

[Container label]

CYGON® 480

SYSTEMIC INSECTICIDE – COMMERCIAL-AGRICULTURAL

Emulsifiable Concentrate - Contains Dimethoate

A Systemic Insecticide for Control of:

- insects on listed flowering plants, ornamental shrubs and trees
- insects on listed vegetable, fruit and field crops.

READ THE LABEL AND ACCOMPANYING BOOKLET BEFORE USING

SHIP AND STORE BETWEEN 4°C AND 30°C

ACTIVE INGREDIENT: Dimethoate480 g/L

WARNING

POISON



REGISTRATION NO. 8277 PEST CONTROL PRODUCTS ACT

IN CASE OF EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 1-800-331-3148

NET CONTENTS.....10 litres to BULK

FMC of Canada Limited
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
1-833-362-7722

CYGON® is a registered trademark of Cheminova A/S

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

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN

- May be harmful or fatal if swallowed, inhaled or absorbed through the skin.
- Concentrate material may cause eye irritation.
- Avoid breathing vapours or spray mist.
- Use only in adequately ventilated areas.
- Avoid contact with skin, eyes or clothing.
- Wash thoroughly with soap and water after using and before eating, drinking or smoking.
- 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.
- **DO NOT** apply in greenhouses.
- **DO NOT** contaminate food or feeds.
- 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.
- **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 have communication capabilities at each treatment site at the time of application.
- All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft and cockpit and vehicle cabs must be decontaminated regularly.

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., contact FMC at www.fmccrop.ca.

ENVIRONMENTAL PRECAUTIONS:

This product contains a 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 of equipment.

TOXIC to birds, bees and other wildlife. 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.

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:

CALL A PHYSICIAN OR POISON CONTROL CENTRE IMMEDIATELY IN ALL CASES OF SUSPECTED POISONING.

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.

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.

DECONTAMINATION:

If accidental spillage of CYGON 480 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 scrubbing is necessary on plain wood surfaces.

DISPOSAL :

Refillable Containers

For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be re-filled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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.

Returnable containers

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Recyclable containers

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.

STORAGE :

Store this product away from food or feed
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

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.

PMRA Approved Label – M.A.
2020-0143 2020-02-10

GROUP	1B	INSECTICIDE
-------	----	-------------

[Booklet label]
CYGON® 480

SYSTEMIC INSECTICIDE – COMMERCIAL-AGRICULTURAL

Emulsifiable Concentrate - Contains Dimethoate

A Systemic Insecticide for Control of:

- insects on listed flowering plants, ornamental shrubs and trees
- insects on listed vegetable, fruit and field crops.

READ THE LABEL AND ACCOMPANYING BOOKLET BEFORE USING

SHIP AND STORE BETWEEN 4°C AND 30°C

ACTIVE INGREDIENT: Dimethoate480 g/L

WARNING POISON



REGISTRATION NO. 8277 PEST CONTROL PRODUCTS ACT

IN CASE OF EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 1-800-331-3148

NET CONTENTS.....10 litres to BULK

FMC of Canada Limited
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
1-833-362-7722

CYGON® is a registered trademark of Cheminova A/S

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

**RESTRICTED USE
 AERIAL APPLICATION**

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.

TREE	Insects Controlled	RATE OF CYGON 480 SYSTEMIC INSECTICIDE PER		REMARKS
		10 litres water	1000 litres water	
Hemlock	Mites, Scales, Spruce Needle Miners	10 mL	1L	<p>For aircraft application use 1.5L CYGON 480 SYSTEMIC INSECTICIDE in 5-20 litres water per hectare, applied as a uniform spray of fine droplets. Application should be made as soon as the larvae hatch.</p> <p>Max Number of Applications per Year – 1</p> <p><u>Restricted Entry Intervals (REI):</u> Thinning – 13 days All other activities – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p>

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN

- May be harmful or fatal if swallowed, inhaled or absorbed through the skin.
- Concentrate material may cause eye irritation.
- Avoid breathing vapours or spray mist.
- Use only in adequately ventilated areas.
- Avoid contact with skin, eyes or clothing.
- Wash thoroughly with soap and water after using and before eating, drinking or smoking.
- 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.
- **DO NOT** apply in greenhouses.

- **DO NOT** contaminate food or feeds.
- 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.
- **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 have communication capabilities at each treatment site at the time of application.
- All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft and cockpit and vehicle cabs must be decontaminated regularly.

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., contact FMC at www.fmccrop.ca.

ENVIRONMENTAL PRECAUTIONS:

This product contains a 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 of equipment.

TOXIC to birds, bees and other wildlife. 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.

