

10163-313

03-30-2010

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

**March 30, 2010**

**Julie M. Butcher, Registration Specialist**  
**Gowan Company**  
**P.O. Box 5569**  
**Yuma, AZ 85366-5569**

**Subject:** Label Amendment—Incorporating changes from Notice of Registration comments, dated March 4, 2010

**Product Name:** Imidan® 60 WDG Agricultural Insecticide

**EPA Reg. No.:** 10163-313

**Application Dated:** March 23, 2010

**Decision Number:** 430662

Dear Ms. Butcher:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy of the label is enclosed for your records

If you have any questions, you may contact Clayton Myers at (703) 347-8874 or [myers.clayton@epa.gov](mailto:myers.clayton@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to be "R. Gebken".

for

Richard J. Gebken, Product Manager  
Registration Division, Insecticide Branch  
(7505P)

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GROUP **1B** INSECTICIDE

# Imidan<sup>®</sup>

Agricultural Insecticide **60WDG**

Water Dispersible Granules

<b>ACTIVE INGREDIENT:</b> Phosmet	<b>% By Wt.</b>
N-(Mercaptomethyl) phthalimide, S-(O,O-dimethyl phosphorodithioate)	60.0%
<b>OTHER INGREDIENTS</b>	40.0%
	<b>TOTAL 100.0%</b>

## KEEP OUT OF REACH OF CHILDREN WARNING-AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID ORGANOPHOSPHATE	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-888-478-0798 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.	

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING-AVISO

May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. [Wear protective eyewear]. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Wear: Long sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Barrier Lamine, Viton, Selection Category H).

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are Barrier Lamine and Viton. If you want more options, follow the instructions for category H on an EPA chemical-resistance category selection chart.

Mixers, loaders, all other applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks and shoes
- Chemical-resistant gloves for mixers and loaders, applicators using hand held equipment
- Chemical resistant apron for mixers and loaders
- Chemical-resistant headgear for overhead exposure.

**ACCEPTED**  
03/30/2010  
**Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for the  
pesticide registered under:**

NET CONTENTS \_\_\_\_\_ LBS.

EPA Reg. No: 10163-313

EPA Reg. No. 10163-313  
EPA Est. No.



Produced For:  
Gowan Company  
P.O. Box 5569  
Yuma, AZ 85366-5569

**Applicators performing pine seedling dipping-must wear:**

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant apron
- A respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R or P or He prefilter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENGINEERING CONTROLS**

**Mixers and loaders must wear:**

- Personal Protective Equipment identified above is required for mixers/loaders
- Be provided and must have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown:
  1. Coveralls
  2. Chemical-resistant footwear
  3. A respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSMH/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R or P or He prefilter.

**Motorized groundboom applicators must be in fully enclosed cabs or, if not in fully enclosed cabs, applicators must wear double-layer clothing, chemical-resistant headgear, respirator, chemical-resistant footwear, chemical-resistant gloves and socks.**

**Applicators using airblast equipment and flaggers must use an enclosed cab meeting the definition in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, such applicators and flaggers must:**

- Wear the Personal Protective Equipment required above for airblast applicators and flaggers.
- Be provided and must have immediately available for use in an emergency when they must exit the cab in the treated area:
  1. Coveralls
  2. Chemical-resistant gloves
  3. Chemical-resistant footwear
  4. Chemical-resistant headgear if overhead exposure

Take off any PPE that was worn in the treated area before reentering the cab; and store all such PPE in a chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

**ENVIRONMENTAL HAZARDS**

This chemical can contaminate surface water through ground spray applications. Under some conditions, it may also have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water. Limit spray drift. This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

This product is highly toxic to bees exposed directly to treatment of residues on crops. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your cooperative Agricultural Extension Service.

**USE PRECAUTIONS**

Read all precautions and directions before using. Apply this product only as specified on this label. Use in residential, park, or recreational areas is prohibited.

