply to lactating dairy animals or non-lactating dairy animals within 2 weeks of freshening.

Animal	Pest	Amount CYTHON 5-E	Remarks
Hogs	Lice	6 1/2 oz. per 5 gals. water or 1 gal. per 100 gals. water	Apply a complete coverage spray animals pens at litter. Repeat in 10 days and thereafter as needed. Spray hogs should be out of sun and for a few hours after treatment.
	Sarcoptic Mange		
Sheep and Goats	Lice	6 1/2 oz. per 5 gals. water or 1 gal. per 100 gals. water	Repeat application after 2 or 3 weeks if needed. Do not apply to milk.
	Keds		

OUTDOORS

MOSQUITO CONTROL: Mosquito larvae in standing water in intermittently flooded areas, stagnant water, temporary rain pool. Apply CYTHON 5-E at the rate of 13 fluid ounces (1/3 pound malathion per acre). Mix in sufficient water or oil when applied air or ground equipment.

MOSQUITOES, FLIES AND SMALL FLYING INSECTS: CYTHON 5-E to 5% area spray. As a 2% area of bath spray, dilute CYTHON 5-E 1 part to 28 parts water. When using kerosene solvents, such as fuel oil or diesel oil, as carriers dilute CYTHON 5-E in 28 parts of a mixture consisting of 4 parts kerosene-type solvent and 1 part aromatic hydrocarbon type solvent. For 5%, dilute 1 to 11 using similar solvents. Repeat application necessary. Avoid applying oil based formulations to valuable ornamental plants as injury may occur. CYTHON may be toxic to certain species of fish particularly in shallow water.

NOTE: CYTHON 5-E may cause spotting on automobile (a finish). Cars should not be sprayed. If accidental exposure does occur the car should be washed immediately.

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ALFALFA CLOVER - Alfalfa weevil larvae, aphids, clover leaf weevil, grasshoppers, lygus bugs, pea aphid, leafhoppers, spider mites, pittlebug, vetch bruchid: 1 to 2 pints. Use higher rate for army worm control. May be applied on day of harvest or grazing. Do not apply to alfalfa and clover in bloom.

BEANS - Aphids, cucumber beetle: 2 pints. Japanese beetle: 1 1/2 to 2 pints. Spider mites: 1 to 1 1/2 pints. Mexican bean beetle: 1 1/2 pints. Lygus bugs (on dry beans in California and Northwest): 1 1/2 pints to 2 pints. Do not apply within 1 day of harvest.

BEETS (Table and Garden) - Aphids: 1 1/2 to 2 pints. Do not apply within 7 days if tops are to be used as food or feed.

BEETS, SUGAR - Aphids: 2 pints. Grasshoppers: 3 pints. Do not apply within 7 days if tops are to be used as food or feed.

BERRIES (blackberry, boysenberry, dewberry, loganberry, raspberry) - Aphids, rose scale: 3 pints. Mites, leafhoppers, Japanese beetle: 1 1/2 pints. Do not apply within 1 day of harvest.

BLUEBERRIES - Japanese beetle: 1 1/2 pints. Do not apply within 1 day of harvest.

CARROTS - Aphids: 1 1/2 to 2 pints. Leafhoppers: 2 pints. Do not apply within 7 days of harvest.

CARSNIPS, HORSERADISH, RADISHES, SALSIFY - Aphids: 1 1/2 to 2 pints. Do not apply within 7 days of harvest.

CELERY (Anise* and fresh leaves and stalks) - Aphids, spider mites: 1 1/2 pints. Do not apply within 7 days of harvest. *Do not use on crops grown for seed and oil.

COLE CROPS (broccoli, Brussels sprouts, cabbage, kale, mustard greens, turnips) - Aphids, flea beetles (mustard greens only): 1 1/2 to 2 pints. Cabbage loopers, imported cabbageworm: 1 to 2 pints. (For best results, use with other recommended insecticides.) Do not apply within 7 days of harvest on Brussels sprouts, cabbage, kale and mustard greens; 3 days on broccoli and turnips.

