

96.07.03

DIMETHOATE 480

SYSTEMIC  
INSECTICIDE

emulsifiable  
concentrate

contains dimethoate

- A Systemic Insecticide for the control of
- Insects on listed flowering plants, ornamental shrubs & trees
  - Insects on listed vegetables, fruits and field crops

A Contact and Residual Insecticide  
for the Control of houseflies

COMMERCIAL

GUARANTEE:

dimethoate .....480 g/L

REGISTRATION NO. 14767  
PEST CONTROL PRODUCTS ACT

READ THE LABEL AND THIS PAMPHLET BEFORE USING

WARNING

POISON

WILBUR-ELLIS COMPANY OF CANADA LIMITED  
555 Southgate Drive, Unit 101  
Guelph, Ontario N2H 6J3

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

May be harmful or fatal if swallowed, inhaled or absorbed through the skin.

Concentrate material may cause eye irritation.

Avoid breathing vapours or spray mist.

Use only in adequately ventilated areas.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after using and before eating, drinking or smoking.

Do not apply directly to animals. Remove livestock and poultry from

buildings when spraying.

Do not contaminate food or feeds.

Do not contaminate feed troughs, drinking fountains or litter.

Do not use in milk processing rooms or in dwellings.

Do not mix with whitewash or apply within 2 weeks of whitewashing.

#### FIRST AID:

CALL A PHYSICIAN AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If on skin, wash thoroughly with soap and water.

If in eyes, flush eyes with plenty of water for 15 minutes; seek medical attention.

If swallowed, drink one to two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention or call poison control centre.

#### TOXICOLOGICAL INFORMATION:

Symptoms of poisoning include nausea, vomiting, pinpoint pupils, excessive salivation, muscle twitching, convulsions and coma. This product, upon repeated or prolonged use, may cause cholinesterase inhibition.

#### ATROPINE IS ANTIDOTAL:

Give 1 to 2 mg of atropine sulphate intramuscularly or intravenously immediately and every 15 to 30 minutes until full atropinization has been attained.

Pralidoxime chloride (2-PAM: PROTOPAM chloride) may be effective as an adjunct to atropine. Use according to label directions.

#### DECONTAMINATION:

If accidental spillage of CYGON 480 should occur, scrub contaminated area immediately with a strong laundry soap solution or use household lye. Detergents are not satisfactory for this purpose. Repeated scrubbing are necessary on plain wood surfaces.

#### DISPOSAL:

1. Rinse the emptied container thoroughly and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product and the cleanup of spills, contact the Provincial Regulatory Agency or the Manufacturer.

#### WILDLIFE STATEMENT:

- Highly toxic to birds, bees and other wildlife.
- Do not treat when bees are foraging.
- Do not apply to crops such as alfalfa when in full bloom.

#### STORAGE PRECAUTIONS:

- Do not use, pour, spill or store near heat or open flame.
- Keep out of direct sunlight.
- Ship and store between 4'C and 30'C.

#### HOUSEFLY CONTROL

DIMETHOATE 480 controls houseflies for up to 6 weeks. Use a spray solution containing 200-250 mL DIMETHOATE 480 per 10 litres of water. Repeat applications should be made when necessary. Good sanitation is an essential part of any effective fly control program. DO NOT use in homes.

In dairy barns, hogpens, calf barns, poultry houses and other farm buildings:

Apply a residual spray to the ceilings, walls, stanchions. Thoroughly wet all fly resting areas to the point of runoff. Five (5) to ten (10) litres of spray will cover 100 m<sup>2</sup> of surface. For localized fly control apply spot sprays with a knapsack or similar type sprayer to doorways, around windows, counters and other areas frequented by flies.

General outdoor use:

To control houseflies around homes, recreation areas, garbage cans, animal quarters, food processing plants, warehouses, loading docks and refuse areas, spray exposed surfaces such as wells, fences refuse containers and garbage. Exposure of sprayed areas to weather, particularly sunshine, reduces the duration of residual effects. Repeat applications as necessary.

#### VEGETABLE, FIELD AND FRUIT CROPS, FLOWERING PLANTS, ORNAMENTAL SHRUBS AND TREES

1. DIMETHOATE 480 is a true systemic insecticide. A systemic insecticide is absorbed into the system of the plant upon application and, as with all systemic materials, may in specific plants cause reactions which are neither predictable nor common to all members of the species.
2. FOR PROPER TIMING of treatments for the control of specific pests on ornamental plants, consult local agricultural authorities. In general, apply adequate spray for good coverage when pests appear or when damage is first observed, unless otherwise indicated. Do not overdose or overspray.