Imidan 60-WDG is compatible with most commonly used insecticides and fungicides, but is incompatible with alkaline materials such as spray lime, lime sulfur, and Bordeaux mixtures. These materials will reduce the insecticidal activity of Imidan 60-WDG.

**Insecticidal activity may also be reduced when the spray solution has a pH of 6 or higher. The pH of the spray solution must be corrected by the addition of a suitable buffering or acidifying agent for optimum insecticidal activity.**

**Aerial and overhead chemigation applications of this product are prohibited.**

**SPRAY DRIFT MANAGEMENT**

Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

Avoiding spray drift is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions.

**For ground boom applications:**

Apply with nozzle height no more than 2 feet above the ground or crop canopy, and when the wind speed is 3 - 10 mph at the application site as measured by an anemometer. Use a coarse or coarser spray (ASAE definition 572) for standard nozzles, or a volume median diameter (VMD) of 385 microns or greater for spinning atomizer nozzles.

**For airblast applications:**

Do not direct spray above trees and vines, and turn off outward pointing nozzles at row ends and when spraying the outer 2 rows. Apply only when the wind speed is 3 - 10 mph at the application site.

**The applicator also must use all other measures necessary to control drift.**

**SPRAY DRIFT RESTRICTIONS**

Do not apply this product in a manner inconsistent with the Best Management Practices summarized below:

1. Use the largest drop size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure.
2. For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy.
3. Make applications when the wind velocity favors on-target product deposition. Apply only when the wind speed is 3 to 10 mph. Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.
4. Do not make applications into areas of temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
5. Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures.
6. All application equipment must be properly maintained and calibrated using appropriate carriers.
7. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.
8. For ground-boom, orchard or other airblast applications, do not apply within 25 feet of permanent water bodies (rivers, natural ponds, lakes, streams, reservoirs, marches, estuaries, or commercial fish ponds).

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Not for use in residential areas. Use in park or recreational areas is prohibited.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval (REI). The REI for each crop is listed in the directions for use associated with each crop.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material
- Chemical-Resistant headgear for overhead exposure

**DILUTION DIRECTIONS**

The rate required for thorough, uniform coverage varies with plant growth at time of application. Apply recommended rate in adequate spray volumes to provide complete coverage of fruit and foliage.

**MIXING DIRECTIONS**

**Please read and observe the following directions for use:**

- Fill the tank 1/2 full of water.
- While agitating, add the required amount of Imidan 60-WDG
- Continue agitation for three and five minutes or until the Imidan 60-WDG is fully dispersed.
- Once the Imidan 60-WDG is fully dispersed, maintain agitation and continue filling the tank with water. Imidan 60-WDG should be thoroughly mixed with water before adding any other material.
- As the tank is filling, add tank mix partners (if desired) then add the required volume of spray adjuvant. Always add the spray adjuvant last. Antifoaming agents may be used.

**RESISTANCE MANAGEMENT**

Imidan 60-WDG contains a Group 1B insecticide. Insect/mite biotypes with acquired resistance to Group 1B may eventually dominate the insect/mite population if Group 1B insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Imidan 60-WDG or other Group 1B insecticides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of Imidan 60-WDG or other group 1B insecticides that have a similar target site of action, on the same insect/mite species.
- Using tank-mixtures or premixes with insecticides from a different target site of action Group as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide use on comprehensive IPM program.
- Monitoring treated insect/mite populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report suspected resistance, you may contact Gowan Company at toll free 1-800-883-1844.

**USE LIMITATIONS**

Do not exceed the maximum rate of phosmet per acre or the time limitations specified for the individual crops. Use in residential, park, or recreational areas is prohibited. Imidan 60-WDG is only for use in commercial agricultural crops and areas as listed. Do not apply to forests or natural fallow or wooded areas.

