Group 1B Insecticide

CYGON® 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.

ACTIVE INGREDIENT: Dimethoate 480 g/L

REGISTRATION NO. 9807 PEST CONTROL PRODUCTS ACT



Interprovincial Cooperative Limited, P.O. Box 1050, Saskatoon, Saskatchewan S7K 3M9 1-204-233-3461 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. 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. Keep the following personal protective equipment immediately available for use in case of emergency (for example, a broken package, spill, or equipment breakdown): chemical-resistant coveralls, chemical-resistant gloves, chemical-resistant head gear and a respirator. 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. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings. Not for use in greenhouses. This product is not to be used around homes or other residential areas such as parks, school grounds, and/or playing fields. It is not for use by homeowners or other uncertified users.

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT: Please refer to the label for specific directions, equipment and controls regarding mixing/loading liquids and application by: air, groundboom, airblast, handheld equipment, manually-pressurized handwand or backpack, right-of-way sprayer, soil drench, soil injection or chemigation.

ENVIRONMENTAL PRECAUTIONS: TOXIC to bees. Bees may be exposed through direct spray, spray drift, and residues on leaves, pollen and nectar in flowering crops and weeds. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in groundcover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Spraying – Best Management Practices" on the Health Canada website (www.healthcanada.gc.ca/pollinators). Follow crop specific directions for application timing. For applications on crops that are highly attractive to pollinators (alfalfa, clovers, canola, safflower, blueberries, cherries, peaches, pears, asparagus, and outdoor ornamentals excluding coniferous evergreens), or when using managed bees for pollination services: DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms. For applications on all other crops: Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. TOXIC to birds, mammals and aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE. 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. To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (for example, soils that are compacted or fine textured such as clay).

Avoid application of this product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

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: This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

Dimethoate is an organophosphate that is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, and runny nose and eyes. This may progress to muscle twitching, weakness, tremor, incoordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote.

Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician.

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 scrubbings 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.

® Trademark of Cheminova

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

RC 544-0316

CYGON® 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. 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. Keep the following personal protective equipment immediately available for use in case of emergency (for example, a broken package, spill, or equipment breakdown): chemical-resistant coveralls, chemical-resistant gloves, chemical-resistant head gear and a respirator. 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. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings. Not for use in greenhouses. This product is not to be used around homes or other residential areas such as parks, school grounds, and/or playing fields. It is not for use by homeowners or other uncertified users.

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EOUIPMENT:

- A. Mixing/loading liquids (for all uses except forestry): Wear chemical resistant coveralls over long pants and a long-sleeved shirt, chemical resistant footwear plus socks, chemical resistant gloves, goggles or a face shield and suitable respiratory protection. Suitable respiratory protection is defined as either a respirator with a NIOSH approved organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH approved canister approved for pesticides.
- B. Mixing/loading liquids (forestry: hemlock, spruce and balsam fir): Use a closed system for aerial mixing/loading for forestry use (hemlock, spruce and balsam fir). Wear cotton coveralls over long pants and a long-sleeved shirt, chemical resistant footwear plus socks, chemical resistant gloves, goggles or a face shield.
- C. Mixing/loading liquids (forestry: Douglas-fir (seed tree), Sitka spruce (seed tree), spruce (seed tree and woodland)): During mixing, loading, clean-up and repair, wear chemical resistant coveralls over long pants and a long-sleeved shirt, chemical resistant footwear plus socks, chemical resistant gloves, goggles or a face shield and suitable respiratory protection. Suitable respiratory protection is defined as either a respirator with a NIOSH approved organicvapour-removing cartridge with a prefilter approved for pesticides or a NIOSH approved canister approved for pesticides.
- D. Applying by air: Wear cotton coveralls over long pants, and a long-sleeved shirt, shoes, plus socks.
- E. Applying by groundboom: During groundboom application use a closed cab that provides both a physical barrier and respiratory protection (for example, dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab. Wear cotton coveralls over long pants and a long-sleeved shirt, chemical resistant footwear plus socks. Chemical resistant gloves are not required to be worn while driving closed cab equipment but are required for clean-up and repair activities.
- F. Applying by airblast: During airblast application use a closed cab that provides both a physical barrier and respiratory protection (for example, dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab. Wear cotton coveralls over long pants and a long-sleeved shirt, chemical resistant footwear plus socks. Chemical resistant gloves are not required to be worn while driving closed cab equipment but are required for clean-up and repair activities.
 - If a closed cab is not feasible, wear chemical resistant coveralls over long pants and a long-sleeved shirt, chemical resistant footwear plus socks, chemical resistant gloves and chemical-resistant headgear. Chemical resistant headgear includes sou'westers, or large brimmed, water-proof hats, and hoods with sufficient neck protection. Avoid touching face or other unprotected parts of the body during application.

