

Water Soluble Bag Label

**IMIDAN® 50-WP INSTAPAK®
Agricultural Insecticide
WETTABLE POWDER IN WATER SOLUBLE SACHETS**



KEEP OUT OF REACH OF CHILDREN

ACTIVE INGREDIENT: Phosmet 50%

Net Contents: 1 kg

**WARNING: Any boron and free chlorine in the sprayer will
cause incomplete dissolution of water soluble film.**

Cancellation Date for Cancelled Use with an Extended Phase-Out Period

Crop	Last Date of Use
Outdoor ornamentals grown for cut flowers	30 October 2024

GROUP

1 B

INSECTICIDE

IMIDAN® 50-WP INSTAPAK®
AGRICULTURAL INSECTICIDE
WETTABLE POWDER IN WATER SOLUBLE SACHETS

COMMERCIAL



READ THE LABEL AND ATTACHED BROCHURE BEFORE USING
KEEP OUT OF REACH OF CHILDREN

DO NOT REMOVE SACHETS FROM BAG UNTIL NEEDED FOR APPLICATION

KEEP SACHET DRY AND DO NOT ALLOW SACHET TO CONTACT ANY MOIST
SURFACE PRIOR TO ADDING TO SPRAY TANK

DO NOT SELL WATER SOLUBLE SACHETS SEPARATELY.

**KEEP WATER SOLUBLE SACHETS IN THE PROTECTIVE
CONTAINER AND STORE IN A COOL, DRY PLACE**

ACTIVE INGREDIENT: Phosmet 50%

REGISTRATION NO. 23006 PEST CONTROL PRODUCTS ACT

Cancellation Date for Cancelled Use with an Extended Phase-Out Period

Crop	Last Date of Use
Outdoor ornamentals grown for cut flowers	30 October 2024

Net Contents 2 kg
(2 x 1 kg water-soluble sachets)

Gowan Company, L.L.C.
P.O. Box 5569
Yuma, AZ 85366-5569
1-800-960-4318

PRECAUTIONS

HUMAN HEALTH PRECAUTIONS

Mixing, loading, clean-up and repair: Workers must wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, clean-up and repair.

Groundboom: Workers must wear coveralls over a long-sleeved shirt, long pants, socks and chemical-resistant footwear during application. Chemical-resistant gloves are not required to be worn during application but are required for clean-up, calibration and repair.

If handling more than 280kg of Imidan 50-WP per person per day, also use a closed cab that provides both a physical barrier and respiratory protection (i.e 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. A respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides and chemical-resistant gloves are not required to be worn inside the closed cab, but have them ready for leaving the cab during calibration, repair or cleaning of equipment.

Airblast: Workers must wear chemical-resistant coveralls over long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemically-resistant footwear during application. Wear chemical-resistant headgear during open cab airblast application. Chemical-resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. In addition, wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides.

Backpack and manually pressurized handwand: Workers must wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes during application.

Mechanically Pressurized Handgun: Workers must wear chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides.

When applying using mechanically pressurized handgun, DO NOT handle more than 6kg of Imidan 50-WP per person per day. These restrictions are in place to minimize exposure to individual applicators. Application may need to be performed over multiple days or using multiple applicators.

For handheld application when applying above waist height, including overhead, chemical-resistant headgear must be worn. Chemical-resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection.

DO NOT apply by air

DO NOT apply using handheld mistblower/airblast.

DO NOT apply in residential areas. Residential areas are defined as any use site where bystanders including children could be exposed during or after application. This includes in and

around homes, schools, public buildings or any other areas where the general public including children could be exposed.

DO NOT use on ornamentals grown for cut flowers AFTER October 30, 2024.

DO NOT use in greenhouses.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

A 30-day plant-back interval should be observed for all unlabeled crops.

POST APPLICATION ACTIVITIES

DO NOT enter or allow worker entry into treated areas to perform post-application activities during the intervals specified in Table 1 and Table 2.

Some of the activities in the REI table may not be routinely conducted in every farm for every crop. The REIs specified for an activity must be followed only if that activity is being performed.

