

(Container Label)

Group	<b>1B</b>	Insecticide
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**CYGON<sup>®</sup> 480 EC**  
**SYSTEMIC INSECTICIDE**

**NET CONTENTS: 10L**

**AGRICULTURAL**

**READ THE LABEL AND THE BOOKLET BEFORE USING**

emulsifiable concentrate contains dimethoate

A Systemic insecticide for the control of insects on listed flowering plants,  
ornamental shrubs, trees, vegetable, fruit and  
field crops.

A Contact insecticide for the control of houseflies

GUARANTEE: Dimethoate 480 g/L

REGISTRATION NO. 9807 PEST CONTROL PRODUCTS ACT

**DANGER**  **POISON**

Interprovincial Cooperative Limited,  
P.O. Box 1050, Saskatoon, Saskatchewan S7K 3M9  
1-204-233-3461

RC 544-0108

**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 and smoking. Avoid contamination of food or feed products. Keep away from heat, sparks and open flame. Do not expose to direct sunlight. Ship and store between 4°C and 30°C. Remove animals from treatment area during application. Highly toxic to birds, bees and other wildlife. Do not treat crops when bees are foraging. This product is not to be used around homes or other residential areas such as parks, school grounds, and playing fields. It is not for use by homeowners or other uncertified users.

**ENVIRONMENTAL PRECAUTIONS:** This product contains petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

**FIRST AID: If on skin or clothing,** take off contaminated clothing. Rinse skin IMMEDIATELY with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice. **If in eyes,** hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. **If swallowed,** call a poison control centre or doctor IMMEDIATELY for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person. Never give anything by mouth to an unconscious person. **If inhaled,** move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**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 2 to 4 mg of 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.

**RINSING AND DISPOSAL:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the

provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**SPILLAGE:** If accidental spillage of CYGON 480 EC SYSTEMIC INSECTICIDE should occur, scrub contaminated area immediately with a strong laundry soap solution or use household lye - detergents are not satisfactory for this purpose. Repeated scrubblings may be necessary on plain wood surfaces. Avoid spillage on all types of floor tile or linoleum.

**NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

® Trademark of Cheminova

(Detachable booklet)

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# CYGON<sup>®</sup> 480 EC SYSTEMIC INSECTICIDE

**GENERAL USES:** CYGON 480 EC SYSTEMIC INSECTICIDE is generally effective in controlling aphids, grasshoppers, houseflies, leafhoppers, leafminers, mites, scales, tarnished plant bugs and thrips.

**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 and smoking. Avoid contamination of food or feed products. Keep away from heat, sparks and open flame. Do not expose to direct sunlight. Ship and store between 4°C and 30°C. Remove animals from treatment area during application. Highly toxic to birds, bees and other wildlife. Do not treat crops when bees are foraging. This product is not to be used around homes or other residential areas such as parks, school grounds, and playing fields. It is not for use by homeowners or other uncertified users.

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**MIXING AND APPLICATION INSTRUCTIONS:**

1. Fill tank half full with water. Start agitation.
2. Add required CYGON 480 EC SYSTEMIC INSECTICIDE.
3. Complete filling of spray tank with water.
4. Apply a minimum of 200 Litres of spray per hectare for ground application and sufficient volume for uniform application. Higher volumes may be required on larger plants, but avoid run-off, for ground boom application. For vegetable crops and ornamentals, apply sufficient water for uniform, thorough coverage. Consult provincial extension services for detailed spray application volumes as required.
5. Do not exceed 275 kpa, pressure for ground boom application.

**PRECAUTIONS FOR AERIAL APPLICATION:** (See specific crop sections.)

Use special care in aerial application where damage from drift can be greater. Apply only by fixed-wing or rotary aircraft equipment, which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application, rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

## Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application, as outlined in the *National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides*.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed. Do not contaminate water by cleaning of equipment or disposal of wastes.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat. Do not use human flaggers.

A method must be used to detect air movement, lapse conditions, or temperature inversions (stable air) such as the use of balloons or a continuous smoke column at or near the spray site or a smoke generator on the spray equipment. If the smoke develops into layers or indicates a potential for hazardous spray drift, do not spray. Do not spray in winds exceeding 8 km per hour.

## Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot has communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

## Product Specific Precautions

Read and understand the entire label and booklet before opening this product. If you have questions, call the manufacturer at 204-233-3461 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

**Volume:** A minimum volume of 30 L per hectare of spray solution should be used. Use boom pressure of 235 kpa or less. Avoid placing nozzles where spray will enter wing tip vortices.