**USE RECOMMENDATIONS  
FRUIT AND NUT CROPS**

**DORMANT SPRAYS:** Imidan 60-WDG may be used during dormancy to control specified insects listed in each crop grouping which may overwinter on the tree and vine crops. Imidan 60-WDG may be used in combination with spray oils; always follow spray oil manufacturer's label recommendations. **Pruning must occur before any dormant treatments of Phosmet.**

**SPLIT APPLICATION SPRAYS:** Applications to tree fruits and nuts may be made using a split application spray schedule. See crop for more specific application directions (if applicable).

The split application method may be used to improve efficacy and, in the case of nut crops, to time insecticide applications at the onset of hullsplit of different maturing varieties that may be present within a single orchard. Check with your local agricultural advisor, State Cooperative Extension Service or regional Gowan Company representative for recommendations.

**PREHARVEST INTERVAL**

The required days between the last application and harvest are given in ( ) after each crop name.

**FRUIT AND NUT CROPS**

CROP	PEST	USE RATE lbs./acre	COMMENTS
ALMONDS (30)	Peach Twig Borer	5 (3 lbs ai)	Limit use on bearing almonds to one foliar application per season.
	<ul style="list-style-type: none"> <li>• Nuts must be harvested mechanically.</li> <li>• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days.</li> <li>• Hand-thinning, poling, and pruning are prohibited until 28 days after application of phosmet.</li> <li>• Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>		
ALMONDS (California only) (30)	Peach Twig Borer, Navel Orangeworm	5 (3 lbs ai)	In California only, to obtain optimum navel orangeworm control in the spring application, proper timing of sprays should be coordinated with effective use of a navel orangeworm monitoring system. Late season treatments must be applied before hull split reaches 10%.
	<ul style="list-style-type: none"> <li>• Do not make more than 2 applications per season as a foliar spray.</li> <li>• Nuts must be harvested mechanically.</li> <li>• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days.</li> <li>• Hand-thinning, poling, and pruning are prohibited until 28 days after application of phosmet.</li> <li>• Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>		
	DORMANT SPRAY: Peach Twig Borer, San Jose Scale	5 (3 lbs ai)	For control of scale insects during dormant application, tank mix recommended rate of Imidan with dormant spray oil. Follow oil manufacturer's use directions. Add oil to the spray tank last, after buffer and Imidan 60-WDG have been added.
<ul style="list-style-type: none"> <li>• Do not make more than 2 applications per season as a foliar spray.</li> <li>• Nuts must be harvested mechanically.</li> <li>• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days.</li> <li>• Hand-thinning, poling, and pruning are prohibited until 28 days after application of phosmet.</li> <li>• Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>			
CRANBERRIES (14) (Except California)	Fireworms, Cranberry Fruitworm, Cranberry Weevil, Spanworms, Gypsy Moth, <i>Sparganothis</i> Fruitworm, Cutworms, Blossomworm, False Armyworm, Cranberry Tipworm Midge	1 1/2 – 4 2/3 (1 – 2.8 lbs ai)  (not to exceed 18 lbs. of product or 10.8 lbs a.i. per season)	For heavy insect infestations, use higher dosage rates. For best results, treat early-stage larvae. Apply in sufficient water to obtain complete coverage. Repeat applications no sooner than 10 days with a minimum spray volume of 20 gals. per acre.
	<ul style="list-style-type: none"> <li>• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days.</li> <li>• Do not apply within 14 days of harvest.</li> <li>• May need to use higher dosage for Fruitworm and Cranberry Weevil control.</li> <li>• Consult with your pest management advisor or local Extension Service for specific recommendations on rates and timing.</li> <li>• Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>		

