

85.12.31

GREEN CROSS(R)

CYGON\* 480E

COMMERCIAL

EMULSIFIABLE CONCENTRATE

SYSTEMIC INSECTICIDE

Net Contents: 4 L

GUARANTEE: Dimethoate .....480 g/L

READ THE LABEL AND PAMPHLET BEFORE USING

REGISTRATION NO. 10,104 PEST CONTROL PRODUCTS ACT

GREEN CROSS

Division of CIBA-GEIGY CANADA LTD.,  
6860 Century Avenue,  
Mississauga, Ontario  
L5N 2W5

\* T.M. CYANAMID

READ ATTACHED PAMPHLET BEFORE USING

GENERAL USES

CYGON 480E CAN BE USED FOR:

FRUIT - control of aphids, mites, apple maggots, tarnished plant bug, pear psylla on apples, pears, non-bearing peaches and strawberries and fruit fly maggots on cherries.

VEGETABLES - control of aphids, leafhoppers, bean beetles, leafminers, mites and tarnished plant bugs on beans, leafy vegetables, cole crops, peas, peppers, potatoes and tomatoes.

FIELD CROPS - control of aphids, mites and grasshoppers on cereals and alfalfa.

OTHER - control of various insects on outdoor flowering plants, ornamental shrubs and trees.

DETAILED USES: See attached pamphlet for detailed rates, time of application and days to harvest.

CAUTION: KEEP OUT OF REACH OF CHILDREN. May be harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing vapour or spray mist. Use only with adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after handling and before eating and smoking. Avoid contamination of feed and foodstuffs. Keep product away from heat, sparks and open flame. Do not expose to direct sunlight. Remove animals from treatment area during application.

FIRST AID:

External - If on skin, wash immediately. If in eyes, flush eyes with water for 15 minutes; then seek medical attention.

Internal - If swallowed, induce vomiting immediately; then seek medical attention. Never give anything by mouth to an unconscious person.

TOXICOLOGICAL INFORMATION:

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

ANTIDOTE 2 to 4 mg. of atropine sulphate administered intramuscularly or intravenously immediately and every hour until pupils dilate.

2-PAM used according to label directions may be an effective adjunct to atropine.

DISPOSAL PROCEDURES:

Drain the container completely into the spray tank and then rinse the container several times with water pouring contents in the spray tank. Crush empty container and bury at least 45 cm deep; away from any water supplies.

NOTE: This product is toxic to birds and wildlife. To reduce injury to bees restrict time of application to after dark or in the early morning when the bees are in their hives and are less active. Do not apply to such crops as

alfalfa when in full bloom.

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.

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 5 DEG AND 30 DEG C.

((PAMPHLET))

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GENERAL USES AND METHODS OF APPLICATION:

480E is generally effective in controlling aphids, grasshoppers, house flies, leafhoppers, leaf miners, mites, scales, tarnished plant bugs and thrips.

BEFORE USING ANY PESTICIDE STOP; READ THE LABEL

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

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

Avoid breathing vapour or spray mist.

Use only with adequate ventilation.

Avoid contact with skin and eyes.

Wash thoroughly after handling and before eating or smoking.

Avoid contamination of food or feed products.

Keep away from heat, sparks and open flame.

Do not expose to direct sunlight.

Remove animals from treatment area during application.

FIRST AID:

If on skin, wash immediately.

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

If swallowed, induce vomiting immediately; then seek medical attention.

Never give anything by mouth to an unconscious person.

TOXICOLOGY:

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

ATROPINE IS ANTIDOTAL:

Give 2 to 4 mg atropine sulphate intramuscularly or intravenously immediately and every hour as required until pupils dilate.

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

HOUSE FLY CONTROL: CYGON 480 E controls house flies for up to 6 weeks. Use a spray solution containing 20 - 25 mL of CYGON 480 E per litre of water. Repeat applications should be made when necessary. Good sanitation is an essential part of any effective fly control program.

