

Imidan® 50-WP Instapak®

Agricultural Insecticide
Wettable Powder in Water Soluble Sachets

COMMERCIAL

GUARANTEE: Phosmet.....50%

DANGER



POISON

READ THE LABEL BEFORE USING

PRECAUTIONS

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

PRECAUTIONS

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. Wear protective clothing, including rubber gloves and goggles, during mixing, loading and spraying. Do not breathe spray mist. Wash all contaminated clothing with soap and hot water before reuse. Do not contaminate feed or food. Wear clean clothes. Avoid drift to adjoining food and forage crops.

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., refer to www.cropro.org/

DO NOT APPLY BY AIR

FIRST AID

Ingestion may result in poisoning.

1. Keep airways open. Use artificial respiration, if necessary.
2. If ingested and patient is conscious, induce vomiting. Do not induce vomiting if patient is unconscious or in a convulsive state.
3. Call physician or Poison Control Center.
4. Wash skin of material and vomitus.
5. Save suspected agent and vomitus, if container is available, for disposal by physician.
6. In case of contact with skin, wash immediately with soap and water.
7. If in eyes, flush with clean water.

Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

1. Induce vomiting or lavage stomach.
2. Phosmet is a cholinesterase inhibitor. Symptoms of poisoning include nausea, headache, weakness, impaired vision, sweating, tightness in the chest, convulsions.

Atropine is antidotal. 2-PAM (pralidoxime) also is antidotal when administered early and in conjunction with atropine.

Consult your local POISON CONTROL CENTRE for additional information.

EMERGENCY TELEPHONE NUMBER: All hours, 1-888-478-0798 ONLY for health and environmental information

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Keep out of any body of water. This product is toxic to bees. Do not apply when fruit or cover crops are in bloom.

NET CONTENTS: 2kg
(2 x 1 kg water-soluble sachets)

REGISTRATION NO.11144
PEST CONTROL PRODUCTS ACT

Gowan®
CANADA

Gowan Company LLC
370 S. Main Street
P.O. Box 5569
Yuma, AZ 85366-5569 U.S.A.

STORAGE

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.

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 slurred 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

1. Make the empty outer container unsuitable for further use.
2. Dispose of the empty container in accordance with provincial requirements.
3. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer or the provincial regulatory agency in case of spill, and for clean-up of spills.

NOTICE TO USER

This control product is to be used only in accordance with the directions on this label. It is an offence under the **Pest Control Products Act** to use a control product under unsafe conditions.

DIRECTIONS FOR USE GENERAL USE PRECAUTIONS

IMIDAN 50-WP INSTAPAK INSECTICIDE WETTABLE POWDER is packaged in water-soluble sachets that are to be dropped into the spray tank unopened.

Do not use in low-volume, gear-type spray equipment.

Observe use limitation given on the label for specific crops. Regulations of Health and Welfare Canada have established the amounts of agricultural chemicals that are permitted to remain on food crops at time of harvest. To avoid exceeding these residue tolerances, 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.

For the control of Blackheaded fireworm, IMIDAN 50-WP INSTAPAK INSECTICIDE WETTABLE POWDER may be applied through an irrigation system. 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).

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 ventury 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 INSECTICIDE WETTABLE POWDER) on (indicate date of application). Workers who must enter treated fields within 2 days of application should wear protective clothing.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that IMIDAN 50-WP INSTAPAK INSECTICIDE WETTABLE POWDER contains a Group 1B acaricide/insecticide. Any insect population may contain individuals naturally resistant to IMIDAN 50-WP INSTAPAK INSECTICIDE WETTABLE POWDER and other Group 1B acaricides/insecticides. The resistant individuals may dominate the insect population if this group of acaricides/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 IMIDAN 50-WP INSTAPAK INSECTICIDE WETTABLE POWDER or other Group 1B acaricides/insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.

- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Gowon Company at (800) 783-8844 or at www.gowanco.com.

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. IMIDAN 50-WP INSTAPAK INSECTICIDE WETTABLE POWDER is compatible with most commonly used insecticides, miticides and fungicides, but is incompatible with alkaline materials such as Bordeaux and lime.

MIXING INSTRUCTIONS

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.

MIXING INSTRUCTIONS FOR IMIDAN 50-WP INSTAPAK INSECTICIDE WETTABLE POWDER

Half fill the spray tank with water (see WARNING above). With agitator operating, add the desired number of 1 kg water-soluble sachets. When determining the number of 1 kg sachets required to treat a given area, do not exceed the maximum label rate. If there is a screen in the fill opening, place water-soluble sachets on the screen and direct water flow onto them. Do not cut open the water-soluble sachets. Add balance of water to fill tank. Keep agitator running during filling, mixing and spraying operations. Do not allow the mix to stand. Do not add emulsifiable liquids to the mixture unless previous use of the materials being combined has proved them compatible. Reseal the protective, outer container tightly, to preserve remaining water-soluble sachets.

MIXING INSTRUCTIONS FOR TANK MIXES OF IMIDAN 50-WP INSTAPAK AND OTHER PESTICIDES

Water-soluble sachets of IMIDAN 50-WP INSTAPAK INSECTICIDE WETTABLE POWDER must be added to the spray water and the soluble sachet film must be completely dissolved before any other products are added.

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.