- G. Applying by handheld equipment: Wear chemical resistant coveralls over long pants and a long-sleeved shirt, chemical resistant footwear plus socks, chemical resistant gloves and suitable respiratory protection. Suitable respiratory protection is defined as either a respirator with a NIOSH approved organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH approved canister approved for pesticides. Limit the amount of active ingredient handled per day to 2.8 kg per person (for example, approximately 2950 L at a rate of 0.96 g a.i./L) when applying by handheld equipment.
- H. Applying by manually-pressurized handwand or backpack (Douglas-fir (seed tree), Sitka spruce (seed tree), spruce (seed tree and woodland)): During manually-pressurized handwand, or backpack application, wear chemical resistant coveralls over long pants and a long-sleeved shirt, chemical resistant footwear plus socks, chemical resistant gloves and suitable respiratory protection. Suitable respiratory protection is defined as either a respirator with a NIOSH approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH approved canister approved for pesticides.
 - DO NOT apply using mechanically-pressurized handgun equipment. Only for use with manually-pressurized hand wands or backpack sprayers.
- I. Applying by right-of-way sprayer: During mixing, loading, application, clean-up and repair, wear chemical resistant coveralls over long pants and a long-sleeved shirt, chemical resistant footwear plus socks, chemical-resistant gloves, goggles or a face shield.
- J. Applying by soil drench, soil injection or chemigation: Wear chemical resistant coveralls over long pants and a long-sleeved shirt, chemical resistant footwear plus socks, chemical resistant gloves and suitable respiratory protection. Suitable respiratory protection is defined as either a respirator with a NIOSH approved organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH approved canister approved for pesticides.

ENVIRONMENTAL PRECAUTIONS:

TOXIC to bees. Bees may be exposed through direct spray, spray drift, and residues on leaves, pollen and nectar in flowering crops and weeds. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in groundcover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Spraying – Best Management Practices" on the Health Canada website (www.healthcanada.gc.ca/pollinators). Follow crop specific directions for application timing.

For applications on crops that are highly attractive to pollinators (alfalfa, clovers, canola, safflower, blueberries, cherries, peaches, pears, asparagus, and outdoor ornamentals excluding coniferous evergreens), or when using managed bees for pollination services:

DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.

For applications on all other crops:

Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging.

TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

TOXIC to birds, mammals and aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE. 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. To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (for example, soils that are compacted or fine textured such as clay).

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

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.

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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 scrubbings 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.

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DIRECTIONS FOR USE:

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 predicable 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:

Mop-head Elm American Elm Mock Orange Norway Maple 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.

Field Sprayer Application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) fine classification. Boom height must be 60 cm or less above the crop or ground.

Airblast Application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends, and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Aerial Application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) fine classification. Reduce drift caused by turbulent wingtip vortices. The nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

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.

Pollinator Protection:

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. Refer to the use directions for crop specific application information.

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.

Spray Buffer Zones to Protect Sensitive Habitat:

Spot treatments using hand-held equipment do not require a spray buffer zone. Use of soil drench or soil incorporation do not require a spray buffer zone.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the