**Buffer zones:** Appropriate buffer zones should be established between treatment areas and aquatic systems and treatment areas and significant wildlife habitat.

## HOUSE FLY CONTROL

CYGON 480 EC SYSTEMIC INSECTICIDE controls houseflies for up to 6 weeks. Use a spray solution containing 25 mL of CYGON 480 EC SYSTEMIC INSECTICIDE 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 run off. 5-10 litres of spray will cover 100 m<sup>2</sup> of surface. For localized spray 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 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. Do not apply by air.

**Caution:** 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.

## ORNAMENTAL, CROP AND FORESTRY USES

### GENERAL USE PRECAUTIONS:

1. CYGON 480 EC SYSTEMIC INSECTICIDE 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 over-spray.
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 480 EC SYSTEMIC INSECTICIDE 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 480 EC SYSTEMIC INSECTICIDE to any of the common evergreen species grown in Canada provided recommended rates have been followed.
8. This product is toxic to bees. Restrict application to the period after dark when bees are inside the hives, or in the early morning before the bees are foraging in the fields. Do not apply to such crops as alfalfa when in full bloom.
9. 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.
10. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web-site at [www.croplife.ca](http://www.croplife.ca).

**RESISTANCE MANAGEMENT RECOMMENDATIONS:** For resistance management, please note that CYGON 480 EC SYSTEMIC INSECTICIDE contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to CYGON 480 EC SYSTEMIC INSECTICIDE and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

**To delay insecticide resistance:** Where possible, rotate the use of CYGON 480 EC SYSTEMIC INSECTICIDE or other Group 1B insecticides with different groups that control the same pests in a field. Use tank mixtures with insecticides from a different group when such use is permitted. Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices. Monitor treated pest populations for resistance development. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area. For further information or to report suspected resistance contact Interprovincial Cooperatives Ltd. at (204) 233-3461.

FIELD AND VEGETABLE CROPS: For each of the crops below, apply CYGON 480 EC SYSTEMIC INSECTICIDE in sufficient water for good coverage. Repeat applications as necessary or as otherwise directed, except that label directions concerning required interval before harvest must be observed.

		RATE OF CYGON 480 EC SYSTEMIC INSECTICIDE PER			
VEGETABLE CROPS	INSECTS CONTROLLED	10 L WATER	HECTARE	PREHARVEST INTERVALS (DAYS)	MAXIMUM # OF APPLICATIONS PER SEASON
Asparagus	Asparagus aphid	35 mL	2.3 L	NA	6
	<b>Remarks:</b> Ground application ONLY. Ground Application: Apply by boom or field sprayer using 675 L of water/ha. For mature asparagus, sprays should begin July 1, after crop has been harvested, and continue at 3-4 week intervals until defoliation in October. For immature asparagus, begin application mid-May.				
Beans (Pole, Snap)	Aphids, Grasshoppers, Bean beetles, leafhoppers, leafminers, lygus bugs, mites, tarnished plant bugs.	7-10 mL	700 mL-1 L	7	3
	<b>Remarks:</b> Apply by ground or aerial application. Do not feed or allow livestock to graze treated forage.				
Beets	Tarnished plant bugs.	7 mL	700 mL	12	3
	<b>Remarks:</b> Ground application ONLY.				
Bok Choi, Chicory, Chinese Broccoli	Aphids	6-10 mL	600 mL-1L	7	3
	<b>Remarks:</b> Ground application ONLY. Apply in sufficient water for thorough coverage. Use ground application to foliage. Apply when aphids are present.				
Cole Crops: Broccoli, Brussel sprouts, Cauliflower	Aphids	7-10 mL	700 mL-1 L	Brussel sprouts – 21  Broccoli, Cauliflower – 4	3
	<b>Remarks:</b> Ground application ONLY.				
Broccoli, Cauliflower	Thrips	6-12 mL	550 mL- 1.25 L	4	3
	<b>Remarks:</b> Ground application ONLY. Apply at 10 day intervals starting at head formation.				
Celery	Aphids, including carrot, green peach and foxglove aphids	7 mL	700 mL	3	3
	<b>Remarks:</b> Ground application ONLY. Begin application 3 weeks after transplanting.				
Eggplant	Tarnished plant bug	5-7 mL	500-700 mL	7	2
	<b>Remarks:</b> Ground application ONLY. Apply when bugs are found and flowering is seen. Treat again in 7-10 days if bugs are found. Consult local authorities for proper timing. Do not apply when bees are foraging.				