**FRUIT AND NUT CROPS (continued)**

<b>CHERRIES</b> Sour (Tart) (7)	Cherry Fruit Fly, Fruittree Leafroller, Japanese Beetle, Peach Twig Borer, Plum Curculio, Rose Chafer, San Jose Scale	2 1/2 (1.5 lbs ai)  (or 7/8 lb. per 100 gals. not to exceed 2 1/2 lbs product or 1.5 lbs ai per acre)	Repeat applications as necessary in accordance with insect infestations and local and State spray programs.
	Syneta Beetle	1 1/3 (0.8 lbs ai)	Apply in a minimum of 50 gals. of water per acre. Use prebloom (popcorn stage) if beetles are present, and allow 5 days before introducing bees. If not sprayed prebloom and Syneta beetle is a problem, apply at petal fall prior to shuck fall.
	<ul style="list-style-type: none"> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days.</li> <li>Do not apply more than 8 3/4 lbs. Imidan 60-WDG (5.25 lbs a.i.) per acre per year.</li> <li>Hand-thinning is prohibited until 14 days after application of phosmet.</li> <li>The user shall not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own," "U-pick," or similar operations, to enter a treated area for 14 days after application.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>		
<b>PECANS</b> (14)	Black Pecan Aphid, Fall Webworm*, Hickory Shuckworm, Pecan Nut Casebearer, Pecan Weevil*, Southern Green Stink Bug*, Spittlebug	2 1/3 - 3 5/8 (1.4 - 2.2 lbs ai)  (or 1 1/6 lb. per 100 gals. not to exceed 3 5/8 lbs product or 2.2 lbs ai per acre)	For heavy insect infestations, use higher dosage rates. Check with your local Extension Service for recommended use rates in your area. Apply in sufficient water for complete coverage when infestations start. Repeat applications as necessary in accordance with insect infestations and local and State spray programs. For low to moderate populations of pecan weevil, use 3 5/8 lbs. per acre (2.2 lbs a.i.) and repeat application at 7 day intervals. *Adequate control may not be achieved when heavy populations are present.
	<ul style="list-style-type: none"> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days.</li> <li>Do not apply more than 11 2/3 lbs. Imidan 60-WDG (7 lbs a.i.) per acre per year.</li> <li>Nuts must be harvested mechanically.</li> <li>Hand-thinning, poling, and pruning are prohibited until 28 days after application of phosmet.</li> <li>Do not graze or feed livestock on cover crops grown in treated pecan groves.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>		
<b>PISTACHIOS</b> (California only) (14)	Navel Orangeworm, Obliquebanded Leafroller, Peach Twig Borer	5 (3 lbs a.i.)	For optimum navel orangeworm control in the spring, use an appropriate navel orangeworm monitoring system to determine proper timing of the spray. Late season treatment for navel orangeworm must be applied before hull split reaches 10%.
	<ul style="list-style-type: none"> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days.</li> <li>Do not apply more than 20 lbs. Imidan 60-WDG (12 lbs a.i.) per acre per year.</li> <li>Do not apply more than 6 3/5 lbs. Imidan 60-WDG (4 lbs a.i.) per acre per season as a foliar spray.</li> <li>Nuts must be harvested mechanically.</li> <li>Hand-thinning, poling, and pruning are prohibited until 28 days after application of phosmet.</li> <li>Do not allow livestock to graze or feed on cover crops in treated pistachio groves.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>		
	DORMANT SPRAY: Peach Twig Borer, San Jose Scale	3 1/2 - 5 (2 - 3 lbs a.i.)	Apply as a full coverage dormant spray with a suitable spray oil according to oil manufacturer's specifications. Thorough coverage is essential for effective pest control.
<ul style="list-style-type: none"> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days.</li> <li>Do not apply more than 20 lbs. Imidan 60-WDG (12 lbs a.i.) per acre per year.</li> <li>Hand-thinning, poling, and pruning are prohibited until 28 days after application of phosmet.</li> <li>Do not apply more than 6 3/5 lbs. Imidan 60-WDG (4 lbs a.i.) per acre per season as a foliar spray.</li> <li>Nuts must be harvested mechanically.</li> <li>Do not allow livestock to graze or feed on cover crops in treated pistachio groves.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>			