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

Apply a residual spray to the ceilings, walls, stanchions, etc. Thoroughly wet all fly resting areas to the point of runoff. 5 - 10 L 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 house flies around homes, recreation areas, garbage cans, animal quarters, food processing plants, warehouses, loading docks and refuse areas, spray exposed surfaces such as walls, fences, refuse containers and garbage. Exposure of sprayed areas to weather, particularly sunshine, reduces the duration of residual effects. Repeat applications as necessary.

NOTE:

Remove livestock and poultry from buildings when spraying. Do not use in milk processing or milk storage rooms. Do not contaminate feed, foodstuffs, feed troughs or drinking fountains. Do not mix with whitewash or apply within 2 weeks of whitewashing. Do not use in homes.

FLOWERING PLANTS, ORNAMENTAL SHRUBS AND TREES:

GENERAL COMMENTS:

1. CYGON 480E 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. When using foliar sprays, do not apply during heat of the day or when temperatures are excessively high.
4. DO NOT USE on ornamental plants not listed. While CYGON 480E may not always cause injury to species not listed, injury may occur 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 | Morraine Locust |

or other ornamentals not listed in this pamphlet.

7. There has been no report of damage by CYGON 480E to any of the common evergreen species grown in Canada provided recommended rates have been followed.
8. SPILLAGE - If accidental spillage of CYGON 480E 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 may be necessary on plain wood surfaces. Avoid spillage on all types of floor tile or linoleum.

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

| VEGETABLE CROPS | INSECTS CONTROLLED |
|-----------------|--------------------|
|                 |                    |

|  |  |
|--|--|
| Beans  | Aphids, bean beetles, leafhoppers, leaf miners, lygus bugs, mites, tarnished plant bugs  |
|  |  |
| Cole Crops:<br>Broccoli<br>Brussels sprouts<br>Cabbage<br>Cauliflower                        | Aphids   |
|  |  |
| Leafy Vegetables:<br>Beet greens, kale<br>Lettuce, spinach,<br>Swiss chard,<br>Turnip greens | Aphids, leafhoppers  |
|  |  |
| Peas   | Aphids   |
|  |  |
| Peppers  | Aphids, maggots  |
|  |  |
| Potatoes<br>Tomatoes   | Aphids, leafhoppers  |
|  |  |
| Mushroom houses  | Sciarid flies, phorid flies  |
|  |  |
| FIELD CROPS<br>Alfalfa<br>Forage crops<br>Pastures<br>Waste areas                            | Aphids, young grasshoppers, leafhoppers, lygus bugs, plant bugs, reduction of alfalfa weevil larvae<br>Adult or winged grasshoppers<br>Sweet clover weevil |

RATE OF CYGON 480E PER

| 10 L WATER  | HECTARE      | REMARKS   |
|-------------|--------------|---|
| 7-10 mL     | 700 mL-1 L   | Do not feed or allow livestock to graze treated forage. Do not apply within 7 days of harvest.  |
| 7-10 mL     | 700 mL-1 L   | Required interval before harvest:<br>Brussels sprouts - 21 days<br>Broccoli, cabbage,<br>cauliflower - 4 days   |
| 7 mL        | 700 mL       | Required interval before harvest:<br>Beet greens - 12 days<br>Kale, lettuce, spinach,<br>Swiss chard, turnip greens - 7 days  |
| 2.5- 3.5 mL | 275- 425 mL  | 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.             |
| 7-10 mL     | 700 mL-1 L   | Do not apply within 3 days of harvest.  |
| 5-10 mL     | 550 mL-1.1 L | Consult local agricultural authorities for proper timing.<br>Do not apply within 7 days of harvest.   |
| 120 mL      |              | 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. |



|                                    |  |
|------------------------------------|--|
| 425 mL<br>850 mL<br>850 mL - 1.1 L | Use sufficient water for good coverage, using ground or aerial application equipment. Repeat only when necessary. Remove cattle before spraying. Do not apply during bloom. Do not graze or harvest for forage within the following times after application:<br><br>RATE OF CYGON<br>480E PER HA:           REQUIRED INTERVAL:<br>425 mL                   48 hours<br>850 mL                   7 days<br>850 mL-1.1           28 days |
|------------------------------------|--|