ALFALFA - Alfalfa Weevil: Apply 2.25 kilograms in 200 to 500 litres of water per hectare. Do not apply more than once per cutting or within 7 days of harvest. **Alfalfa blotch leafminer,** apply 2.25 kilograms in 200 to 500 litres of water per hectare when first signs of infestation are visible. Do not apply during bloom. Do not apply within 7 days of harvest.

APPLES - Codling moth, redbanded leaf roller, plum curculio, apple maggot, apple aphid, spotted tentiform leafminer, oblique-banded leafroller*, green fruitworm, tarnished plant bug, eye-spotted bud moth, San Jose scale, eastern tent caterpillar, elm spanworm, gypsy moth, Japanese beetle and spring cankerworm. Suppresses European red mite and twospotted spider mite. Apply 3.75 kilograms per hectare. May be applied up to the day before harvest.

* Begin sprays for oblique-banded leafroller within 7-10 days after first moths are trapped.

BLUEBERRIES - Blueberry maggot: Apply 2.25 kg in 1,000 litres of water per hectare. A second application may be made when indicated by insect infestations and local or provincial spray programs. Apply between July 15-30. Do not apply within 15 days of harvest.

- **Blueberry spanworm:** Apply 2.24 kg in 1,000 litres of water per hectare. By ground application only. Maximum of two applications per year. Apply from mid-April to Mid June for both sprouting and fruiting field sections. First application to be made when insects reach damaging levels; repeat application if necessary. Consult local crop specialists for detailed recommendations.

CARROTS - Carrot weevil: Apply 2.25 kilograms per hectare in sufficient water to provide good coverage. Consult local agricultural authorities regarding proper timing of spray applications. Do not apply more than 2 times per season. Do not apply within 40 days of the harvest.

CELERY(Field) - Carrot Weevil: Apply 2.25 kg per hectare in up to 1,000 litres of water per hectare. Do not apply more than 2 times per season. Consult local agricultural authorities regarding proper timing of spray application. Do not apply within 40 days of harvest.

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 and suppression of European red mite and twospotted spider mite: Apply 3.75 kg per hectare. Do not apply within 7 days of harvest.

CRANBERRIES – Blackheaded fireworm: Apply 2.2 kilograms per hectare by ground and/or chemigation. Maximum of four applications per year. Apply the first application after egg hatch and the second application 5-7 days later if necessary. Do not apply within 30 days of the harvest. See special chemigation instructions under Directions for Use, General Use Precautions.

GRAPES - Grape berry moth, eastern tent caterpillar, elm spanworm, gypsy moth, Japanese beetle and spring cankerworm: Apply 1.9 kg per hectare at prebloom, 2.5 kg at post bloom and 3.1 kg at the first cover. Do not apply within 7 days of harvest.

PEARS - Pear psylla, codling moth, redbanded leafroller, plum curculio, oblique-banded leafroller*, green fruitworm, rust mite, eastern tent caterpillar, elm spanworm, gypsy moth, Japanese beetle and spring canker worm and suppression of European red mite and twospotted spider mite: Apply 3.75 kg per hectare. May be applied up to the day before harvest.

* Begin sprays for oblique-banded leafroller within 7-10 days after first moths are trapped.

PEACHES - Plum curculio, peach twig borer, oriental fruit moth, oblique-banded leafroller*, tarnished plant bug, eastern tent caterpillar, elm spanworm, gypsy moth, Japanese beetle and spring cankerworm and suppression of European red mite and twospotted spider mite: Apply 3.75 kg per hectare. May be applied up to the day before harvest.

* Begin sprays for oblique-banded leafroller within 7-10 days after first moths are trapped.

PLUMS - Plum curculio, apple maggot, redbanded leafroller, eastern tent caterpillar, elm spanworm, gypsy moth, Japanese beetle and spring cankerworm and suppression of European red mite and twospotted spider mite: Apply 3.75 kg per hectare. May be applied up to the day before harvest.

POTATOES - Colorado potato beetle, potato flea beetle, potato leafhopper, potato aphid: Apply 2.25 kilograms per hectare in sufficient water to provide good coverage. Apply as required throughout the growing season. Do not apply within 7 days of harvest.

SHADE TREES AND ORNAMENTALS

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

Deciduous Shade and Ornamental Trees: Recommended on deciduous shade and ornamental trees (ash, beech, oak, dogwood, willow, hickory, hawthorne, birch, elm, maple) to control:

birch leaf miner (birch trees only)	gypsy moth
elm spanworm	Japanese beetle
spring cankerworm	eastern tent caterpillar

Woody Evergreens and Shrubs: Recommended on woody evergreens and shrubs (arborvitae, azalea, boxwood, camellia, cedar, fir, hemlock, hydrangea, juniper, lilac, pine, privet, rose, spruce, yew) to control:

elm spanworm	gypsy moth	Japanese beetle
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Herbaceous Plants: Recommended on herbaceous plants (chrysanthemum, geranium, zinnia, petunia, portulaca, four-o'clock, marigold, cosmos) to control:

elm spanworm	gypsy moth	Japanese beetle
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When such insects or their damage occur, apply at a rate of 1.25 kg per 1000 litres of water, thoroughly wetting all parts of the affected plants to the point of runoff. Repeat application as necessary to maintain insect control.

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 delayed until the largest larvae are 13 millimetres long. A second application may be necessary on some species 14 to 21 days after the first.

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.

Local agricultural authorities can best advise proper timing of spray applications.

NOTICE TO BUYER

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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INSTAPAK is a registered trademark of ZENECA Corp.

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