		Spray Buffer Zor	nes (metres) Re	equired for the	ne Protection of:
Method of application	Crop	Freshwater Habit	at of Depths:	Estuarine/Marine Habitat of Depths:	
Tr		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field		Field crops			
sprayer	Canary grass (seed production), flax	1	0	1	0
	Canola (rape)	1	1	1	1
	Alfalfa (forage and seed production), clover (sweet, red, alsike), cereals (barley, oats, rye, wheat), forage crops (clover, grasses, hay, grain), non-cropland (fence rows, field edges except adjacent to unregistered crops), pastures and wastelands, safflower, soybeans	2	1	1	1
		Vegetables			
	Peas (field and/or canning)	1	0	1	0
	Beans (pole, snap), beets, celery, eggplant, leafy vegetables (beet greens, kale, leaf lettuce, Swiss chard, turnip greens)	1	1	1	1
	Bok choi (pak choi), chicory, Chinese broccoli, cole crops (brussel sprouts), peppers, potatoes, tomatoes	2	1	1	1
	Cole crops (broccoli, cauliflower)	2	1	2	1
	Asparagus	3	1	2	1
		Berries			
	Blueberry (low and highbush)	1	1	1	1
	Strawberries	3	2	3	1
	Outdoor orn	amental trees and	shrubs		
	Birch	1	0	1	0
	Boxwood, hemlock, holly (English, American)	1	1	1	1
(Mu Arbo	Christmas Trees: Balsam fir, hemlock, pine (Mugho, red, Scots), spruce; Ornamental trees: Arborvitae, cedar, juniper, oak, pine (Mugho, red, Scots), Taxus (yew), lilac (Syringa spp.)	2	1	2	1
	Larch	3	2	4	2
	Douglas-fir (seed tree), spruce (seed tree and woodland)	10	5	10	5

-02 1 02 11							
	Sitka spruce (seed tree)	,	15	5	10	5	
		Ori	namental plants				
	Azaleas, camellias, gar poinsettias, roses	denias, gerberas, gladioli,	1	1	1	1	
	Day lilies, Euonymus,	irises	2	1	2	1	
Airblast			Orchards				
		Early growth stage	10	4	10	3	
	Cherries (sour, sweet)	Late growth stage	5	2	4	2	
	Tree nuts (filberts,	Early growth stage	15	5	20	10	
	hazelnuts)	Late growth stage	5	3	10	4	
	D	Early growth stage	15	5	15	5	
	Pears	Late growth stage	10	3	5	3	
	D 1	Early growth stage	20	10	15	5	
	Peaches	Late growth stage	10	4	10	4	
	Berries						
	Blueberry (low and	Early growth stage	4	1	3	1	
	highbush)	Late growth stage	2	1	2	1	
	Outdoor ornamental trees and shrubs						
	Birch	Late growth stage	1	0	1	0	
	Boxwood, hemlock, holly (English, American)	Late growth stage	2	1	2	1	
	Lilac (Syringa spp.)	Late growth stage	3	1	3	1	
Balsam f pine (Mu Scots), sp Ornamen Arbour v juniper, o (Mugho,	Christmas Trees: Balsam fir, hemlock, pine (Mugho, red, Scots), spruce; Ornamental trees: Arbour vitae, cedar, juniper, oak, pine (Mugho, red, Scots), Taxus (yew)	Late growth stage	4	2	4	2	
	Larch	Late growth stage	5	3	10	4	
	Spruce (seed tree and woodland)	Late growth stage	20	10	25	15	
	Douglas fir (seed tree)	Late growth stage	25	15	20	15	

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	Sitka spruce (seed tree)	Late growth stage	25	15	25	15			
		C	Ornamental plants		_				
	Poinsettias, roses	Late growth stage	2	1	2	1			
	Euonymus	Late growth stage	4	2	4	2			
Aerial			Field crops						
	Canary grass (seed	Fixed wing	1	0	1	0			
	production), flax	Rotary wing	1	0	1	0			
	Canala (rana)	Fixed wing	5	1	2	1			
	Canola (rape)	Rotary wing	3	1	1	1			
	Alfalfa (forage and	Fixed wing	10	1	5	1			
	seed production), clover (sweet, red, alsike)	Rotary wing	5	1	3	1			
	Cereals (barley, oats, rye, wheat), forage	Fixed wing	10	1	5	1			
crop gras non row excunro pass was	crops (clover, grasses, hay, grain), non-cropland (fence rows, field edges except adjacent to unregistered crops), pastures and wastelands, safflower, soybeans	Rotary wing	5	1	1	1			
		Vegetables							
	Peas (field and/or	Fixed wing	1	0	1	0			
	canning)	Rotary wing	1	0	1	0			
	Beans (pole, snap),	Fixed wing	5	1	5	0			
	soybeans	Rotary wing	3	1	1	0			
			Berries						
	Blueberry (low and	Fixed wing	4	1	1	1			
	highbush)	Rotary wing	1	1	1	1			
			Forestry						
	Hemlock, spruce,	Fixed wing	90	0	150	15			
	balsam fir	Rotary wing	55	0	90	1			

^{*}The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

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.