Table 1 Restricted-Entry Intervals (REIs) and Pre-Harvest Intervals (PHIs) for Phosmet

Crop	Postapplication Activity	REI and/or PHI (days)
Apple, pear	Hand harvesting	22
	Mechanical harvesting	14
	Hand pruning, scouting, training	9
	All other activities (hand weeding, propping, orchard maintenance)	12 hours
Peach, plum	Hand harvesting	17
	Mechanical harvesting	14
	Hand pruning, scouting, training	4
	All other activities (hand weeding, propping, orchard maintenance)	12 hours
Cherry (sour)	Hand harvesting	17
	Mechanical harvesting	7
	Hand pruning, scouting, training	4
	All other activities (hand weeding, propping, orchard maintenance)	12 hours
Blueberry (high bush)	Hand set/hand line irrigation related activities involving foliar contact	20
	Hand harvesting	17
	Mechanical harvesting	15
	Scouting, hand pruning, hand weeding, tying, training, frost control, bird control	6
	All other activities	12 hours
Blueberry (low bush)	Hand set/hand line irrigation related activities involving foliar contact	20
	Harvesting	15
	Scouting	4
	All other activities	12 hours
Carrot	Harvesting	40
	All other activities	12 hours
Celery	Harvesting	40
	All other activities	12 hours
Cranberry	Harvesting	30
	Scouting	3
	All other activities	12 hours
Potato	Hand set/hand line irrigation related activities involving foliar contact	33

Crop	Postapplication Activity	REI and/or PHI (days)
	Roguing	26
	Harvesting	7
	Scouting	2
	All other activities	0.5
Outdoor Ornamentals, not grown for cut-flowers	Hand set/hand line irrigation related activities involving foliar contact	18
	All other activities	12 hours

REI = restricted entry interval; PHI = preharvest interval

Table 2: Interim Restricted-Entry Intervals (REIs) For Use with an Extended Phase Out Period (Outdoor Ornamentals Grown For Cut Flowers)

Crop	Postapplication Activity	REI
Outdoor Ornamentals grown for cut-flowers	Hand harvesting, disbudding, hand pruning	6 days
	All other activities	12 hours

REI = restricted entry interval

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Water-soluble sachets are contained in a protective container. Do not open sachets or allow sachets to become wet prior to adding to the spray tank. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes or on skin, or on clothing. Do not breathe spray mist. Wash all contaminated clothing with soap and hot water before reuse. To prevent contamination, store this product away from food or feed. Wear clean clothes. Avoid drift to adjoining food and forage crops.

FIRST AID

IF SWALLOWED:

Call a poison control centre or doctor **immediately** for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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 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

Phosmet is an organophosphate that is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, 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.

Consult your local POISON CONTROL CENTRE for additional information.

EMERGENCY MEDICAL NUMBER

For medical emergencies involving this product call 1-888-478-0798.

ENVIRONMENTAL PRECAUTIONS

TOXIC to birds and small wild mammals.

TOXIC to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

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 ground cover 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.canada.ca/pollinators). Follow crop specific directions for application timing.

Runoff

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application 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.

STORAGE

Store this product away from food or feed.

End-users can store this product at temperatures below 0°C provided handling is minimal. Warehouse storage and handling, and shipping must be at temperatures above 0°C. At temperatures below 0°C, soluble film packaging becomes susceptible to cracking and breakage due to handling and shipping.

Keep water-soluble sachets in its protective container and store in a cool, dry place. Do not store at temperatures above 40°C.

DISPOSAL

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.

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.

IMIDAN[®] is a registered trademark of Gowan Company LLC.
INSTAPAK[®] is a registered trademark of Gowan Company LLC.

GROUP 1 B INSECTICIDE

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COMMERCIAL**

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WETTABLE POWDER IN WATER SOLUBLE SACHETS



ACTIVE INGREDIENT

READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

DO NOT REMOVE SACHETS FROM BAG UNTIL NEEDED FOR APPLICATION

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KEEP WATER SOLUBLE SACHETS IN THE PROTECTIVE CONTAINER AND STORE IN A COOL, DRY PLACE

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REGISTRATION NO. 23006
PEST CONTROL PRODUCTS ACT

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DO NOT use in greenhouses.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

A 30-day plant-back interval should be observed for all unlabeled crops.

POST APPLICATION ACTIVITIES

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	Scouting	4
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Carrot	Harvesting	40
	All other activities	12 hours
Celery	Harvesting	40
	All other activities	12 hours
Cranberry	Harvesting	30
	Scouting	3
	All other activities	12 hours

Crop	Postapplication Activity	REI or PHI (days)
Potato	Hand set/hand line irrigation related activities involving foliar contact	33
	Roguing	26
	Harvesting	7
	Scouting	2
	All other activities	0.5
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PRECAUTIONS

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FIRST AID

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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 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:

Phosmet is an organophosphate that is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, 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.