2023-5459
2023-10-13
Label correction made 2024-05-27

TOXIC to birds, mammals and aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

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:

CALL A PHYSICIAN OR POISON CONTROL CENTRE IMMEDIATELY IN ALL CASES OF SUSPECTED POISONING.

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.

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.

DECONTAMINATION:

If accidental spillage of CYGON 480 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 scrubbing is necessary on plain wood surfaces.

DISPOSAL :

Refillable Containers

For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be re-filled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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.

Returnable containers

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Recyclable containers

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.

STORAGE:

Store this product away from food or feed.

Do not use, pour, spill or store near heat or open flame.

2023-5459
2023-10-13
Label correction made 2024-05-27

Keep out of direct sunlight.
Ship and store between 4°C and 30°C.

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.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that CYGON 480 SYSTEMIC INSECTICIDE contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to CYGON 480 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 SYSTEMIC INSECTICIDE or other Group 1B insecticides with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that is effective on the target pest 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 FMC at 1-800-331-3148 or at www.fmccrop.ca.

APPLICATION DIRECTIONS FOR USE:

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 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.

FOR AERIAL APPLICATION: A minimum of 30 L/ha of spray solution per hectare is specified. Use a boom pressure of 235 kPa or less. Avoid placing nozzles where spray will enter wing tip vortices.

AERIAL APPLICATION INSTRUCTIONS

Use only where aerial application is indicated on this label. Apply only by fixed-wing or rotary aircraft equipment that 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. This product cannot be applied by any type of aerial equipment, where no rate for aerial application appears for the specific use. 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. Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Use low nozzle pressure (below 235 kPa). Do not apply during periods of dead calm or when wind velocity and directions pose a risk of spray drift.

Do not spray in winds exceeding 10 km per hour. 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 allow spray to drift onto sensitive areas such as water, urban and residential areas.

Spray Buffer zones: Appropriate spray buffer zones should be left between the edge of the treated field and environmentally sensitive areas such as wetlands, sloughs, rivers, houses and farm buildings and other crops grown for food.

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Mixing/loading, clean-up and repair (for all uses except forestry):

Wear chemical resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear, protective eyewear (goggles or face shield). 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.

Mixing/loading, clean-up and repair (forestry: hemlock and spruce):

Closed mixing/loading systems are required. A closed system means removing a pesticide from its original container, rinsing, mixing, diluting, and transferring the pesticide through connecting hoses and couplings that prevent exposure to the pesticide. Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and protective eyewear (goggles or a face shield).

Mixing/loading, clean-up and repair (forestry: Douglas fir (seed tree), Sitka spruce (seed tree), spruce (seed tree and woodland)):

Wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear, protective eyewear (goggles or 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.

Applying by air:

Wear coveralls over a long-sleeved shirt, long pants, socks and chemical-resistant footwear.

Applying by groundboom and/or airblast:

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 coveralls over a long-sleeved shirt, long pants, socks and chemical-resistant footwear.

Applying by handheld equipment:

Wear chemical resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, chemical-resistant footwear 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. Wear eye and head protection when applying above waist height, including overhead. 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.

Applying by manually-pressurized handwand or backpack (Douglas fir (seed tree), Sitka spruce (seed tree), spruce (seed tree and woodland)):

Wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear 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. Wear eye and head protection when applying above waist height, including overhead.

DO NOT apply using mechanically-pressurized handgun equipment. Only for use with manually-pressurized hand wands or backpack sprayers.

Applying by right-of-way sprayer:

Wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear, protective eyewear (goggles or 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. Wear head protection when applying above waist height, including overhead.

Applying by soil drench, soil injection or chemigation:

Wear chemical resistant coveralls over a long-sleeved shirt, long pants chemical-resistant gloves, socks, chemical-resistant footwear 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.

Product Specific Precautions: If you have questions, call the manufacturer at 1-800-331-3148 or obtain other technical advice from the distributor or your provincial agriculture representative. Application of this specific product must meet and/or conform to the following: Volume: Apply the recommended rate in a minimum of spray volume of 30 litres per hectare unless otherwise stated.

TANK MIXES:

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact FMC of Canada Limited at 1-833-362-7722 for information before applying any tank mix that is not specifically recommended on this label.

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

1. CYGON 480 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 pest on crops, 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.
4. DO NOT USE on ornamental plants not listed. While CYGON 480 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 Moraine Honeylocust
 or other ORNAMENTALS not listed in this pamphlet.
7. There has been no report of damage by CYGON 480 SYSTEMIC INSECTICIDE to any of the common evergreen species grown in Canada provided recommended rates have been followed.
8. Forest Pest Control - birds and other wildlife in treated areas may be harmed.
9. Do not apply foliar sprays during the heat of the day or when temperatures are exceedingly high.