Leafy Vegetables: Beet greens, Kale, Lettuce*, Swiss chard, Turnip greens.	Aphids, Leafhoppers	7 mL	700 mL	Beet greens - 12 days Kale, Lettuce*, Swiss chard, Turnip greens – 7 days *do not apply to head lettuce	2
	<b>Remarks:</b> Ground application ONLY. Use sufficient water for good coverage.				
Peas (canning and field)	Aphids	2.5-4 mL	275-425 mL	3	2
	<b>Remarks:</b> Apply by ground or aerial application. Use sufficient water for good coverage. Repeat application as necessary. Do not feed or graze for forage within 21 days after last application. Dilute for ground (100-300 L of water/ha) and aerial application (10-30 L of water/ha).				
Peppers	Aphids, Maggots	7-10 mL	700 mL - 1 L	3	3
	<b>Remarks:</b> Ground application ONLY.				
Potatoes, Tomatoes (field)	Aphids, Leafhoppers, Tarnished Plant Bugs	5-10 mL	550 mL - 1.1 L	7	3
	<b>Remarks:</b> Ground application ONLY. Consult local agricultural authorities for proper timing.				

		RATE OF CYGON 480 EC SYSTEMIC INSECTICIDE PER		
FIELD CROPS	INSECTS CONTROLLED	HECTARE	PREHARVEST INTERVALS (DAYS)	MAXIMUM # OF APPLICATIONS PER SEASON
Alfalfa (for seed and forage production)	Aphids, leafhoppers, reduction of alfalfa weevil larvae, lygus bugs, plant bugs	425 mL	2	2
	Blotch leafminers	550 mL	2	1
	<b>Remarks:</b> Apply by ground or aerial application. Use a water volume of at least 200 L/ha with ground equipment for Blotch leafminers. Do not apply during bloom.			
	Grasshoppers-nymphs	550 mL	2	1
	Grasshoppers-adults or winged	850-900 mL	7	2
<b>Remarks (Grasshoppers):</b> Apply by ground or aerial application. Follow provincial forecast. Apply when insects are present as young hoppers or signs of insect damage are evident. Apply when the grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development. Under severe insect pressure, application should also be made to a 15 metre strip along fence rows around the field. DO NOT APPLY TO ADJACENT UNREGISTERED CROPS. The higher rate should be used when the proportion of mature and late nymphal stages in the population are high and spray penetration is inhibited by dense crop canopy.				
Alfalfa (seed production only)	Lygus bugs, Plant bugs	1.1 L	28	1
	<b>Remarks:</b> Apply by ground or aerial application. Apply just before alfalfa begins to bloom. Allow at least 10 days before placing leaf cutting bees in the field.			