CROP SPECIFIC APPLICATIONS:

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.

VEGETABLE CROPS:

CYGON 480 EC is TOXIC to bees. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period. For Asparagus, DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.

VEGETABLE	INSECTS CONTROLLED	RATE OF CYGON 480 E	C DED.	PREHARVEST	MAXIMUM #	MINIMUM APPLICATION
CROPS		10 L WATER		INTERVALS (DAYS)	APPLICATIONS PER SEASON	INTERVAL (DAYS)
Asparagus	Asparagus aphid	35 mL	2.3 L	NA	2	7
	Remarks: Ground application					
	be applied postharvest only,	but if applied		aragus do not har	vest for feed or fo	od.
Beans (Pole,	Aphids, Grasshoppers,	7-10 mL	700 mL-1 L	7	2	7
Snap)	Bean beetles, leafhoppers,					
	leafminers, lygus bugs,					
	mites, tarnished plant					
	bugs.					
	Remarks: Apply by ground	or aerial appl	ication. Do not fe	ed or allow livest	ock to graze treate	ed forage.
Beets	Tarnished plant bugs.	7 mL	700 mL	12	2	7
	Remarks: Ground application	on ONLY.				
Bok Choi,	Aphids	6-10 mL	600 mL-1 L	7	2	7
Chicory, Chinese	Remarks: Ground applicati	on ONLY. Ap	ply in sufficient	water for thorougl	n coverage. Use gr	ound application to
Broccoli	foliage. Apply when aphids	are present.				
Cole Crops:	Aphids	7-10 mL	700 mL-1 L	Brussels	2	7
Broccoli,				sprouts – 21		
Brussels sprouts,						
Cauliflower				Broccoli,		
				Cauliflower – 7		
	Remarks: Ground application	on ONLY.	·		·	·

Broccoli,	Thrips	6-12 mL	550 mL-1.25 L	7	2	7
Cauliflower	Remarks: Ground applicat	ion ONLY. Ap	ply at 10 day inte	rvals starting at h	ead formation.	
Celery	Aphids, including carrot,	7 mL	700 mL	7	2	7
	green peach and foxglove					
	aphids					
	Remarks: Ground applicat	ion ONLY. Be	gin application 3	weeks after transp	olanting.	
Eggplant	Tarnished plant bug	5-7 mL	500-700 mL	7	2	7
	Remarks: Ground applicat	ion ONLY. Ap	ply when bugs ar	e found and flower	ering is seen. Trea	t again in 7-10 days
	if bugs are found. Consult l	ocal authorities	s for proper timin	g. Do not apply w	hen bees are forag	ging.
Leafy	Aphids, Leafhoppers	7 mL	700 mL	Beet greens -	2	Beet Greens,
Vegetables: Beet				12		Lettuce*, Swiss
greens, Kale,						Chard, Turnip
Lettuce*, Swiss				Kale, Lettuce*,		Greens - 7
chard, Turnip				Swiss chard,		
greens				Turnip greens –		Kale - 15
* •				14		
*do not apply to	D 1 C 1 1' 4	CNITALI	CC : 1	C 1		
head lettuce	Remarks: Ground applicat			for good coverag		
Peas (canning	Aphids	2.5-3.6 mL	275-380 mL	3	2	7
and field)	Remarks: Apply by ground					
	necessary. Do not feed or g			fter last applicatio	n. Dilute for groun	nd (100-300 L of
	water/ha) and aerial applica					T
Peppers	Aphids, Maggots	7-10 mL	700 mL-1 L	3	2	7
	Remarks: Ground applicat		•	T		T
Potatoes,	Aphids, Leafhoppers,	5-9 mL	550 mL-1 L	7	2	7
Tomatoes (field)	Tarnished Plant Bugs					
	Remarks: Ground applicat	ion ONLY. Co	nsult local agricu	ltural authorities t	for proper timing.	