NOT FOR APPLICATION TO VEGETABLE CROPS BY AIR, EXCEPT FOR PEAS

Vegetable Crops*	Insect Controlled	Rate of CYGON 480 SYSTEMIC INSECTICIDE Per		REMARKS
		10 litres of water	Hectare	
Asparagus	Asparagus aphid	35 mL	2.3L	Ground application only. Do not apply during the crop bloom period or during the 5-day period before the crop blooms. For mature asparagus, applications can be made post-harvest only, until plant defoliation. For immature asparagus: begin applications mid-May.

				<p>Apply by boom or field sprayer using 675 L of water per hectare. For immature asparagus; DO NOT harvest for feed or food.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 7</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Beans	Aphids, bean beetles, leafhoppers, leaf miners, lygus bugs, mites, tarnished plant bugs	7-10 mL	0.7 - 1 L	<p>Do not feed or allow livestock to graze treated forage. Do not apply within 7 days of harvest.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 14</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. Avoid application during the crop blooming period. If applications must be made during the crop blooming</p>

				<p>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.</p>
Soybeans	Spider mites	10 mL	1 L	<p>Do not feed or allow livestock to graze treated forage. Do not apply within 30 days of harvest.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 7</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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.</p>
Cole Crops: Broccoli, Brussels sprouts, Cauliflower	Aphids	7 - 10 mL	0.7 - 1 L	<p>Required interval before harvest: Brussels sprouts - 21 days Broccoli, Cauliflower - 7 days</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 7</p>

				<p>Restricted Entry Interval (REI) – 5 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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.</p>
Chinese Broccoli, Bok Choi, Chicory	Aphids	-	0.6 - 1 L	<p>Pre-harvest interval 7 days; apply when aphids are present; ground application to foliage.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 7</p> <p>Restricted Entry Interval (REI) – 4 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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</p>

				during the crop blooming period.
Eggplant	Tarnished Plant Bug	-	500 - 700 mL	<p>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. Do not apply within 7 days of harvest.</p> <p>Max Number of Applications per Year – 2 Minimum Application Interval (Days) – 7</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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.</p>
Leafy Vegetables: Beet greens, Turnip greens, Kale, Lettuce**, Swiss chard	Aphids, leafhoppers	7 mL	700 mL	<p>**Do not use on Head Lettuce.</p> <p>Max Number of Applications per Year – 2 Minimum Application Interval (Days) – 7 Minimum 14-day PHI (Pre-Harvest Interval)</p>

				<p>Restricted Entry Interval (REI) – 3 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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.</p>
Peas (field or canning)	Aphids	2.5 – 3.6 mL	275 - 380 mL	<p>May be applied by air or ground equipment. Do not feed or allow livestock to graze treated vines within 21 days after application. Do not apply within 3 days of harvest.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 14</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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</p>

				managed bees for pollination services, DO NOT apply during the crop blooming period.
Peppers	Aphids, maggots	7 – 10 mL	0.7 - 1 L	<p>Consult local agricultural authorities for proper timing. Do not apply within 7 days of harvest.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 7</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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.</p>
Potatoes, Tomatoes (field)	Aphids, leafhoppers	5 – 9 mL	0.55 - 1 L	<p>Consult local agricultural authorities for proper timing. Do not apply within 7 days of harvest.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 7</p> <p>Restricted Entry Interval (REI) – 12 hours</p>

				<p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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.</p>
<p>* NOTE: For each of the vegetable crops, apply CYGON 480 SYSTEMIC INSECTICIDE in sufficient water for good coverage. Repeat applications as necessary, noting that label directions concerning required interval before harvest must be observed</p> <p>* NOTE: For each of the vegetable crops: Apply at the recommended rate; do not exceed a maximum spray volume of 1000 L per hectare unless otherwise stated.</p>				

Field Crops	Insects Controlled	Rate of CYGON 480 SYSTEMIC INSECTICIDE / Ha	REMARKS**
Alfalfa	Aphids, Leafhoppers, Reduction of Alfalfa Weevil Larvae,, Lygus bug	425 mL	<p>Use a water volume of at least 200 L/ha with ground equipment.</p> <p>Do not graze or harvest for forage within 10 days after treatment or when using a rate of 850 mL or higher: Do not graze or harvest for forage within 28 days after treatment.</p> <p>Do not apply more than once per season. Ground or Aerial Application.</p>
	Blotch leaf miners	550 mL	
	Grasshoppers - nymphs	550 mL	
	Grasshoppers - adults	850 - 900 mL	
Alfalfa (seed production)	Lygus bug, plant bugs	1.1 L	<p>Restricted Entry Interval (REI) – 12</p>