Canary Grass (Grown for seed)	Aphids	500 mL	21	2
	<b>Remarks:</b> Apply by ground or aerial application. Apply when there are more than 50 aphids per canary seed head between heading and soft dough stage.			
Canola	Aphids, Leafhoppers, Grasshoppers	850-900 mL	21	3
	<b>Remarks:</b> Apply by ground or aerial application.			
Cereals- wheat, oats, barley, rye	Grasshoppers-nymphs, Say stink bugs	550 mL	2	2
	Grasshoppers-adults	850 mL–1 L	Forage/grazing: 7 Grain: 21	2
	<b>Remarks (Grasshoppers):</b> Apply by ground or aerial application. Follow provincial forecast. Apply when the grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development. Under severe insect pressure application should also be made to a 15 metre strip along fence rows around the field. DO NOT APPLY TO ADJACENT UNREGISTERED CROPS. The higher rate should be used when the proportion of mature and late nymphal stages in the population are high and spray penetration is inhibited by dense crop canopy.			
	Aphids (wheat, oats, and barley only)	425 mL	2	2
	Thrips (wheat, oats, and barley only)	1L	Forage/grazing: 7 Grain: 21	2
	<b>Remarks (Aphids and Thrips):</b> Apply by ground or aerial application. For ground application, use sufficient water to obtain good coverage (usually 110 - 275 L/ha). With aerial equipment, use 10 to 30 L of water per hectare.			
	Orange blossom wheat midge, Russian wheat aphid (wheat only)	1 L	Forage/grazing: 7 Grain: 21	2
	<b>Remarks:</b> Apply by ground or aerial application. If midge population persists at 3 - 7 days apply a second treatment. Use a water volume of at least 100 L/ha with ground equipment and 50 L/ha by air. Higher volume will provide more thorough coverage. 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 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 km/h. Higher volume sprays will improve penetration of the crop. Proper timing of application is essential for control. Do not apply to areas where bees are actively foraging or near apiaries as product is toxic to bees. Consult provincial authorities for further information concerning rates and time of application.			
Flax	Potato Aphid	430 mL	21	1
	<b>Remarks:</b> Apply by ground or aerial application. Apply from late flowering to early green bole stage; in sufficient water to provide good coverage. Use in 200 L/ha of water for ground and 11 - 22 L of water/ha for aerial equipment.			
Pastures, Waste areas	Grasshoppers - nymphs	550 mL	2	2
	Grasshoppers - adults	850 mL-1L	7	2
	<b>Remarks:</b> Apply by ground or aerial application. Follow provincial forecast. Apply when insects are present as young hoppers or signs of insect damage are evident. Apply when the grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development. Under severe insect pressure application should also be made to a 15 metre strip along fence rows around the field. DO NOT APPLY TO ADJACENT UNREGISTERED CROPS. The higher rate should be used when the proportion of mature and late nymphal stages in the population are high and spray penetration is inhibited by dense crop canopy. Use high rate for adult grasshopper control on wasteland. Remove cattle before spraying.			
Safflower	Grasshoppers (nymphs and adults)	550 mL-1 L	21	2

	<b>Remarks:</b> Apply by ground or aerial application. Apply when damage is apparent and more than 15 grasshoppers per square meter are found in the crop. Repeat the application only when necessary. Use sufficient water for good coverage.			
Soybeans	Aphids, bean beetles, leafhoppers, tarnished plant bugs, lygus bugs	700 mL-1 L	30	3
	<b>Remarks:</b> Apply by ground or aerial application. Use sufficient water for good coverage. Repeat applications as necessary. Do not feed or graze treated foliage to livestock.			
	Spider mites (Two- spotted)	1 L	30	2
	<b>Remarks:</b> Apply by ground or aerial application. Apply by ground application in sufficient water for thorough coverage. Do not feed or allow livestock to graze treated forage.			
Sweet Clover, Red Clover, Alsike Clover	Sweet clover weevil	850 mL-1.1 L	28	2
	<b>Remarks:</b> Apply by ground or aerial application. Do not graze or harvest for forage within 28 days after treatment.			

**FRUIT CROPS:**

**APPLY WITH GROUND EQUIPMENT ONLY UNLESS OTHERWISE NOTED. FOR DILUTE GROUND APPLICATIONS, USE DESIGNATED AMOUNT OF CYGON 480 EC SYSTEMIC INSECTICIDE IN 1000 LITRES OF WATER UNLESS OTHERWISE SPECIFIED. For Cherry and Peach, the rate per hectare is based on using 3000 L of spray on full sized trees, 4.5-5.5 metres high. Trees smaller or larger may require more or less CYGON 480 EC SYSTEMIC INSECTICIDE. Follow provincial calendar guidelines as to water volumes for the size of tree being sprayed.**