FIELD CROPS:

CYGON 480 EC is TOXIC to bees. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period. For Alfalfa, Canola, Safflower and Clovers, DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms. NB. Cereals (wheat, oats, barley and rye) do not require specific pollinator toxicity precautionary directions.

FIELD CROPS	INSECTS CONTROLLED	RATE OF	PREHARVEST &	MAXIMUM #	MINIMUM
		CYGON 480 EC	PREGRAZING	APPLICATIONS	APPLICATION
		PER HECTARE	INTERVALS (DAYS)	PER SEASON	INTERVAL (DAYS)
Alfalfa (for seed	Aphids, leafhoppers, reduction of alfalfa	425 mL		2	7
and forage	weevil larvae, lygus bugs, plant bugs		10 days PHI/PGI		
production)	Blotch leafminers	550 mL		1	NA
	Remarks: Apply by ground or aerial app	lication. Use a w	ater volume of at leas	t 200 L/ha with gr	ound equipment
	for Blotch leafminers. Do not apply durin	ıg bloom.		_	
	Grasshoppers-nymphs	550 mL	10 days PHI/PGI	1	NA
	Grasshoppers-adults or winged	850-900 mL	10 days Fill/I Of	2	7
	Remarks (Grasshoppers): Apply by gro				
	are present as young hoppers or signs of i				
	nymphal stage. Best control will be achie				
	insect pressure, application should also be				
	APPLY TO ADJACENT UNREGISTER				
	and late nymphal stages in the population	are high and spr	ay penetration is inhib	ited by dense cro	p canopy.
Alfalfa (seed	Lygus bugs, Plant bugs	1.1 L	28	1	NA
production	Remarks: Apply by ground or aerial app		ıst before alfalfa begi	ns to bloom. Allov	w at least 10 days
only)	before placing leaf cutting bees in the fiel				
Canary Grass	Aphids	500 mL	21	2	30
(Grown for	Remarks: Apply by ground or aerial app	lication. Apply w	hen there are more th	an 50 aphids per o	canary seed head
seed)	between heading and soft dough stage.				
Canola	Aphids, Leafhoppers, Grasshoppers	850-900 mL	21	2	7
	Remarks: Apply by ground or aerial app	lication.			
Cereals- wheat,	Grasshoppers-nymphs, Say stink bugs	550 mL	35 days PHI	2	7
oats, barley, rye	Grasshoppers-adults	850 mL-1 L	14 days PGI	2	7
	Remarks (Grasshoppers): Apply by gro				
	grasshoppers are in the 2-4 nymphal stage				
	development. Under severe insect pressur				
	around the field. DO NOT APPLY TO A				
	when the proportion of mature and late ny	ymphal stages in	the population are hig	th and spray penet	ration is inhibited
	by dense crop canopy.	T	T	T	1
	Aphids (wheat, oats, and barley only)	425 mL	35 days PHI	2	7
			14 days PGI		
	Thrips (wheat, oats, and barley only)	1L	35 days PHI	2	7
			14 days PGI		
	Remarks (Aphids and Thrips): Apply b				
	to obtain good coverage (usually 110 - 27	·			1
	Orange blossom wheat midge, Russian	1 L	35 days PHI	2	7
	wheat aphid (wheat only)		14 days PGI		
	Remarks: Apply by ground or aerial app				
	treatment. Use a water volume of at least				
	provide more thorough coverage. If adult				
	when 25% of the wheat head has fully em				
	first becomes susceptible to attack by egg				
	evening when temperatures exceed 15°C				
	improve penetration of the crop. Proper ti				
	bees are actively foraging or near apiaries		are to bees. Consult pr	ovinciai authoritie	es for further
El	information concerning rates and time of	11	21	T .	37.4
Flax	Potato Aphid	430 mL	21	l l	NA