			<p>hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Canary grass (seed production)	Aphids	500 mL	<p>Apply when more than 50 aphids per canary seed head between heading and the soft dough stage. Do not harvest within 21 days after application. Ground or Aerial Application.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 30</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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.</p>
Canola (rape)	Aphids, leafhoppers, grasshoppers	850 - 900 mL	<p>Repeat application only when necessary and do not treat within 21 days of harvest. Ground or Aerial Application.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval</p>

			<p>(Days) – 7</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
<p>Forage crops (grasses, hay, clover) (except alfalfa)</p>	<p>Lygus Bug, Plant Bugs</p>	<p>425 mL</p>	<p>Do not graze or harvest for forage within 2 days after treatment.</p>
	<p>Grasshoppers - low infestations</p>	<p>425 mL</p>	<p>Do not graze or harvest for forage within 2 days after treatment</p>
	<p>nymphs</p>	<p>550 mL</p>	<p>Do not graze or harvest for forage within 2 days after treatment</p>
	<p>adults</p>	<p>850 mL - 1L</p>	<p>Do not graze or harvest for forage within 28 days after treatment. Ground or Aerial Application.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 7</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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</p>

			services, DO NOT apply during the crop blooming period.
Safflower	Grasshoppers (nymphs, adults)	550 mL - 1 L	<p>Apply when damage is apparent and more than 15 grasshoppers per square meter are found in the crop. Repeat only when necessary. Use sufficient water for good coverage using ground or aerial application. Do not apply within 21 days of harvest.</p> <p>Max Number of Applications per Year – 2 Minimum Application Interval (Days) – 7</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Sweet Clover, Red Clover, Alsike Clover	Sweet Clover Weevil	850 mL - 1.1 L	<p>Do not graze or harvest for forage within 28 days after treatment. Ground or Aerial Application.</p> <p>Max Number of Applications per Year – 2 Minimum Application Interval (Days) – 7</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply</p>

			during the crop blooming period or during the 5-day period before the crop blooms.
Pastures, Wasteland	Grasshoppers nymphs adults	550 mL 850 mL - 1L	<p>Do not graze or harvest for forage within 2 days after treatment. Use high rate for adult grasshopper control on wasteland. Do not graze or harvest for forage within 28 days after treatment.</p> <p>Max Number of Applications per Year – 2 Minimum Application Interval (Days) – 7</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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.</p>
Wheat	Orange Wheat Blossom Midge Say's stinkbug	<p>1 L If midge population persists at 3 days apply a second treatment</p> <p>Use a water volume of at least 100 L/ha with ground equipment and 50 L/ha by air. Higher volume will provide more</p>	<p>If adult midges are present (1 midge/4-5 heat heads), sprays should be applied when 25% of the wheat head has fully emerged from the boot but before flowering has begun. At this stage, wheat first becomes susceptible to attack by the egg-laying females. Applications should be made in the late afternoon or evening when temperatures exceed 15°C and the wind speed is less than 10 km/h. High volume sprays will improve penetration of the crop. Proper timing of application is essential for control.</p>

		thorough coverage	<p>DO NOT apply to areas where bees are actively foraging or near apiaries as product is toxic to bees.</p> <p>Consult provincial authorities for further information concerning rates and time of application. Ground or Aerial Application.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 7</p> <p>Minimum 35-day PHI (Pre-Harvest Interval) and 14-day PGI (Pre-Grazing Interval)</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p>
Wheat, Oats, Barley	Thrips Aphids	1 L 425 mL	<p>Ground or Aerial Application: use sufficient water to obtain good coverage (usually 110 - 275 litres/ha). (Russian Wheat Aphid - suppression only)</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 7</p> <p>Minimum 35-day PHI (Pre-Harvest Interval) and 14-day PGI (Pre-Grazing Interval)</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p>

Flax	Potato Aphids	427 mL	<p>One application per season; apply from late flowering to early green bole stage in sufficient water to provide good coverage; allow a preharvest interval of 21 days; may be applied by either ground or aerial methods.</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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.</p>
------	---------------	--------	--

**** NOTE:** For each of the Field Crops: Apply at the recommended rate; do not exceed a maximum spray volume of 1000 L per hectare unless otherwise stated.

CAUTIONS: Remove cattle prior to spraying. **** NOTE:** Use sufficient water for good coverage when utilizing ground or aerial application equipment. This formulation is not suited to application in oil.