CORN - Aphids, corn rootworm adults (for protection of silks), ear beetles, thrips, young grasshoppers: 1 1/2 pints. Do not apply within 5 days of harvest or forage use. Caution: Injury may occur in the whorl and silk stages with emulsifiable liquids.

CUCUMBER, PUMPKIN, SQUASH - Cucumber beetle, squash vine borer: 3 pints. Aphids, leafhoppers, pickleworm, spider mites: 1 1/2 pints. Do not apply within 3 days of harvest on pumpkins. Do not apply on cucumber and squash unless plants are dry or within 1 day of harvest.

EGGPLANT - Aphids, lace bug, spider mites: 2 to 3 pints. Use higher rate for lace bug control. Do not apply within 3 days of harvest.

GRASS AND CEREAL CROPS (Barley, corn, oats, wheat, barn grass, canary grass, fescue, orchard grass, red top, timothy and yellow flint) - Great leaf beetle: 1 1/2 pints in 30-50 gals of water. Do

not apply within 7 days of harvest or forage use on barley, oats and wheat. 5 days on corn and grasses. May be applied on day of harvest on grazing grasses.

GRASS, GRASS HAY, PASTURE AND RANGELANDS - Aphids, grasshoppers, leafhoppers: 1 1/2 to 2 pints or 1 1/2 pints in 1 gallon diesel fuel oil. Armyworms: 2 pints or 1 1/2 pints in 1 gallon diesel fuel oil. May be applied on day of cutting or grazing.

HOPS - Aphids, mites: 2 pints. Do not apply within 10 days of harvest.

LETTUCE - Aphids, leafhoppers: 2 pints. Cabbage looper: 3 pints. (Use in combination with recommended insecticides.) Do not apply on leaf lettuce within 14 days of harvest; 7 days for head lettuce.

ENDIVE (escarole) - Aphids, mites: 1 1/2 to 2 pints. Do not apply within 7 days of harvest.

MINT - Aphids, adult flea beetles, cabbage loopers (use in combination with recommended insecticides), leafhoppers, spider mites: 1 1/2 pints. Do not apply within 7 days of cutting.

ONIONS - Onion maggot: 2 1/2 pints. Thrips: 1 1/2 pints. For onion maggot control apply when flies first appear and repeat every 4 days. Do not apply within 3 days of harvest on green onions.

PEAS - Aphids, pea weevil: 2 pints. Do not apply within 3 days of harvest; 7 days if forage is to be fed to livestock.

PEPPERS - Aphids, pepper maggot: 2 1/2 pints. Do not apply within 3 days of harvest.

POTATOES - Aphids, leafhoppers, mealybugs: 1 pint. False chinch bug: 1 1/2 pints. May be applied on day of harvest.

SAFFLOWER - Aphids, lygus bugs, grasshoppers: 1 1/2 to 2 pints. Do not apply within 3 days of harvest.

SMALL GRAINS (barley, oats, rye, wheat) - Armyworms, English grain aphids, grasshoppers, greenbugs: 1 1/2 to 2 pints. Do not apply within 7 days of harvest.

SPINACH - Aphids: 2 1/2 pints. Do not apply within 7 days of harvest.

STRAWBERRIES - Aphids, spider mites, strawberry root weevil: 1 1/2 pints. Potato leafhopper, strawberry leafroller, whiteflies: 1 1/2 to 2 1/2 pints. Field crickets, lygus bugs, spittle bugs, thrips: 1 1/2 to 3 pints. (For strawberry root weevil control, make applications to the soil surface before planting and work in to the top 6 to 8 inches.) Do not apply within 3 days of harvest.

SWISS CHARD - Aphids: 1 1/2 to 2 pints. Do not apply within 7 days of harvest.

TOMATOES - Aphids: 1 pint. Drosophila: 2 1/2 pints. Spider mites: 1 1/2 pints. Do not apply within 1 day of harvest. Armyworms and fruitworms (California): 2 1/2 quarts. Do not apply within 3 days of harvest.