For medical emergencies involving this product, call 1-888-478-0798.

ENVIRONMENTAL PRECAUTIONS

TOXIC to birds, small wild mammals.

TOXIC to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

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 ground cover 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.canada.ca/pollinators). Follow crop specific directions for application timing.

Runoff

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application 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.

STORAGE

Store this product away from food or feed.

End-users can store this product at temperatures below 0°C provided handling is minimal.

Warehouse storage and handling, and shipping must be at temperatures above 0°C.

At temperatures below 0°C, soluble film packaging becomes susceptible to cracking and breakage due to handling and shipping.

Keep water-soluble sachets in its protective container and store in a cool, dry place. Do not store at temperatures above 40°C. To prevent contamination, store this product away from food or feed.

SPILL CLEANUP

1. Avoid inhalation, skin and eye contact. Wear rubber gloves, boots, safety goggles and NIOSH approved respirator effective at removing phosmet.
2. Sweep up spilled material being careful not to create dust.
3. Place sweepings in a suitable waste container and label for content.
4. Generously cover the contaminated area with a common household detergent (e.g. Tide registered TM of Proctor and Gamble). Using a stiff brush, work the detergent into the spill material using sufficient water to form a slurry. Brush the slurry into cracks and crevices, and allow to stand for 2 to 3 minutes. Be careful to completely avoid skin or eye contact; do not splatter on one's self or bystanders.
5. Spread a suitable absorbent such as clay on the slurried liquid, and shovel the absorbed material into the waste container. Repeat if necessary.
6. Flush the area with water, while observing proper environmental measures.

7. Seal drum and ensure it is labelled for content. Dispose according to local regulation. See DISPOSAL statement.

DISPOSAL

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.

DIRECTIONS FOR USE

GENERAL USE PRECAUTIONS

Observe use limitation given on the label for specific crops. Regulations of Health Canada have established the maximum residue limits (MRLs) of agricultural chemicals that are permitted to remain on food crops at time of harvest. To avoid exceeding these MRLs, use only the recommended amounts and do not spray nearer to harvest than the number of days indicated for each crop, or not later than the stage indicated. Consult local agricultural authorities for additional information as the timing and number of applications needed will vary with local conditions.

DO NOT use in low-volume, gear-type spray equipment.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

Water-Soluble Packages Dissolved Directly in Spray tanks:

Water-Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs.

Handling Instructions

Follow these steps when handling pesticide products in WSPs.

1. Mix in spray tank only.
2. Handle WSP(s) in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on a minimum of coveralls, chemical-resistant gloves, chemical-resistant footwear, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested and then continue with mixing instructions.
3. Keep the WSP(s) in outer packaging until just before use.
4. Keep the WSP dry prior to adding to the spray tank.
5. Handle with dry gloves and according to the label instructions for PPE.
6. Keep WSP intact. Do not cut or puncture WSP.
7. Reseal the WSP outer packaging to protect any unused WSP(s).

Mixing Instructions

Follow the steps below when mixing this product, including if tank mixed with other pesticide products. If being tank mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank mix products.

1. If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.

2. Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
3. Stop adding water and stop any agitation.
4. Place intact/unopened WSP(s) into the tank.
5. Do not spray water from a hose or fill pipe to break or dissolve the WSP(s).
6. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
7. Dissolving the WSP(s) may take up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.
8. Stop agitation before tank lid is opened.
9. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSPs have fully dissolved and the contents have been thoroughly mixed into the solution.
10. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
11. Once the WSP have fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
12. Use the spray solution when mixing is complete.
13. Maintain agitation of the diluted pesticide mix during transport and application.
14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

CHEMIGATION:

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. Applications **MUST** be conducted **WITHOUT** the use of end guns.

To ensure the safety and effectiveness of this application, the following directions must be followed.

1. This recommendation has been developed for use with an in-ground, set sprinkler, overhead irrigation system equipped with venturi injectors. Do not apply this product through any other type of irrigation system.
2. To prevent water source contamination from back flow, the irrigation pump and the injection pump must have an interlocking electrical system.
3. For a safe and effective treatment, sprinkler heads must be staggered and located to result in a uniform and consistent application at a known flow rate.
4. Do not apply when wind speed causes non-uniform distribution and/or favours drift beyond the area intended by treatment.
5. Do not apply by chemigation if the area to be treated is within 100 metres of a residential area or park.