DO NOT APPLY TO FRUIT AND NUT CROPS BY AIR

Fruit & Nut Crops	Insects Controlled	Rate of CYGON 480 SYSTEMIC INSECTICIDE Per			REMARKS**
		10 litres water	1000 litres water	Hectare	
Pears	Aphids, Mites, Pear Psyllas	10-12.5mL		1-1.25L	<p>Apply when insects first appear, using sufficient water for good coverage.</p> <p>Apply at the recommended rate; do not exceed a maximum spray volume of 3000 L per hectare unless otherwise stated.</p>
	Tarnished Plant Bugs	6.25 mL		625 mL	

					<p>Maximum rate is 1.44 kg a.i./ha (or max of 3 L of product per hectare)</p> <p><u>Apply at pre-bloom.</u> Minimum 28-day PHI (Pre-Harvest Interval)</p> <p>Max Number of Applications per Year – 2 Minimum Application Interval (Days) – 10</p> <p><u>Restricted Entry Intervals (REI):</u> Thinning – 28 days Hand-line irrigation – 17 days All other activities – 1 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Blueberry (Lowbush)	Blueberry Maggot			580-830 mL (lowbush)	<p>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. Apply a maximum of two applications per season. Date of first application should usually occur between July 5 and 15, depending on area and season. Apply second spray in 10-12 days if needed.</p> <p>Use an air-blast orchard sprayer to apply CYGON</p>
(Highbush)					

				830 mL (highbush)	<p>480 SYSTEMIC INSECTICIDE. Minimum 21-day PHI (Pre-Harvest Interval)</p> <p><u>Restricted Entry Intervals (REI) – 12 hours</u></p> <p>Weather conditions should be checked frequently (every 15 minutes) during application of CYGON 480 SYSTEMIC INSECTICIDE by air-blast sprayer 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> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Filberts, Hazelnuts	Aphids			5L	<p>One application per season; apply when aphids appear; PHI 45 days; primarily for use on young plants.</p> <p>Apply at the recommended rate; do not exceed a maximum spray volume of 1000 L per hectare unless otherwise stated.</p>

					<p><u>Restricted Entry Intervals (REI):</u> Thinning – 34 days Hand-line irrigation – 21 days All other activities – 5 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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.</p>
Peaches (non-bearing)	Tarnished Plant Bugs	5 mL	500 mL	1.7L	<p>Spray when insects first appear and repeat as necessary using sufficient water for good coverage.</p> <p>Apply at the recommended rate; do not exceed a maximum spray volume of 3000 L per hectare unless otherwise stated.</p> <p>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>
	Aphids, Mites	10-15 mL	1-1.5 L		

					<p>Max Number of Applications per Year – 2 Minimum Application Interval (Days) – 10 Minimum 40-day PHI (Pre-Harvest Interval)</p> <p><u>Restricted Entry Intervals (REI):</u> Thinning – 32 days Hand-line irrigation – 20 days All other activities – 3 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Strawberries (bearing)	Tarnished Plant Bugs	12.5 mL	1.25 L	2.75 L	<p>Apply first spray when first blooms appear and the second application 10 to 12 days later if needed. Do not spray within 7 days of harvest.</p> <p>Apply at the recommended rate; do not exceed a maximum spray volume of 1000 L per hectare unless otherwise stated.</p> <p>Max Number of Applications per Year – 2 Minimum Application Interval (Days) – 10</p> <p>Restricted Entry Interval (REI) – 2 days</p>

					<p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>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.</p>
Strawberries (bearing, non-bearing)	Aphids, Mites	10 mL	1 L	2.25 L	<p>Spray when insects first appear and repeat as necessary using sufficient water for good coverage. Do not spray within 7 days of harvest</p> <p>Apply at the recommended rate; do not exceed a maximum spray volume of 1000 L per hectare unless otherwise stated.</p> <p>Max Number of Applications per Year – 2 Minimum Application Interval (Days) – 10</p> <p>Restricted Entry Interval (REI) – 2 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p>

					<p>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.</p>
Sweet Cherries	Black and Western Cherry Fruit Fly Maggots	5 mL	500 mL	2.25 L	<p>Apply no later than 6 days after the first adult fly has been trapped. Apply once only.</p> <p>Apply at the recommended rate; do not exceed a maximum spray volume of 3000 L per hectare unless otherwise stated.</p> <p>Do not spray within 21 days of harvest.</p> <p><u>Restricted Entry Intervals (REI):</u> Thinning – 20 days Hand-line irrigation – 9 days All other activities – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Sour Cherries	Black and Western	5 mL	500 mL	2.25 L	<p>Apply no later than 6 days after the first adult fly has</p>