FRUIT CROPS	INSECTS CONTROLLED	RATE OF CYGON 480 EC SYSTEMIC INSECTICIDE PER		PREHARVEST INTERVALS (DAYS)	MAXIMUM # OF APPLICATIONS PER SEASON
		1000 L WATER	HECTARE		
Blueberry (Lowbush and Highbush)	Blueberry maggot	580-825 mL	NA	15	2
	<p><b>Remarks:</b> Apply by ground or aerial application. Apply pesticide in sufficient water for good coverage, one week after first berries ripen. Do not apply foliar spray when daytime temperatures are over 25°C. Use no more than 1000 L spray/ha. Make 1 or 2 applications between mid to late July, 10-12 days apart. May vary depending on area and season. If using an air-blast orchard sprayer to apply CYGON 480 EC SYSTEMIC INSECTICIDE, weather conditions should be checked frequently (every 15 minutes) during application as wind speed and direction, air temperature and relative humidity all affect the spray application of pesticides. Wind speed should be from 2 to 10 km/h. Relative humidity should not be less than 50%. Air temperature should not exceed 25°C.</p>				
Cherries (sweet and sour)	Black and western cherry fruit fly maggots.	500 mL	2.25 L	21	2
	<p><b>Remarks:</b> Ground application ONLY. Apply no later than 6 days after the first adult fly is trapped. Apply once only to sweet cherries prior to harvest. On sours, 2 applications, 14 days apart, may be necessary.</p>				
Filberts, Hazelnuts	Aphids	NA	5 L	45	1
	<p><b>Remarks:</b> Ground application ONLY. Use one application per season. Apply when aphids appear. Primarily for use on young plants.</p>				
Pears	Aphids, mites, pear psylla	1-1.25L	NA	14	2
	<p><b>Remarks:</b> Ground application ONLY. Apply when insects first appear using sufficient water for good coverage. Repeat as necessary.</p>				
	Tarnished Plant bugs	625 mL	NA	14	2
<p><b>Remarks:</b> On pears apply at pre-bloom.</p>					
Peaches (non-bearing)	Tarnished Plant bugs	550 mL	1.75 L	NA	2
	<p><b>Remarks:</b> Ground application ONLY. Apply first spray at pink and repeat at shuck fall.</p>				
	Aphids, mites	1-1.5L	NA	NA	2
<p><b>Remarks:</b> Spray when insects first appear and repeat at monthly intervals or 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 good.</p>					
Strawberries (bearing)	Tarnished plant bugs, aphids, mites	1.25L	2.75L	7	2
	<p><b>Remarks:</b> Ground application ONLY. Apply first spray when first blooms appear and the second application 10 to 12 days later.</p>				
Strawberries (non-bearing)	Aphids, mites	1 L	2.25 L	7	3
	<p><b>Remarks:</b> Ground application ONLY. Spray when insects first appear and repeat at monthly intervals or as necessary, using sufficient water for good coverage.</p>				

**FLOWERING PLANTS:** The uses listed below are foliar sprays unless otherwise indicated (Outdoor plants only). DO NOT APPLY BY AIR.

FLOWERING PLANTS	INSECTS CONTROLLED	RATE OF CYGON 480 EC SYSTEMIC INSECTICIDE PER	
		10 LITRES WATER	1000 LITRES WATER
Azaleas	Lace bugs, leaf miners, mites, white flies	10 mL	1 L
Camellias	Aphids, mites, camellia scale	10 mL	1 L
	<b>Foliar spray:</b> Apply 2 sprays 6 weeks apart the first year followed by annual applications soon after first growth begins in the spring. <b>Soil drench:</b> Apply CYGON 480 EC SYSTEMIC INSECTICIDE 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.		
Carnations	Aphids, thrips, mites	10 mL	1 L
	<b>Soil drench:</b> Apply as a soil drench at the rate of 125 mL per 100 sq. m. of bed or bench (14 Litres per hectare) in sufficient water for even distribution. Water in thoroughly after application.		
Day Lilies	Aphids, Thrips	20 mL	2 L
Euonymus	Aphids, scale	20 mL	2 L
Gardenias	White flies	10 mL	1 L
Gerberas	Thrips	10 mL	1 L
Gladiolus	Aphids, thrips	10 mL	1 L
Iris	Aphids, iris borer, thrips	20 mL	2 L
	<b>Remarks:</b> For borer control spray when new leaves are 12-15cm tall.		
Poinsettias (outdoor plants)	Aphids, white flies, mites, mealy bugs	10 mL	1 L
Roses (outdoor plants)	Aphids, leaf hoppers, mites, thrips	10 mL	1 L
	<b>Remarks:</b> Apply thoroughly every 4 weeks during growing season. <b>PAINT ON TREATMENT:</b> Mix 1 part CYGON 480 EC SYSTEMIC INSECTICIDE with 1 part water. Paint a 2.5 cm band of the mixture around the base of the rose stem. Paint old wood as new growth may be injured. For best insect control, make the first treatment when leaf buds start to swell in the spring and repeat applications as necessary.		