2021-02-11	Remarks: Apply by ground or aerial app	lication. Apply fr	om late flowering to e	early green bole st	age; in sufficient			
	water to provide good coverage. Use in 2							
Pastures, Waste	Grasshoppers - nymphs	550 mL	2	2	7			
areas	Grasshoppers - adults	850 mL-1L	7	2	7			
	Remarks: 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	7			
	Remarks: Apply by ground or aerial app per square meter are found in the crop. Recoverage.							
Soybeans	Aphids, bean beetles, leafhoppers, tarnished plant bugs, lygus bugs	700 mL-1 L	30	2	7			
	Remarks: 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	7			
	Remarks: 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,	Sweet clover weevil 850 mL-1.1 L 28 2 7							
Red Clover, Alsike Clover	Remarks: Apply by ground or aerial app	lication. Do not g	graze or harvest for for	rage within 28 day	s 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 fruit trees (pears, cherries, peach), apply at the recommended rate; do not exceed a maximum spray volume of 3000 L per hectare unless otherwise stated. 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. CYGON 480 EC is TOXIC to bees. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period. For Blueberries, Cherries, Pears and Peaches, DO NOT apply during the crop blooming period before the crop blooms.

FRUIT CROPS	INSECTS CONTROLLED	RATE ()F	PREHARVEST	MAXIMUM #	MINIMUM
		CYGON 480 I	EC PER:	INTERVALS	APPLICATIONS	APPLICATION
		1000 L WATER	HECTARE	(DAYS)	PER SEASON	INTERVAL (DAYS)
Blueberry	Blueberry maggot	580-825 mL	NA	21	2	10-12 days
(Lowbush and	Remarks: Apply by ground or aerial					
Highbush)	after first berries ripen. Do not apply	foliar spray whe	n daytime to	emperatures 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 depen	ding on area and
	season. If using an air-blast orchard s	sprayer to apply (CYGON 48	0 EC SYSTEM	IC INSECTICIE	E, weather
	conditions should be checked frequen	ntly (every 15 mi	nutes) durir	ng application a	s wind speed and	l direction, air
	temperature and relative humidity all	affect the spray	application	of pesticides. V	Vind speed shoul	d be from 2 to 10
	km/h. Relative humidity should not b	pe less than 50%.	Air temper	ature should no	t exceed 25°C.	
Cherries (sweet	Black and western cherry fruit fly	500 mL	2.25 L	21	Sweet	Sweet cherries:
and sour)	maggots.				cherries: 1	NA
					Sour cherries:	Sour cherries: 14
					2	
	Remarks: Ground application ONL'	Y. Apply no late	r than 6 day	s after the first	adult fly is trapp	ed. Apply once
	only to sweet cherries prior to harvest. On sours, 2 applications, 14 days apart, may be necessary.					
Filberts,	Aphids	NA	5 L	45	1	NA
Hazelnuts	Remarks: Ground application ONL	Y. Use one applic	cation per se	eason. Apply w	hen aphids appea	r. Primarily for use

	on young plants.						
Pears	Aphids, mites, pear psylla 1-1.25L NA 28 2 10						
		Remarks: Ground application ONLY. Apply when insects first appear using sufficient water for good coverage.					
	Repeat as necessary.	11.					
	Tarnished Plant bugs	625 mL	NA	28	2	10	
	Remarks: On pears apply at pre-bloo	om.					
Peaches (non-	Tarnished Plant bugs	550 mL	1.75 L	40	2	10	
bearing)	Remarks: Ground application ONLY	Apply first sp	ray at pink a	ind repeat at shi	ıck fall.		
	Aphids, mites	1-1.5L	NA	40	2	10	
	Remarks: 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.						
Strawberries	Tarnished plant bugs, aphids, mites	1.25L	2.75 L	7	2	10	
(bearing)	Remarks: Ground application ONLY. Apply first spray when first blooms appear and the second application 10 to						
	12 days later.						
Strawberries	Aphids, mites	1 L	2.25 L	7	2	10	
(non-bearing)	Remarks: Ground application ONLY. Spray when insects first appear and repeat at monthly intervals or as necessary, using sufficient water for good coverage.						

FLOWERING PLANTS:

The uses listed below are foliar sprays unless otherwise indicated (Outdoor plants only). DO NOT APPLY BY AIR. CYGON 480 EC is TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.