**FRUIT AND NUT CROPS (continued)**

CROP	PEST	USE RATE lbs./acre	COMMENTS
<b>WALNUTS, FILBERTS, and OTHER NUTS</b> (including Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Hickory nut, Macadamia nut, and all hybrids or cultivars of these) (28)	Codling Moth, Navel Orangeworm, Walnut Husk Fly	5 – 9 7/8 (3 – 6 lbs a.i.)	For heavy insect infestations, use higher dosage rates. Repeat applications as necessary in accordance with insect infestations and local and State spray programs.
	<ul style="list-style-type: none"> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 7 days.</li> <li>Nuts must be harvested mechanically.</li> <li>Hand-thinning, poling, and pruning are prohibited until 28 days after application of phosmet.</li> <li>Do not apply more than 20 lbs. Imidan 60-WDG (12 lbs a.i.) per acre per year.</li> <li>Do not apply more than 9 7/8 lbs. Imidan 60-WDG (6 lbs a.i.) per acre per application or more than 5 times per season.</li> <li>Do not apply after hull split.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>		

**FIELD, FORAGE, AND VEGETABLE CROPS**

CROP	PEST	USE RATE lbs./acre	COMMENTS
<b>ALFALFA</b> (See text for PHI)	Alfalfa Blotch Leafminer*, Alfalfa Plant Bug*, Common and Egyptian Alfalfa Weevil larvae and adults, Fleahopper, Grasshopper, Lygus Bugs*, Pea Aphid*, Potato Leafhopper**, Leafhoppers, Spittlebugs	Arizona, California and Nevada: 1 1/6 (0.7 lbs a.i.)	Apply in a minimum of 10 gals. of water (20 gals. for dense stands) Consult your local farm advisor regarding the proper timing of application. Larvae should be sprayed when they are actively feeding. * For control of pea aphid and other alfalfa pests, use Imidan in tank mix combination with other insecticides registered for use on alfalfa. ** Recommended for potato leafhopper in the Northeast and North Central States only.
		All other alfalfa growing regions: 1 1/6 – 1 1/2 (0.7 – 1 lb a.i.)	
<ul style="list-style-type: none"> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 5 days.</li> <li>Do not apply more than once per cutting.</li> <li>Do not apply to alfalfa in the bloom period.</li> <li>Do not use with latex or pineolene-based adjuvants or any agricultural sticker or extender.</li> <li>In Arizona, California, and Nevada, do not graze or cut for hay within 14 days of application.</li> <li>In all other alfalfa growing regions, do not graze or cut for hay within 7 days of application.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>			
<b>FIELD MARGINS</b> (margins of cultivated fields and forage crop sites listed on this label)	Grasshopper	2 1/2 - 3 1/5 (1.5 – 2 lbs a.i.)	Apply in 10 - 50 gals. of water per acre (20 - 50 gals. in dense stands).
<b>PEAS, Fresh and Dry (Pacific Northwest only)</b> (18)	Pea Weevil, Pea Leaf Weevil	1 1/6 – 1 1/2 (0.7 – 1 lb a.i.)	Apply in a minimum of 20 gals. of water per acre. Apply between emergence and early pod formation when adult populations are present but before eggs are laid. Consult your local County Agent or Extension Service Representative regarding proper timing of application.
<b>POTATOES</b> (7)	Colorado Potato Beetle, European Corn Borer, Potato Flea Beetle, Potato Leafhopper, Potato Tuber Moth	1 1/2 (1 lb a.i.)	Apply in a minimum of 2 gals. of water per acre. Repeat applications as necessary throughout the growing season with a minimum of 10 days between applications.