| FRUIT CROPS   | INSECTS CONTROLLED                            | RATE OF CYGON 480 E PER 10 L OF WATER |
|---|---|---------------------------------------|
| Apples<br>Pears   | Aphids, mites, apple maggot<br>pear psylla    | 10-12.5 mL                            |
|   | Tarnished plant bugs                          | 7 mL                                  |
| DO NOT SPRAY APPLES OR PEARS WITHIN FOURTEEN (14) DAYS OF HARVEST |   |                                       |
| Peaches<br>(non-bearing)  | Tarnished plant bugs                          | 5 mL                                  |
|   | Aphids, mites                                 | 10-15 mL                              |
| Strawberries  | Tarnished plant bugs,<br>aphids, mites        | 12.5 mL                               |
| Strawberries<br>(non-bearing)                                     | Aphids, mites                                 | 10 mL                                 |
| Cherries<br>(sweet and sour)                                      | Black and western cherry<br>fruit fly maggots | 5 mL                                  |

CAUTION: Forest Pest Control - birds and other wildlife in treated areas may be harmed.

This product is toxic to bees. Restrict application to the period after dark when bees are inside the hives, or in early morning before the bees are foraging in the fields. Do not apply to such crops as alfalfa when in full bloom.

| RATE OF CYGON 480E PER |         |   |
|------------------------|---------|---|
| 1000 L WATER           | HECTARE | REMARKS   |
| 1-1.25 L               |         | 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 to 15) and repeat after 10 to 14 days. |
| 625 mL                 |         | On apple, apply at pink and first cover, using about 4500 L per ha. On pears, apply at pre-bloom.   |
| 500 mL                 | 1.75 L  | Apply first spray at pink stage and repeat at shuck fall.   |
| 1-1.5 L                |         | Spray when insects first appear and repeat at monthly intervals or as necessary using sufficient water for good coverage.   |
| 1.25 L                 | 3 L     | Apply first spray. hen first blooms appear and the second application 10 to 12 days later.  |
| 1 L                    | 2.2 L   | Spray when insects first appear and repeat at monthly intervals or as necessary using sufficient water for good coverage.   |

|        |       |  |
|--------|-------|--|
| 625 mL | 4.5 L | Apply no later than 5 days after the first adult fly has been trapped and repeat in 16 days if required. Do not spray within 15 days of harvest. |
|--------|-------|--|

The uses listed below are foliar sprays unless otherwise indicated. (Outdoor plants only)

| FLOWERING PLANTS | INSECTS CONTROLLED                         | 10 L WATER   | 1000 L WATER |
|------------------|--|--|--------------|
| Azaleas          | Lace bugs, leaf miners, mites, white flies | 10 mL  | 1L           |
| Camellias        | Aphids, mites, camellia scale              | 10 mL  | 1L           |
|                  |  | <p>Foliar spray: Apply 2 sprays 6 weeks apart the first year followed by annual applications soon after first growth begins in the spring.</p> <p>Soil drench: Apply CYGON 480E as a soil drench around the base of the plants in early spring at the rate of 30 mL per 4.5 L of water per plant up to 2 m tall. Increase this rate proportionately for larger plants.</p> |              |
| Carnations       | Aphids, thrips, mites                      | 10 mL  | 1L           |
|                  |  | <p>Soil drench: Apply as a soil drench at the rate of 125 mL per 100 m<sup>2</sup> of bed or bench (14L/ha) in sufficient water for even distribution. Water in thoroughly after application.</p>  |              |
|                  |  |  |              |