FLOWERING PLANTS	INSECTS CONTROLLED	RATE OF CYGON 480 EC PER:		MAXIMUM #	MINIMUM
		10 L	1000 L	APPLICATIONS	APPLICATION
		WATER	WATER	PER SEASON	INTERVAL (DAYS)
Azaleas	Lace bugs, leaf miners, mites, white flies	10 mL	1 L	2	14
Camellias	Aphids, mites, camellia scale	10 mL	1 L	2	10
	Foliar spray: Apply 2 sprays 6 weeks apagrowth begins in the spring. Soil drench: drench around the base of plants in early smetres tall. Increase this rate proportionate	Apply CYGON pring at the rate	480 EC SYSTE of 60 mL in 10 l	MIC ÎNSECTICI	IDE as a soil
Day Lilies	Aphids, thrips	20 mL	2 L	1	NA
Euonymus	Aphids, scale	20 mL	2 L	2	14
Gardenias	White flies	10 mL	1 L	2	14
Gerberas	Thrips	10 mL	1 L	1	NA
Gladiolus	Aphids, thrips	10 mL	1 L	1	NA
Iris	Aphids, iris borer, thrips	20 mL	2 L	1	NA
	Remarks: For borer control spray when n	ew leaves are 12	-15cm tall.		
Poinsettias	Aphids, white flies, mites, mealy bugs	10 mL	1 L	1	NA
(outdoor plants)					
Roses	Aphids, leaf hoppers, mites, thrips	10 mL	1 L	2	10
(outdoor plants)	Remarks: Apply thoroughly every 4 weel	ks during growin	g season.		

ORNAMENTAL SHRUBS (Outdoor Plants Only)

DO NOT APPLY BY AIR. NB. CYGON 480 EC is TOXIC to bees. For Holly and Lilac trees, avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period. NB. Arborvitae, Juniper and Taxus trees do not require specific pollinator toxicity precautionary directions.

ORNAMENTAL	INSECTS CONTROLLED	RATE OF CYGO	N 480 EC PER	MAXIMUM #	MINIMUM
SHRUB		10 L	1000 L	APPLICATIONS	APPLICATION
		WATER	WATER	PER SEASON	INTERVAL (DAYS)
Arborvitae	Aphids, bagworms, mites	20 mL	2 L	2	14

Holly (English and	Mites, soft scale leaf miners	10 mL	1 L	2	14	
American)	Remarks: For leaf miners apply in spring w	hen leaf miner	flies first appea	r or in early sum	mer for the control	
	of larvae in the infested leaves.					
Juniper	Aphids, bagworms, Midges, miners	20 mL	2 L	2	14	
Lilac (Syringa spp.)	Leaf miners	12.5 mL	1.25 L	2	42	
	Remarks: 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.					
Taxus	Mites, Fletcher Scale, mealy bugs	20 mL	2 L	2	14	
	Remarks: For Fletcher scale spray at the en	d of June and a	gain 20 days lat	er when the craw	vlers are moving.	

ORNAMENTAL, FORESTRY, AND CHRISTMAS TREES:

GROUND APPLICATION ONLY (Unless Specified). NB. Cygon 480 EC is TOXIC to bees. For Birch, Boxwood, Cedar and Oak trees, avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to evening when most bees are not foraging. When using managed bees for pollination services, DO NOT apply during the crop blooming period. NB. Christmas, Douglas-Fir, Hemlock, Pine and Spruce trees do not require specific pollinator toxicity precautionary directions.