3. EXPERIENCE has shown when dealing with species that may be injured by foliar application, soil drenches are safer on those plants for which they are recommended.
4. DO NOT USE on ornamental plants not listed. While DIMETHOATE 480 may not always cause injury to species not listed, injury to individual plants or in local areas.
5. When IN DOUBT about plant safety it is advisable to spray a single branch or dip several leaves in the spray solution. A waiting period of three or four days will usually indicate if plant damage will result.
6. DO NOT SPRAY the following species unless you have tested single branches or leaves to ascertain safety:
 

American Elm	Mop-head Elm
Norway Maple	Mock Orange
Sunburst Locust	Moraine Honeylocust
7. There has been no report of damage by DIMETHOATE 480 to any of the common evergreen species grown in Canada provided recommended rates have been followed.
8. Forest Pest Control-birds and other wildlife in treated areas may be harmed.
9. Do not apply foliar sprays during the heat of the day or when temperatures are exceedingly high.

VEGETABLE CROPS	INSECTS CONTROLLED	RATE OF DIMETHOATE 480 PER	
		10 litres water	Hectare
Asparagus	Asparagus aphid	35 mL	2.3L
REMARKS: Ground Application: For mature asparagus, sprays should begin July 1 after crop has been harvested, and continue at three (3) to four (4) week intervals until defoliation in October. For immature asparagus, begin application mid-May. Apply by boom or field sprayer using 675 L of water per hectare.			
Beans	Aphids, bean beetles, leafhoppers, leafminers, lygus bugs, mites, tarnished plant bugs	7-10 mL	0.7-1 L

REMARKS: Do not feed or allow livestock to graze treated forage. Do not apply within 7 days of harvest.			
Cole Crops: Broccoli, Brussels sprouts, Cabbage, Cauliflower	Aphids	7-10 mL	0.7-1 L
REMARKS: Required interval before harvest: Brussels sprouts - 21 days Broccoli, Cabbage, Cauliflower - 4 days			
Leafy Vegetables: Beet greens, Kale, Lettuce, Spinach, Swiss Chard, Turnip Greens	Aphids, leafhoppers	7 mL	700 mL
REMARKS: Required interval before harvest: Beet greens - 12 days Kale, Lettuce, Spinach - 7 days Swiss chard, Turnip greens - 7 days			
Peas	Aphids	2.5-4 mL	275-425 mL
REMARKS: May be applied by air or ground equipment. Do not feed or allow livestock to graze treated vines within 21 days after application. Do not apply within 3 days of harvest.			
Peppers	Aphids, maggots	7-10 mL	0.7-1L
REMARKS: Do not apply within 3 days of harvest.			
Potatoes, Tomatoes (field)	Aphids, leafhoppers	5-10 mL	0.55-1.1 L
REMARKS: Consult local agricultural authorities for proper timing. Do not apply within 7 days of harvest.			
Mushroom houses	Sciarid flies, Phorid flies.	120 mL	
REMARKS: Spray all inside walls and paint the bed boards on the outside with the mixture. Apply after filling the beds with manure, but before spawning and casing. Do not spray on the manure or compost.			

+NOTE: For each of the vegetable crops, apply DIMETHOATE 480 in sufficient water for good coverage. Repeat applications as necessary, except that label directions concerning required interval before must be observed.