**FIELD, FORAGE, AND VEGETABLE CROPS (continued)**

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CROP	PEST	USE RATE lbs./acre	COMMENTS
<b>SWEET POTATOES</b> (7)	Sweet Potato Weevil, Banded Cucumber Beetle, Whitefringed Beetle, suppression of White Grub and Wireworm	1 ½ (1 lb a.i.)	Foliar applications: Apply 1 ½ lbs. of Imidan 60-WDG (1 lb a.i.) in a minimum of 2 gallons of water per acre as a full coverage spray. Plantbed treatment: Apply 1 ½ lbs. Imidan 60-WDG (1 lb a.i.) in 25-50 gallons of water per acre. Allow a minimum of 10 days between foliar and plantbed re-applications.
	<ul style="list-style-type: none"> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 days for seedbed treatment and 5 days for foliar applications.</li> <li>Do not make more than 5 applications per season.</li> <li>Do not apply within 7 days of harvest.</li> <li>Do not apply more than 7 ¼ lbs. of Imidan 60-WDG (4.65 lbs a.i.) per acre per crop season.</li> <li>Sweet potatoes must be harvested mechanically.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>		

**OTHER USES (NOT FOR HOMEOWNER USE)**

CROP	PEST	USE RATE	COMMENTS
<b>CONIFER TREES</b> (Growing in Christmas Tree Nurseries and Plantations)	European Pine Shoot Moth ( <i>Rhyacionia buoliana</i> ), Gypsy Moth, Nantucket Pine Tip Moth, Pitch Eating Weevil, Pales Weevil, Adult Root Collar Weevil, Sawfly	1 ½ - 1 ¾ lbs. per acre Imidan 60-WDG (1 - 1.05 lbs a.i.) <b>OR</b> For individual trees 1 ½ lbs. Imidan 60-WDG (1 lb a.i.) per 100 gals.	Apply in sufficient water to achieve thorough and complete coverage. Apply when pest populations reach economic threshold levels as determined by the local Extension Service, Forest Service, or other monitoring system. The addition of a sticker or extender may help retain Imidan 60-WDG on the needles under high rainfall conditions.
	<ul style="list-style-type: none"> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 13 days.</li> <li>Do not make more than 3 applications per year.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>		
<b>CONIFER TREE SEED ORCHARDS</b>	Seedworms, Coneworms, Seed Bugs, Mealybugs	1 ½ - 1 ¾ lbs. Imidan 60-WDG (1 - 1.05 lbs a.i.) per acre	Thorough coverage of cones is necessary for maximum control. Apply in sufficient water for complete coverage. First application should be applied within 30 days of peak pollen flight followed by 2 applications as needed.
	<ul style="list-style-type: none"> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 13 days.</li> <li>Do not make more than 3 applications per year.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>		
<b>CONIFER SEEDLINGS</b> (White, Slash and Loblolly)	Pales Weevil ( <i>Hyllobius pales</i> ), Pitch Eating Weevil ( <i>Pachylobius picivorus</i> )	4% Top Dip Solution  Use this amount of Imidan  <u>To make</u> <u>60-WDG</u> <u>lbs. a.i.</u> 5 gals.    2 7/8 lbs.    1.73 30 gals    16 1/3 lbs.    9.80 50 gals.    28 lbs.    16.80 100 gals.    56 lbs.    33.60	Use Imidan 60-WDG as a 4% top dip, dipping down to and including root collar only. Dip in bundles loose enough to allow solution to penetrate the bundles. Avoid coverage of roots. Swish tops in solution for 10 to 15 seconds to assure adequate coverage of all top growth. Drain and allow seedlings to dry before planting. The addition of a sticker or extender may help retain Imidan 60-WDG on the needles under high rainfall conditions. Some slight needle burn and first year growth reduction may occur on treatment of loblolly pine. Agitate frequently to keep Imidan 60-WDG in suspension. Five gals. of solution should be enough to treat 10,000 seedlings.
	<ul style="list-style-type: none"> <li>Do not keep Imidan solution overnight. Make up a fresh batch each day that seedlings will be dipped.</li> <li>Handlers must also wear long-sleeved shirt and long pants, shoes, socks, additional layer of clothing, chemical-resistant gloves, chemical-resistant apron and an air purifying respirator (OV).</li> </ul>		
<b>DECIDUOUS TREES, and WOODY EVERGREENS</b>	Elm Spanworm, Birch Leafminer, Eastern Tent Caterpillar, Elm Leaf Beetle larvae, Gypsy Moth, Leafhopper, Magnolia Leafminer, Mealybug, Japanese Beetle, Redhumped Caterpillar, Snails, Slugs, Spring Cankerworm	7/8 to 1 1/8 lb. Imidan 60-WDG (0.5 - 0.7 lbs a.i.) per 100 gals.	Apply when insects or their damage occur. Thoroughly wet all parts of the affected plants to the point of runoff. For heavy infestations, use the higher dosage rate. Repeat application as necessary to maintain insect control. Choose a cool calm period, preferably in early morning or evening.
	<ul style="list-style-type: none"> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 13 days.</li> <li>Do not make more than 3 applications per year.</li> <li>Do not apply if rain is expected or before leaf surfaces are dry.</li> </ul>		