**ORNAMENTAL SHRUBS (Outdoor Plants Only) DO NOT APPLY BY AIR.**

ORNAMENTAL SHRUB	INSECTS CONTROLLED	RATE OF CYGON 480 EC SYSTEMIC INSECTICIDE PER	
		10 LITRES WATER	1000 LITRES WATER
Arborvitae	Aphids, bagworms, mites	20 mL	2 L
Holly (English and American)	Mites, soft scale leaf miners	10 mL	1 L
	<b>Remarks:</b> 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.		
Juniper	Aphids, bagworms, Midges, miners	20 mL	2 L
Lilac (Syringa spp.)	Leaf miners	12.5 mL	1.25 L
	<b>Remarks:</b> 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.		
	<b>PAINT ON TREATMENT:</b> Mix 1 part CYGON 480 EC SYSTEMIC INSECTICIDE with 1 part water. Apply the mixture in a band 8 cm wide, approximately 30 cm above ground on each stem. Make the first application when first leaves appear, and the second application in late July.		
Taxus	Mites, Fletcher Scale, mealy bugs	20 mL	2 L
	<b>Remarks:</b> For Fletcher scale spray at the end of June and again 20 days later when the crawlers are moving.		

**ORNAMENTAL, FORESTRY, AND CHRISTMAS TREES: GROUND APPLICATION ONLY**  
(Unless Specified).

TREE	INSECTS CONTROLLED	RATE OF CYGON 480 EC SYSTEMIC INSECTICIDE PER	
		10 LITRES WATER	1000 LITRES WATER
Birch	Aphids, birch leaf miners	5 mL	500 mL
	FOLIAR SPRAY: For leaf miners apply when leaves are expanded (about mid-May); repeat the last week in June.		
	SOIL DRENCH: For full-season control CYGON 480 EC SYSTEMIC INSECTICIDE may be used as a soil drench once in early May when the leaves start to open. Apply CYGON 480 EC SYSTEMIC INSECTICIDE undiluted at a rate of 11 mL/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 leafminers 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 eg: cutleaf and silver birch may be damaged by excessive amounts of CYGON 480 EC SYSTEMIC INSECTICIDE. Therefore, apply no more than the recommended dosage.		
	Birch leafminers	5 mL	500 mL
	PAINT ON TREATMENT: Mix 1 part CYGON 480 EC SYSTEMIC INSECTICIDE with 1 part of water. Paint the mixture in a band around the trunk below the lowest branch. Change the band location with each application. Do not treat birch trees with trunks less than 3 cm in diameter. Newly transplanted birch trees may be injured. For larger trees, the width of the band should be equal to the thickness of the trunk at the location up to a maximum of 15 cm. Make first application in May when leaf bud tips appear green, and the second application in late June in early season areas, and in early July in cooler areas. Do not make more than two treatments per season.		
Boxwood	Mites, Leaf miners, mealy bugs	10 mL	1 L
	<b>Remarks:</b> 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
	<b>Remarks:</b> For leaf miners apply in early May or late August.		
Christmas Trees: Balsam Fir, Spruce, Hemlock, Pine (Mugho, Red, Scots)	Aphids, mites, scales, Spruce needle miners, Spruce budworms	15 mL	1.5 L
	Bagworms, European pine shoot moths, Nantucket pine tip moths, Zimmerman pine moths	20 mL	2 L
Douglas Fir Seed Tree	Cone insects (cone or gall midge, cone moths, seed chalcid, scale midge).	5 L per 100 litres of water. Apply with a mist blower. 2.5 L per 100 litres of 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.	
Hemlock	Mites, scale, spruce needle miners, spruce budworm	10 mL	1 L
Oak	Golden oak scale	20 mL	2 L
Pine (mugho, red, Scots)	Red and black-headed pine sawfly larvae	10 mL	1 L
	Aphids, bagworms, European pine shoot moth, pine tip moth, Zimmerman pine moth	20 mL	2 L
	<b>Remarks:</b> 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 litres 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).	
Spruce (woodland use)	Seed and cone insects	104 - 208 mL	10.4 - 20.8 L
	<b>Remarks:</b> Thoroughly spray cone-bearing portions of tree to point of run-off using ground hydraulic spray equipment, when cones 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.		

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

#### RESTRICTED USES - FORESTRY USE

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

**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.

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

#### RESTRICTED USE - AERIAL APPLICATION

TREE	PESTS CONTROLLED	COMMENTS
Hemlock, Spruce, Balsam fir	Mites, Scales, Spruce needle miners, Spruce budworms	For aircraft application use 1.5 L of CYGON 480 EC SYSTEMIC INSECTICIDE in 5-20 L of water/ha, applied as a uniform spray of fine droplets. Application should be made as soon as the larvae hatch.