The treated area must be posted as follows: **WARNING – Area treated through the irrigation system with Phosmet (IMIDAN 50-WP INSTAPAK AGRICULTURAL INSECTICIDE WETTABLE POWDER)** on (indicate date of application). Workers who enter treated fields must follow the Restricted Entry Intervals indicated above.

Tank Mix:

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 Gowan Company at 1-800-960-4318 for information before applying any tank mix that is not specifically recommended on this label.

COMPATIBILITY

Do not combine wettable powders with oil or other emulsifiable liquids in the same spray tank unless previous use of the materials combined has proven them to be physically compatible. This product is incompatible with alkaline materials such as Bordeaux and lime.

WARNING: Ensure that the spray tank, pump and lines are clean and do not contain boron or any substances releasing free chlorine. Any boron or free chlorine will cause incomplete dissolution of the water-soluble film which will result in plugging of the sprayer pump, lines or screens

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.

Spray Buffer zones:

DO NOT apply using aerial application.

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

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:			
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:	
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Blueberry (lowbush) Carrot Celery Potato	35	10	20	10
	Ornamental Shade trees Herbaceous plants Woody shrubs	20	5	15	5
Overhead irrigation system/Chemigation sprayer	Cranberry	35	10	20	10

Airblast	Apple (post thinning)	Late growth stage	40	25	35	25
	Pear (post thinning)					
	Plum (post thinning)					
	Peach (post thinning)					
	Cherry (sour)					
	Blueberry (highbush)	Early growth stage	45	30	40	30
		Late growth stage	35	20	30	20
	Ornamental Shade trees	Early growth stage	40	20	35	25
Herbaceous plants	Late growth stage	30	15	25	15	
Woody shrubs						

When tank mixes are permitted, 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 Pest Management Regulatory Agency web site.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that IMIDAN 50-WP INSTAPAK AGRICULTURAL INSECTICIDE WETTABLE POWDER contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to this product 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 this product 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 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 Gowan Company at 1-800-960-4318 or at www.gowanco.com.

APPLICATION RATES

NOTE: *Unless water volume is specified, use sufficient water to provide thorough coverage.*

Where timing of spray is not specified, consult local agricultural authorities regarding proper time of spray applications.

Crop	Pest	Use Rate kg per hectare	Comments
APPLES	Codling moth, redbanded leaf roller, plum curculio, apple maggot, apple aphid, spotted tentiform leafminer, obliquebanded leafroller*, green fruitworm, tarnished plant bug, San Jose scale, and Japanese beetle. Suppresses European red mite and twospotted spider mite	3.75 kg of product/ha	Use sufficient water to provide thorough coverage. *Obliquebanded leafroller: Begin sprays within 7-10 days after first moths are trapped. Do not make a second application within 14 days. Other pests: Consult local agricultural authorities regarding the proper time of spray applications.
	<ul style="list-style-type: none"> • Toxic to bees. DO NOT apply during the crop blooming period. • Do not apply more than 2 applications per season. • Minimum re-application interval is 14 days. • All hand thinning activities must be completed prior to application 		
Crop	Pest	Use Rate kg per hectare	Comments
BLUEBERRIES	Blueberry Maggot	2.25 kg of product in 1000 litres of water per hectare	Apply between July 15-30.
	<ul style="list-style-type: none"> • Toxic to bees. DO NOT apply during the crop blooming period. • Maximum of one application per season. 		
	Blueberry Spanworm	2.24 kg of product in 1000 litres of water per hectare	Apply from mid-April to mid-June, when insects reach damaging levels for both sprouting and fruiting field sections.
	<ul style="list-style-type: none"> • Toxic to bees. DO NOT apply during the crop blooming period. • Maximum of one application per season. 		

CARROTS	Carrot Weevil	2.25 kg of product per hectare	Apply at the 2 to 4 leaf stage in sufficient water to provide good coverage.
	<ul style="list-style-type: none"> Do not apply more than once per season. 		
CELERY	Carrot Weevil	2.25 kg of product in up to 1000 litres of water per hectare	Apply to celery plants equal to or less than 25 cm tall. Consult local authorities regarding proper timing of spray applications.
	<ul style="list-style-type: none"> Do not apply more than once per season. 		