	Cherry Fruit Fly Maggots				<p>been trapped and repeat in 14 days if required.</p> <p>Apply at the recommended rate; do not exceed a maximum spray volume of 3000 L per hectare unless otherwise stated.</p> <p>Do not spray within 21 days of harvest.</p> <p>Max Number of Applications per Year – 2</p> <p><u>Restricted Entry Intervals (REI):</u> Thinning – 20 days Hand-line irrigation – 9 days All other activities – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
--	--------------------------------	--	--	--	--

Ornamental Shrubs & Trees (outdoor only)	Insects Controlled	<u>RATE of CYGON 480 SYSTEMIC INSECTICIDE Per</u>		Remarks*
		10 litres water	1,000 litres water	
Arborvitae	Aphids, bagworms, mites	20 mL	2 L	Max Number of Applications per Year – 2 Minimum Application Interval

				<p>(Days) – 14</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p>
Birch	Aphids, leaf miners	5 mL	500 mL	<p><u>Foliar spray:</u> For leaf miners, apply when leaves are expanded (about mid-May); repeat the last week in June.</p> <p><u>Soil drench:</u> For full-season control, CYGON 480 SYSTEMIC INSECTICIDE may be used as a soil drench once in early May when the leaves start to open. Apply CYGON 480 SYSTEMIC INSECTICIDE undiluted at a rate of 11mL per cm of stem basal diameter (cumulative total of all stems) evenly into small, shallow holes made with a sharp instrument at the dripline of the tree or clump. Close the holes with soil. Drench thoroughly with water immediately so as to saturate the root system. One soil drench treatment in May should give control of birch leafminers for the complete season. DO NOT make more than 1 soil drench treatment per season. Soil drenches may not be effective on newly transplanted birches where the root system is not well established. Some hybrid varieties (e.g. cutleaf and silver birch) may be damaged by excessive amounts of CYGON 480 SYSTEMIC INSECTICIDE. Therefore, apply no more than the recommended dosage.</p> <p>Restricted Entry Interval (REI) – 12 hours</p>

				<p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Boxwood	Mites, leaf miners, mealy bugs	10 mL	1 L	<p>For leaf miners, apply in the spring when leaf miners flies first appear or in early summer for control of larvae in the infested leaves.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 14</p> <p><u>Restricted Entry Intervals (REI):</u> Thinning – 7 days All other activities – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Cedar	Mites, leaf miners	20 mL	2 L	<p>For leaf miners apply in early May or late August.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 14</p> <p><u>Restricted Entry Intervals (REI):</u> Thinning – 18 days Hand-Line Irrigation – 3 days All other activities – 12 hours</p>

				<p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Douglas-fir (seed tree)	<p><i>Cone insects:</i> cone or gall midges, cone moths, seed chalcids, scale midges</p>	<p>2 L per 100 litres of water. Maximum rate 20 L of product (= 9.6 kg a.i.) per hectare.</p>		<p>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.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 10</p> <p><u>Restricted Entry Intervals (REI):</u> Seed cone harvesting – 48 days Scouting – 5 days Grading, animal control, baiting – 1 day</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p>
Larch	<p>Cone maggots, seed wasps</p>	50 mL	5 L	<p>One application per season; apply within 3 weeks after pollination; sprayed to run-off on foliage; ground hydraulic sprayer or mist sprayer.</p> <p>Restricted Entry Interval (REI) – 1 day</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions</p>

				<p>section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Holly (English, American)	Mites, soft scales, holly leaf miner	10 mL	1 L	<p>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.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 14</p> <p>Restricted Entry Interval (REI) – 12 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Juniper	Aphids, bagworms, midges, mites	20 mL	2 L	<p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 14</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p>
Lilac (<i>Syringa spp</i>)	Leaf miners	15 mL	1.25L	<p>Apply 2 sprays 6 weeks apart. Applications should be made as soon as any signs of the leaf miners</p>

				<p>appear or first application should be started in early June.</p> <p>Max Number of Applications per Year – 2</p> <p>Restricted Entry Interval (REI) – 15 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Oak	Golden oak scales	20 mL	2 L	<p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 14</p> <p><u>Restricted Entry Intervals (REI):</u> Thinning – 18 days Hand-Line Irrigation – 3 days All other activities – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p> <p>TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Pine (mugho, red, Scots)	Red and black-headed pine sawfly larvae	10 mL 20 mL	1 L 2 L	<p>For pine shoot moths apply in early spring and again in mid-June, thoroughly wetting branch tips.</p> <p>Max Number of Applications per</p>