FIELD CROPS	INSECTS CONTROLLED	RATE OF DIMETHOATE 480 INSECTICIDE/HA
Alfalfa	Aphids, leafhoppers, reduction of alfalfa weevil larvae.	425 mL
Alfalfa (seed production)	Blotch leafminers. Grasshoppers - nymphs Grasshoppers - adults Lygus bugs, plant bugs	550 mL 550 mL 850-900 mL 1.1 L
REMARKS ++		
<p>Do not graze or harvest for forage within 2 days after application.</p> <p>Use a water volume of at least 200 L/ha with ground equipment. Do not graze or harvest for forage within 2 days after treatment.</p> <p>Do not graze or harvest for forage within 2 days after treatment.</p> <p>Do not graze or harvest for forage within 28 days after treatment.</p> <p>Do not graze or harvest for forage within 28 days after treatment.</p>		
Canola (rape)	Aphids, leafhoppers, grasshoppers	850-900 mL
Repeat application only when necessary and do not treat within 21 days of harvest.		
Forage crops grain	Grasshoppers - low infestations  - nymphs - adults	425 mL-550 mL  550 mL 850-1 L
<p>Use higher rate on grain.</p> <p>Do not graze or harvest for forage within 2 days after treatment.</p> <p>Do not graze or harvest for forage within 2 days after treatment.</p> <p>Do not graze or harvest for forage within 28 days after treatment.</p>		
Sweet clover	Sweet clover weevil	0.850-1.1L
Do not graze or harvest for forage within 28 days after treatment.		
Pastures Wastelands	Grasshoppers - nymphs - adults	550 mL 850-1L
<p>Do not graze or harvest for forage within 2 days after treatment.</p> <p>Use high rate for adult grasshopper control on wasteland.</p> <p>Do not graze or harvest for forage within 28 days after treatment.</p>		

Wheat	Orange blossom Wheat midge	1L  If midge population persists at 3 days apply a second treatment. Use a water volume of at least 100 L/ha by air. Higher volume will provide more thorough coverage.
<p>If adult midges are present (1 midge/4-5 wheat heads), sprays should be applied when 25% of the wheat head has fully emerged from the boot but before flowering has begun. At this stage, wheat first becomes susceptible to attack by the egg-laying females. Applications should be made in the late afternoon or evening when temperatures exceed 15°C and the wind speed is less than 10 kPh. High volume sprays will improve penetration of the crop. Proper timing of application is essential for control.</p> <p>DO NOT harvest within 21 days of application.</p> <p>DO NOT apply to areas where bees are actively foraging or near apiaries as product is toxic to bees.</p> <p>DO NOT graze or use for forage within 7 days of application. Consult provincial authorities for further information concerning rates and time of application.</p>		
Wheat, Oats Barley	Thrips	1L
<p>Ground application: Use sufficient water to obtain good coverage, (usually 110-275 litres)/ha. Same limitations for harvesting and grazing as above.</p>		

++NOTE: Use sufficient water for good coverage when utilizing ground or aerial application equipment. This formulation is not suited to application in oil.

RESTRICTIONS:

Remove cattle prior to spraying.

This product is toxic to bees.

When spraying honey-producing crops (alfalfa, red clover, sweet clover and alsike) spray at least 5 days before bloom appears and do not introduce hives until full bloom. Hives should be removed from vicinity

before making spray applications. If spraying must be done during the blooming period, restrict application to the period after dark or very early morning in order to reduce mortality to bees that may be visiting the blooms.

		RATE OF DIMETHOATE 480 PER		
FRUIT CROPS	INSECTS CONTROLLED	10 LITRES WATER	1000 LITRES WATER	HECTARE
Apples	Codling moth		500-600 mL	
REMARKS				
For codling moth control make two (2) applications when moth appears (usually July and August). Required interval before harvest - 14 days.				
Apples Pears	Aphids, mites apple maggots pear psyllas. Tarnished plant bugs	10-12.5 mL  6.25 mL	1-1.25 L  625 mL	
<p>Apply when insects first appear, using sufficient water for good coverage. Repeat as necessary. For apple maggot, spray when adult flies first appear (usually July 10-15) and repeat after 10 to 14 days.</p> <p>Apples: Apply at pink and first cover, using about 4000 L/ha.</p> <p>Pears: Apply at pre-bloom.</p> <p>Required interval before harvest -14 days.</p>				
Blueberry (Lowbush)	Blueberry maggot			580-830 mL
<p>Apply pesticide in sufficient water for good coverage, one week after first berries ripen. Use no more than 1000 L spray/ha. Date of first spray should usually occur between July 5 and 15 depending on area and season.</p> <p>Apply second spray in 10-12 days if needed.</p> <p>Required interval between last spray and harvest - 15 days.</p>				
Peaches (non-bearing)	Tarnished plant bugs, Aphids, mites	5 mL 10-15 mL	500 mL 1.15 L	1.7 L
<p>Spray when insects first appear and repeat as necessary using sufficient water for good coverage. Some defoliation may occur under cold wet soil and/or slow drying conditions during and following application. Least injury has occurred when sprays were applied in the morning while temperatures are moderate and drying conditions are fairly good.</p>				