TREE	INSECTS CONTROLLED RATE OF CYGON 480 EC		ON 480 EC PER	MAXIMUM #	MINIMUM		
		10 L	1000 L	APPLICATIONS	APPLICATION		
		WATER	WATER	PER SEASON	INTERVAL (DAYS)		
Birch	Aphids, birch leaf miners	5 mL	500 mL	Foliar spray: 2	Foliar spray: 42		
				Soil drench: 1	Soil drench: NA		
	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 of 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						
	e.g.: cutleaf and silver birch may be damaged by			480 EC SYSTE	MIC		
	INSECTICIDE. Therefore, apply no more than the	ie recommende	d dosage.	1	1		
Boxwood	Mites, Leaf miners, mealy bugs	10 mL	1 L	2	14		
Boxwood				_			
	Remarks: 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	2	14		
	Remarks: For leaf miners apply in early May or late August.						
Christmas	Aphids, mites, scales, Spruce needle miners,	15 mL	1.5 L	2	14		
Trees: Balsam	Spruce budworms						
Fir, Spruce,	Bagworms, European pine shoot moths,	20 mL	2 L	2	14		
Hemlock, Pine	Nantucket pine tip moths, Zimmerman pine						
(Mugho, Red,	moths						
Scots)							
Douglas-Fir	Cone insects (cone or gall midges, cone moths,	2 L per 100 L of water. 2 10			10		
(seed tree)	seed chalcids, scale midges).						
	Remarks: Maximum rate 20 L of product (=9.6 kg a.i.) per hectare. 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						
** 1 1	important for satisfactory results. Maximum of ty		•	1 4	1		
Hemlock	Mites, scale, spruce needle miners, spruce	10 mL	1 L	2	14		
0-1	budworm	20I	2.1	2	1.4		
Oak	Golden oak scale	20 mL	2 L	2	14		
Pine (mugho,	Red and black- headed pine sawfly larvae	10 mL	1 L 2 L	2 2	14		
red, Scots)	Aphids, bagworms, European pine shoot moth, pine tip moth, Zimmerman pine moth	20 mL	2 L	2	14		
	Remarks: For pine shoot moths apply early in the spring and again in mid-June, thoroughly wetting branch tips.						
Sitka Spruce	Sitka-spruce weevils 20.8 L per 1000 L water 2 10						
(seed tree)	Remarks: Maximum rate 20.8 L of product (10 kg a.i.) per hectare. Thoroughly spray the terminal growth to the						
(seed fiet)	Tremai ks. Marinium rate 20.6 L of product (10 kg a.i.) per nectate. Thoroughly spray the terminal growth to the						

	point of runoff at the time of egg laying (usually during the first half of May). Maximum of two applications per year.					
Spruce (seed	Seed and cone insects	10.4-20.8 L per 1000 L	2 (10.4 L)	10		
tree and		water	1 (20.8 L)	NA		
woodland use)	Remarks: Maximum rate 20.8 L of product (10 kg a.i.) per hectare. Thoroughly spray cone-bearing portions of tree					
	to point of runoff when strobili cones are closed and turning, but before they reach the horizontal position. Contact your local forest pest control office for more information on timing and spray application, as well as spruce species that may be treated. Maximum of one application per year.					

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. 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	MAXIMUM # APPLICATIONS
			PER YEAR
Hemlock,	Mites, Scales, Spruce	For aircraft application use 1.5 L of CYGON	1
Spruce,	needle miners, Spruce	480 EC SYSTEMIC INSECTICIDE in 5-20 L	
Balsam fir	budworms	of water/ha, applied as a uniform spray of fine	
		droplets. Application should be made as soon as	
		the larvae hatch.	

RESTRICTED ENTRY INTERVALS:

Crops	Activity	REI (days)
Filberts (hazelnuts)	Thinning	34
	Hand harvesting, hand-line irrigation	21
	All other activities	5
Peaches	Thinning	32
	Hand harvesting, hand-line irrigation	20
	All other activities	3
Pears	Thinning	28
	Hand harvesting, hand-line irrigation	17
	All other activities	1
Cherries	Thinning	20
	Hand harvesting, hand-line irrigation	9
	All other activities	12 hrs
	Hand harvesting (high bush)	12
Blueberries	Hand harvesting (low bush) and all other	12 hrs
	activities	
Boxwood	Thinning	7
	All other activities	12 hrs
Hemlock, spruce, Balsam fir	Thinning	13
	All other activities	12 hrs
Christmas trees (Balsam fir, spruce, hemlock, pine),	Thinning	18
pine, oak, cedar	Hand-line Irrigation	3
	All other activities	12 hrs
Douglas-fir (seed tree)	Seed cone harvesting	48
	Scouting	5
	Grading, animal control, baiting	1
Sitka spruce (seed tree), spruce (seed tree and	Seed cone harvesting	49
woodland)	Scouting	5
	Hand pruning, staking, tying	27
	Grading, animal control, baiting	2
Lilac	All activities	15
Holly	All activities	12
Day lilies, irises	All activities	7
Broccoli, cauliflower	All activities	5
Bok choi (pak choi), chicory, Chinese broccoli	All activities	4
Leaf vegetables (beets and beet greens, turnip greens,	All activities	3
kale, leaf lettuce, celery)		
Azaleas, camellias, gerberas, gladioli, poinsettias,		
roses, brussel sprouts, strawberries	All activities	2
Larch	All activities	1
All other crops, soil drench or injection and	All activities	12 hours
chemigation application		