|   |  |  |        |
|---|--|--|--------|
| Day Lilies  | Aphids, Thrips                         | 20 mL  | 2L     |
|   |  |  |        |
| Euonymous   | Aphids, scale                          | 20 mL  | 2L     |
|   |  |  |        |
| Gardenias   | White flies                            | 10 mL  | 1L     |
|   |  |  |        |
| Gerberas  | Thrips                                 | 10 mL  | 1L     |
|   |  |  |        |
| Gladiolus   | Aphids, thrips                         | 10 mL  | 1L     |
|   |  |  |        |
| Iris  | Aphids, iris borer, thrips             | 20 mL  | 2L     |
|   |  | For borer control spray when new leaves are 12.5-15 cm tall. |        |
|   |  |  |        |
| Poinsettias<br>(Outdoor plants)                           | Aphids, white flies, mites, mealy bugs | 10 mL  | 1L     |
|   |  |  |        |
| Roses   | Aphids, leafhoppers, mites, thrips     | 10 mL  | 1L     |
|   |  | Apply thoroughly every 4 weeks during growing season.        |        |
|   |  |  |        |
| (OUTDOOR DOOR PLANTS ONLY)<br>ORNAMENTAL SHRUBS AND TREES |  |  |        |
| Arborvitae  | Aphids, bagworms, mites                | 20 mL  | 2L     |
|   |  |  |        |
| 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 CYGON 480E may be used as a soil drench once in early May when the leaves start to open.</p> <p>Apply CYGON 480E undiluted at a rate of 55 mL per 5 cm of stem basal diameter (cumulative total of all stems) evenly into small holes made with a sharp instrument within the dripline of the tree or clump. Close the holes with earth. Drench with water immediately so as to saturate the root system.</p> <p>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.</p> |    |
|         |                                |  |    |
| Boxwood | Mites, leaf miners, mealy bugs | 10 mL  | 1L |
|         |                                | <p>For leaf miners apply in spring when leaf miner flies first appear or in early summer for control of larvae in the infested leaves.</p>   |    |
|         |                                |  |    |
| Cedar   | Mites, leaf miners             | 20 mL  | 2L |

|                              |  |   |       |
|------------------------------|--|---|-------|
|                              |  | For leaf miners apply in early May or late August.  |       |
| Douglas Fir<br>Seed Tree     | Cone insects (cone or gall midge, cone moths, seed chalcid, scale midge) | 5 L in 100 L water. Apply with mist blower. 2.5L in 100 L water. 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 and American) | Mites, soft scale, leaf miners   | 10 mL   | 1L    |
|                              |  | For leaf miners apply in spring when leaf miner flies first appear or in early summer for the control of larvae in the infested leaves.   |       |
|                              |  |   |       |
| Hemlock                      | Mites, scale, spruce needle miner  | 10 mL   | 1L    |
|                              |  | Applications should be made as soon as the larvae hatch.  |       |
|                              |  |   |       |
| Juniper                      | Aphids, bagworms, midges, mites  | 20 mL   | 2L    |
| Lilac (Syringa spp.)         | Leaf miners  | 12.5 mL   | 1.25L |
|                              |  | 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 scale   | 20 mL   | 2L    |

|                          |  |  |    |
|--------------------------|--|--|----|
|                          |  |  |    |
| Pine (mugho, red, Scots) | Red and black-headed pine sawfly larvae  | 10 mL  | 1L |
|                          | Aphids, bagworms, European pine shoot moth, Nantucket pine tip moth, Zimmerman pine moth | 20 ml  | 2L |
|                          |  | For pine shoot moths apply early in the spring and again in mid-June, thoroughly wetting branch tips.  |    |
|                          |  |  |    |
| Sitka Spruce             | Sitka-spruce weevil  | 2.5 L in 100 L water. Thoroughly spray the terminal growth to the point of run-off at the time of egg laying (usually during the first half of May). |    |
| Taxus                    | Mites, Fletcher scale, mealy bugs  | 20 mL  | 2L |
|                          |  | For Fletcher scale spray at the end of June and again 10 days later when the crawlers are moving.  |    |
|                          |  |  |    |

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