Strawberries (bearing)	Tarnished plant bugs	12.5 mL	1.25 L	2.75 L
Apply first spray when blooms appear and the second application 10 to 12 days later if needed. Do not spray within 7 days of harvest.				
Strawberries (non-bearing)	Aphids, mites	10 mL	1 L	2.25 L
Spray when insects first appear and repeat as necessary using sufficient water for good coverage. Do not spray within 7 days of harvest.				
Sweet Cherries	Black and Western Cherry fruit fly maggots	5 mL	500 mL	2.25 L
Apply no later than 6 days after the first adult fly has been trapped. Apply once only. Do not spray within 21 days of harvest.				
Sour Cherries	Black and Western cherry fruit fly maggots.	5 mL	500 mL	2.25 L
Apply no later than 6 days after the first adult fly has been trapped and repeat in 14 days if required. Do not spray within 21 days of harvest.				

The uses below are foliar sprays unless otherwise indicated: (outdoor plants only).

FLOWERING PLANTS	INSECTS CONTROLLED	RATE OF DIMETHOATE 480 PER	
		10 LITRES OF WATER	1000 LITRES OF WATER
Azaleas	Lace bugs, leaf miners, mites, white flies	10 mL	1 L
Camelias	Aphids, mites camelia scales	10 mL	1 L

		<p>Foliar spray: Apply 2 sprays 6 weeks apart during the first year. In subsequent years make an application soon after first growth begins in the spring.</p> <p>Soil Drench: Apply DIMETHOATE 480 as a soil drench around the base of plants in early spring at the rate of 60 mL in 10 litres of water per plant up to 2 metres tall. Increase this rate proportionately for larger plants.</p>	
Carnations	Aphids, thrips, mites	10 mL	1 L
		Soil drench: Apply as a soil drench at the rate of 125 mL per 100 m <sup>2</sup> bed or bench (12.5 L/ha) in sufficient water for even distribution. Water in thoroughly after application.	
Day lilies Euonymus Gardenias Gerberas Gladioli Irises	Aphids, thrips	20 mL	2 L
	Aphids, scales	20 mL	2 L
	White flies	10 mL	1 L
	Thrips	10 mL	1 L
	Aphids, thrips	10 mL	1 L
	Aphids, iris borer, thrips	20 mL	2 L
		For borer control, spray when new leaves are 12-15 cm tall.	
Poinsettias (outdoor plants)	Aphids, white flies, mites, mealy bugs	10 mL	1L
Roses	Aphids, leafhoppers, mites, thrips	10 mL	1 L
		Apply thoroughly every 4 weeks during growing season.	

ORNAMENTAL SHRUBS TREES (outdoor plants only)	INSECTS CONTROLLED	RATE OF DIMETHOATE 480 PER	
		10 LITRES OF WATER	1000 LITRES OF WATER
Arborvitae	Aphids, bagworms, mites	20 mL	2 L
Birch	Aphids, leaf miners	5 mL	500 mL
		<p>Foliar spray: For leaf miners apply when leaves are expanded (about mid-May; repeat the last week in June.</p> <p>Soil drench: For full-season control DIMETHOATE 480 may be used as a soil drench once in early May when the leaves start to open. Apply DIMETHOATE 480 undiluted at a rate of 11 mL per cm of stem basal diameter (cumulative total of all stems) evenly into small shallow holes made with a sharp instrument at the dripline of the tree or clump. Close the holes with soil. Drench thoroughly with water immediately so as to saturate the root system. One soil drench treatment in May should give control of birch leaf miners for the complete season. DO NOT make more than one soil drench treatment per season. Soil drenches may not be effective on newly transplanted birches where the root system is not well established. Some hybrid varieties e.g. cutleaf and silver birch may be damaged by excessive amount of DIMETHOATE. Therefore, apply no more than the recommended dosage.</p>	
Boxwood	Mites, leaf miners, mealy bugs	10 mL	1 L
		For leaf miners apply in spring when leaf miner flies first appear or in early summer for control of larvae in the infested leaves.	
Cedar	Mites, leaf miners	20 mL	2 L
		For leaf miners apply in early May or late August.	