Crop	Pest	Use Rate kg per hectare	Comments
CHERRIES, SOUR (tart)	Peach twig borer, plum curculio, redbanded leaf roller, cherry fruit fly, eastern tent caterpillar, elm spanworm, gypsy moth, Japanese beetle and spring cankerworm. Suppresses European red mite and two spotted spider mite	3.75 kg of product per hectare	Apply in sufficient water to provide good coverage. Consult local agricultural authorities regarding proper timing of spray applications.
	<ul style="list-style-type: none"> Toxic to bees. DO NOT apply during the crop blooming period. Do not make more than one application per season. 		
CRANBERRIES	Blackheaded fireworm	2.2 kg of product per hectare	<p>Make one application at pre-bloom after egg hatch to control the first generation of blackheaded fireworm or post-bloom where field scouting indicates insect numbers warrant treatment. Cranberry growers in British Columbia are advised to obtain and follow the “Chemigation Guidelines for British Columbia” available from the Provincial Ministry of Agriculture, Fisheries and Food (Abbotsford).</p> <p>To minimize surface water contamination by phosmet applied on cranberries, all effluent water must be impounded and released when levels are $\leq 0.2\mu\text{g}$ a.i./L.</p>
	<ul style="list-style-type: none"> DO NOT apply this product through any other type of irrigation system. DO NOT apply when wind speed causes non-uniform distribution and/or favors drift beyond the area intended for treatment. 		

	<ul style="list-style-type: none"> • DO NOT apply by chemigation if the area to be treated is within 100 metres of a residential area or park. • Maximum of one application per season.
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Crop	Pest	Use Rate Kg per hectare	Comments
PEARS	Pear psylla, codling moth, redbanded leafroller, plum curculio, obliquebanded leafroller*, rust mite, and Japanese beetle and. Suppresses European red mite and twospotted spider mite	3.75 kg of product per hectare	Apply in sufficient water to provide good coverage. Consult local agricultural authorities regarding proper timing of spray applications. *For obliquebanded leafroller, begin sprays within 7-10 days after first moths are trapped.
	<ul style="list-style-type: none"> • Toxic to bees. DO NOT apply during the crop blooming period. • Do not make more than two applications per season. • Minimum application interval is 14 days. • All hand thinning activities must be completed prior to application. 		
PEACHES	Plum curculio, peach twig borer, oriental fruit moth, obliquebanded leafroller*, tarnished plant bug, and Japanese beetle.. Suppresses European red mite and twospotted spider mite	3.75 kg of product per hectare	Apply in sufficient water to provide good coverage. Consult local agricultural authorities regarding proper timing of spray applications. *For obliquebanded leafroller, begin sprays within 7-10 days after first moths are trapped.
	<ul style="list-style-type: none"> • Toxic to bees. DO NOT apply during the crop blooming period. • Do not make more than one application per season. • All hand thinning activities must be completed prior to application. 		
PLUMS	Plum curculio, apple maggot, redbanded leafroller and Japanese beetle. Suppresses European red mite and twospotted spider mite	3.75 kg of product per hectare	Apply in sufficient water to provide good coverage. Consult local agricultural authorities regarding proper timing of spray applications.
	<ul style="list-style-type: none"> • Toxic to bees. DO NOT apply during the crop blooming period. • Do not make more than one application per season. • All hand thinning activities must be completed prior to application. 		
Crop	Pest	Use Rate kg per hectare	Comments
POTATOES	Colorado potato beetle, potato flea beetle, potato leafhopper, potato aphid	2.25 kg of product per hectare	Apply in sufficient water to provide good coverage.

	<ul style="list-style-type: none"> • 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. • Minimum re-application interval is 7 days. • Maximum of 5 applications per season.
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NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Gowan Company under the User Requested Minor Use Label Expansion program. For these uses, Gowan Company 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.

BLUEBERRIES	Japanese Beetle (adults)	2.25 kg of product in 1000 litres of water per hectare	Apply when adult Japanese beetles are first observed
	<ul style="list-style-type: none"> • Toxic to bees. DO NOT apply during the crop blooming period. • Maximum of one application per season. 		

SHADE TREES AND ORNAMENTALS

IMIDAN 50-WP INSTAPAK AGRICULTURAL INSECTICIDE WETTABLE POWDER is recommended for use by commercial applicators on shade and ornamental trees, woody evergreens, shrubs and herbaceous plants, specified below, along thoroughfares and other localized areas to control gypsy moth, Japanese beetle, spring cankerworm, eastern tent caterpillar, elm spanworm and birch leafminer.