	<p>Aphids, bagworms, European pine shoot moths, Nantucket pine tip moths, Zimmerman pine moths</p>			<p>Year – 2</p> <p>Minimum Application Interval (Days) – 14</p> <p><u>Restricted Entry Intervals (REI):</u> Thinning – 18 days Hand-Line Irrigation – 3 days All other activities – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p>
<p>Spruce (seed tree and woodland use)</p>	<p>Seed and cone insects</p>		<p>10.4 - 20.8 L per 1000 L water</p> <p>Maximum rate 20.8 L of product (10 kg a.i) per hectare</p>	<p>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.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 10</p> <p><u>Restricted Entry Intervals (REI):</u> Seed Cone harvesting – 49 days Scouting – 5 days Hand pruning, staking, tying – 27 days Grading, animal control, baiting – 2 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p>

Sitka spruce(seed tree)	Sitka spruce weevils	208mL	<p>20.8 L per 1000 litres of water</p> <p>Maximum rate 20.8 L of product (= 10 kg a.i.) per hectare</p>	<p>Thoroughly spray the terminal growth to the point of runoff at the time of egg laying (usually during the first half of May).</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 10</p> <p><u>Restricted Entry Intervals (REI):</u> Seed Cone harvesting – 49 days Scouting – 5 days Hand pruning, staking, tying – 27 days Grading, animal control, baiting – 2 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p>
Taxus (yew)	Mites, Fletcher scales, mealy bugs	20 mL	2 L	<p>For Fletcher scales, spray at the end of June and again 14 days later when crawlers are moving.</p> <p>Max Number of Applications per Year – 2</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.</p>

* Apply at the recommended rate; do not exceed a maximum spray volume of 1000 L per hectare unless otherwise stated.

THE USES LISTED BELOW ARE FOLIAR SPRAYS UNLESS OTHERWISE INDICATED: (OUTDOOR PLANTS ONLY).

Flowering Plants	Insects Controlled	Rate of CYGON 480 SYSTEMIC INSECTICIDE Per		Remarks*
		10 litres water	1,000 litres water	

Azaleas	Lace bugs, leaf miners, mites, white flies	10 mL	1 L	<p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 14</p> <p>Restricted Entry Interval (REI) – 2 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Camellias	Aphids, mites, camellia scales	10 mL	1 L	<p><u>Foliar spray:</u> Apply 2 sprays 6 weeks apart during the first year. In subsequent years make an application soon after first growth begins in the spring. <u>Soil drench:</u> Apply CYGON 480 SYSTEMIC INSECTICIDE as a soil drench around the base of plants in early spring at the rate of 60 mL in 10 litres water per plant up to 2 metres tall. Increase the rate proportionately for larger plants.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 10</p> <p>Restricted Entry Interval (REI) – 2 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>

Day lilies	Aphids, thrips	20 mL	2 L	<p>Max Number of Applications per Year – 1</p> <p>Restricted Entry Interval (REI) – 7 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Euonymus	Aphids, scales	20 mL	2 L	<p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 14</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Gardenias	White flies	10 mL	1 L	<p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 14</p> <p>Restricted Entry Interval (REI) – 12 hours</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>

Gerberas	Thrips	10 mL	1 L	<p>Max Number of Applications per Year – 1</p> <p>Restricted Entry Interval (REI) – 2 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Gladioli	Aphids, thrips	10 mL	1 L	<p>Max Number of Applications per Year – 1</p> <p>Restricted Entry Interval (REI) – 2 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Irises	Aphids, iris borers, thrips	20 mL	2 L	<p>For borer control, spray when new leaves are 12 - 15 cm tall.</p> <p>Max Number of Applications per Year – 1</p> <p>Restricted Entry Interval (REI) – 7 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>
Poinsettias (outdoor plants)	Aphids, white flies, mites, mealy bugs	10 mL	1 L	<p>Max Number of Applications per Year – 1</p> <p>Restricted Entry Interval (REI) – 2 days</p>

				To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.
Roses	Aphids, leafhoppers, mites, thrips	10 mL	1 L	<p>Spray during growing season.</p> <p>Max Number of Applications per Year – 2</p> <p>Minimum Application Interval (Days) – 28</p> <p>Restricted Entry Interval (REI) – 2 days</p> <p>To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. TOXIC to bees. DO NOT apply during the crop blooming period or during the 5-day period before the crop blooms.</p>

*Apply at the recommended rate; do not exceed a maximum spray volume of 1000 L per hectare unless otherwise stated.

READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than FMC of Canada Ltd. under the User Requested Minor Use Label Expansion program. For these uses, FMC of Canada Ltd. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

Field Crops	Insects Controlled	Rate of CYGON 480 SYSTEMIC INSECTICIDE / 1000 L water	REMARKS**

Highbush Blueberry- <i>Vaccinium corymbosum</i>	Spotted Wing Drosophila (SWD) <i>Drosophila suzukii</i>	830 mL	<p>Apply post-harvest only, to control spotted wing Drosophila (adults and larvae in fruit) that may otherwise infest adjacent crops. Timing varies, depending on variety of highbush blueberry.</p> <p>Foliar application only, using conventional ground application equipment. Use sufficient water volume to ensure thorough coverage, to a maximum of 1000 L/ha.</p> <p>Maximum 2 applications per year with a reapplication interval of 15 days. Restricted Entry Interval (REI) – 12 days for hand-harvesting, 12 hours for all other activities</p>
--	--	--------	---

SPRAY BUFFER ZONES:

Spot treatments using handheld equipment DO NOT require a buffer zone. Use of soil drench or soil incorporation do not require a spray buffer zone.

The spray buffer zones specified in Table 1 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.

Table 1 Buffer zones

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of :			
		Freshwater habitat of Depth:		Estuarine/Marine habitats of Depth:	
		Less than 1m	Greater than 1m	Less than 1m	Greater than 1m
Field sprayer*	Wheat, forage crops (grasses, hay, clover), clover (sweet, red, alsike), safflower	2	1	1	1
	Azaleas, camellias, gardenias, gerberas, gladioli, poinsettias, roses	1	1	1	1
	Canary grass (seed production), flax	1	0	1	0
	Strawberries	3	2	3	1
	Beans, eggplant, leafy vegetables (beet greens, turnip greens, kale, leaf lettuce, Swiss chard)	1	1	1	1
	Broccoli, cauliflower	2	1	2	1
	Brussels sprouts, Chinese	2	1	1	1

2023-5459

2023-10-13

Label correction made 2024-05-27

	broccoli, bok choy, chicory, peppers					
	Peas (field or canning)	1	0	1	0	
	Asparagus	3	1	2	1	
	Potatoes, tomatoes	2	1	1	1	
	Day lilies, Euonymus, irises	2	1	2	1	
	Arbor vitae, juniper, lilac (<i>Syringa</i> spp.), oak, pine (Mugho, red, Scots), Taxus (yew), cedar	2	1	2	1	
	Sitka spruce (seed tree)	15	5	10	5	
	Birch	1	0	1	0	
	Boxwood	1	1	1	1	
	Douglas-fir (seed tree), spruce (seed tree and woodland),	10	5	10	5	
	Larch	3	2	4	2	
	Holly (English, American)	1	1	1	1	
Airblast	Arbor vitae, cedar, juniper, oak, pine (Mugho, red, Scots), Taxus (yew)	Late growth stage	4	2	4	2
	Birch	Late growth stage	1	0	1	0
	Boxwood, Holly (English, American)	Late growth stage	2	1	2	1
	Douglas-fir (seed tree),	Late growth stage	25	15	20	15
	Larch	Late growth stage	5	3	10	4
	Lilac (<i>Syringa</i> spp.)	Late growth stage	3	1	3	1
	Spruce (seed tree and woodland)	Late growth stage	20	10	25	15
	Sitka spruce (seed tree)	Late growth stage	25	15	25	15
	Pears	Early growth stage	15	5	15	5
		Late growth stage	10	3	5	3
	Filberts, hazelnuts	Early growth stage	15	5	20	10
		Late growth stage	5	3	10	4
	Peaches	Early growth stage	20	10	15	5
		Late growth stage	10	4	10	4
	Cherries (sour, sweet)	Early growth stage	10	4	10	3
		Late growth	5	2	4	2

2023-5459

2023-10-13

Label correction made 2024-05-27

		stage				
	Blueberry (lowbush and highbush)	Early growth stage	4	1	3	1
		Late growth stage	2	1	2	1
Aerial	Flax, canary grass (seed production), peas (field or canning)	Fixed wing	1	0	1	0
		Rotary wing	1	0	1	0
	Canola (rape)	Fixed wing	5	1	2	1
		Rotary wing	3	1	1	1
	Wheat, oats, barley, forage crops (grasses, hay, clover), clover, safflower	Fixed wing	10	1	5	1
		Rotary wing	5	1	5	1
	Alfalfa (forage and seed production), clover (sweet, red, alsike)	Fixed wing	10	1	5	1
		Rotary wing	5	1	3	1
Hemlock, spruce	Fixed wing	90	0	150	15	
	Rotary wing	55	0	90	1	

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

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 Pesticides portion of the Canada.ca website .