Douglas Fir (seed tree)	Cone insects (cone or gall midges, 100 L water cone moths, seed chalcids, scale midges)	5 L per 100 L water Apply with mist blower	2.5 L per Apply as a wetting spray
		Application should be made when cones are at or near the pendant stage. Complete coverage of the cones and foliage in the cone-bearing area of the tree is important for satisfactory results.	
Holly (English, American)	Mites, soft scales leaf needle miners	10 mL	1 L
		For leaf miners apply in spring when leaf miner flies first appear or in early summer for control of larvae in the infested leaves.	
Juniper	Aphids, bagworms, midges, mites	20 mL	2 L
Lilac (Syringa spp)	Leaf miners	15 mL	1.25 L
		Apply two sprays 6 weeks apart. Applications should be made as soon as any signs of the leaf miner appear or first application should be started in early June.	
Oak	Golden Oak Scales	20 mL	2 L
Pine (Mugho, Red, Scots)	Red and blackheaded pine sawfly larvae Aphids, bagworms European pine shoot moths, Nantucket pine tip moths. Zimmerman pine moths	10 mL	1 L
		20 mL	2 L
		For pine shoot moths apply early in the spring and again in mid-June, thoroughly wetting branch tips.	
Spruce (woodland use)	Seed and cone insects	104-208 mL	10.4-20.8 L

		Thoroughly spray cone-bearing portions of tree to point of runoff using ground hydraulic spray equipment when strobili are closed and turning but before they reach the horizontal position. Contact your local forest pest control officer for more information on timing and spray application as well as spruce species that may be treated.	
Sitka Spruce	Sitka spruce weevil	250 mL	25 L
		Thoroughly spray the terminal growth to the point of runoff at the time of egg laying (usually during the first half of May).	
Taxus	Mites, Fletcher scale, mealy bugs	20 mL	2 L
		For Fletcher scale, spray at the end of June and again 10 days later when crawlers are moving.	
<p>NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.</p> <p>NATURE OF RESTRICTION: This product is to be used only in the manner authorized: consult local pesticide regulatory authorities about use permits which may be required.</p>			
<p>RESTRICTED USE AERIAL APPLICATION</p>			
TREE	INSECTS CONTROLLED	RATE OF DIMETHOATE 480 PER	
		10 LITRES OF WATER	1000 LITRES OF WATER
Hemlock	Mites, scales spruce needle miners	10 mL	1 L
		For aircraft applications use 1.5 L DIMETHOATE 480 in 5-20 litres water per hectare. applied as a uniform spray of fine droplets. Application should be made as soon as the larvae hatch.	

(( LABEL ))

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SYSTEMIC  
INSECTICIDE

EMULSIFIABLE  
CONCENTRATE

CONTAINS DIMETHOATE

COMMERCIAL

GUARANTEE:

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PEST CONTROL PRODUCTS ACT

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POISON

NET CONTENTS  
10 LITRES

WILBUR-ELLIS COMPANY OF CANADA LIMITED  
555 Southgate Drive, Unit 101  
Guelph, Ontario N2H 6J3

DIMETHOATE 480 can be used to control:

Aphids, mites and tarnished plant bugs on apples, pears, peaches and strawberries.

Apple maggots on apples.

Pear psylla on pears.

Fruit fly maggots on cherries.

Aphids and leafhoppers on beans, leafy vegetables, potatoes and tomatoes.

Aphids on cole crops, peas and peppers.

Bean beetles, leaf miners, mites and tarnished plant bugs on beans.

Aphids and grasshoppers on certain field crops.

Various insects on outdoor flowering plants, ornamentals shrubs and trees.

Housefly control.

FOR RATES AND TIMES OF APPLICATION, READ THE ATTACHED PAMPHLET.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. May be harmful or fatal if swallowed, inhaled or absorbed through the skin. Concentrate material may cause eye irritation. Avoid breathing vapours or spray mist. Use only in adequately ventilated areas. Avoid contact with skin, eyes or clothing. Wash thoroughly after using and before eating, drinking or smoking. Do not apply directly to animals. Remove livestock and poultry from buildings when spraying. Do not contaminate food or feeds. Do not contaminate feed troughs, drinking fountains or litter. Do not use in milk processing rooms or in dwellings. Do not use, pour, spill or store near heat or open flame. Do not mix with whitewash or apply within 2 weeks of whitewashing. Keep out of direct sunlight.

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NOTICE TO BUYER: Seller's guarantee shall be limited to the terms set out on the label and subject thereto. The buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

SHIP AND STORE BETWEEN 4 AND 30'C.

DIMETHOATE 480  
11/93

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