Crop	Pest	Use Rate kg product per hectare	Comments
Deciduous Shade and Ornamental Trees (ash, beech, oak, dogwood, willow, hickory, hawthorne, birch, elm, maple)	Birch leaf miner (birch trees only), elm spanworm, spring cankerworm, gypsy moth, Japanese beetle, eastern tent caterpillar	1.25 kg of product per 1000 litres of water	When such insects or their damage occur, spray in sufficient water to thoroughly wet all parts of the affected plants to the point of runoff. The initial application should be made for lepidopterous insects (gypsy moth, elm spanworm, spring cankerworm, eastern tent caterpillar) after most of the eggs have hatched but before heavy feeding damage is noted. Best results are obtained if application can be

			<p>delayed until the largest larvae are 13 millimetres long. A second application may be necessary on some species 14-21 days after the first.</p> <p>First generation birch leafminer application should be made in May when the leaves are about half expanded and the small blisters or mines appear noticeable. Make a second application around the first week of July for control of second-generation miners.</p> <p>Do not apply more than 3 times per season. Minimum re-application interval is 14 days. Local agricultural authorities can best advise proper timing of spray applications.</p>
Toxic to bees. DO NOT apply during the crop blooming period.			

Crop	Pest	Use Rate kg of product per hectare	Comments
<p>Woody Evergreens and Shrubs (arborvitae, azalea, boxwood, camellia, cedar, fir, hemlock, hydrangea, juniper, lilac, pine, privet, rose, spruce, yew)</p>	<p>Elm spanworm, gypsy moth, Japanese beetle</p>	<p>1.25 kg of product per 1000 litres of water</p> <p>For cut flowers use no more than 0.375 kg of product in 300 Litres of water/ha</p>	<p>When such insects or their damage occur, apply in sufficient water to thoroughly wet all parts of the affected plants to the point of runoff.</p> <p>The initial application should be made for lepidopterous insects (gypsy moth, elm spanworm) after most of the eggs have hatched but before heavy feeding damage is noted. Best results are obtained if application can be delayed until the largest larvae are 13 millimetres long. A second application may be necessary on some species 14-21 days after the first.</p> <p>Do not apply more than 3 times per season. Minimum re-application interval is 14 days.</p>

			<p>Do not apply more than one application per season to ornamentals grown for cut flowers.</p> <p>Local agricultural authorities can best advise proper timing of spray applications.</p>
<p>Toxic to bees. DO NOT apply during the crop blooming period (not applicable to pine, fir, juniper, spruce, arborvitae, hemlock, and yew).</p> <p>Up to October 30, 2024: Do not apply more than once to ornamentals grown for cut flowers Do not apply more than 300 L/ha to ornamentals grown for cut flowers After October 30, 2024 : Do Not apply to ornamentals grown for cut flowers</p>			

Crop	Pest	Use Rate kg of product per hectare	Comments
<p>Herbaceous Plants (chrysanthemum, geranium, zinnia, petunia, portulaca, four-o'clock, marigold, cosmos)</p>	<p>Elm spanworm, gypsy moth, Japanese beetle</p>	<p>1.25 kg per 1000 litres of water</p> <p>For ornamentals grown for cut flowers use no more than 0.375 kg product in 300 Litres of water/ha</p>	<p>When such insects or their damage occur, apply in sufficient water to thoroughly wet all parts of the affected plants to the point of runoff.</p> <p>The initial application should be made for lepidopterous insects (gypsy moth, elm spanworm) after most of the eggs have hatched but before heavy feeding damage is noted. Best results are obtained if application can be delayed until the largest larvae are 13 millimetres long. A second application may be necessary on some species 14-21 days after the first.</p> <p>Do not apply more than 3 times per season. Minimum re-application interval is 14 days.</p> <p>Do not apply more than one application per season to ornamentals grown for cut flowers.</p> <p>Local agricultural authorities can best advise proper timing of spray applications.</p>
<p>Toxic to bees. DO NOT apply during the crop blooming period.</p> <p>Up to October 30, 2024: Do not apply more than once to ornamentals grown for cut flowers Do not apply more than 300 L/ha to ornamentals grown for cut flowers After October 30, 2024 : Do Not apply to ornamentals grown for cut flowers</p>			

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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INSTAPAK® is a registered trademark of Gowan Company LLC.