OTHER USES (NOT FOR HOMEOWNER USE) continued

CROP	PEST	USE RATE	COMMENTS
<b>ORNAMENTAL PLANTS AND NONBEARING FRUIT AND NUT TREES AND VINES</b> (Growing in nurseries, and established ornamental landscape plantings)	Elm Spanworm, Birch Leafminer, Eastern Tent Caterpillar, Elm Leaf Beetle Larvae, Gypsy Moth, Leafhopper, Magnolia Leafminer, Mealybug, Japanese Beetle, Redhumped Caterpillar, Snails, Slugs, Spring Cankerworm	7/8 to 1 1/6 lb. Imidan 60-WDG (0.5 – 0.7 lbs a.i.) per 100 gals.	Apply in sufficient water to achieve thorough and complete coverage. Apply when pest populations reach economic threshold levels as determined by the local Extension Service, Forest Service, or other monitoring system.
	<ul style="list-style-type: none"> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 24 hours.</li> <li>Do not make more than 3 applications per year.</li> </ul>		

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a cool, dry place. Always store pesticides in the original container. If a leaky container must be contained within another, mark the outer container to identify the contents. The storage area must be dry, well-lit, and well-ventilated. Keep pesticide storage areas clean. Clean up spills promptly. Store pesticides away from food, feed, seed and fertilizers.

**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available, or dispose of empty bag in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned stay out of smoke.

**SPILL OR LEAK:** A small spill can be handled routinely. Use adequate ventilation and wear an air-supplied respirator to prevent inhalation. Wear suitable protective clothing and eye protection to prevent skin and eye contact. Use the following procedures:

- Sweep up spilled material being careful not to create dust.
- Place sweepings in an open drum.
- Generously cover the contaminated areas with a common household detergent. Using a stiff brush and small amounts of water, work the detergent into the spill material forming a slurry. Do not splatter on one's self or bystanders. Completely avoid skin and eye contact with this material. Brush the slurry into cracks and crevices and allow to stand for 2 - 3 minutes.
- Spread a suitable absorbent such as clay, sawdust, or kitty litter on the slurried liquid. Shovel absorbed material into an open drum.
- Repeat if necessary.
- Flush area with water while observing proper environmental considerations. Seal drum and dispose of contaminated material in an approved pesticide landfill.

Large spills must be handled according to a predetermined plan. For assistance in developing a plan, contact Gowan Company.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE), CALL CHEMTREC® (800) 424-9300.

For other product information, contact Gowan Company or see Material Safety Data Sheet

NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS

**Important:** Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our directions for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of Gowan Company. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer and User.

Gowan Company warrants that his product conforms to the specifications on the label and is reasonably fit for the intended purpose referred to on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY'S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT, AT GOWAN COMPANY'S SOLE DISCRETION.

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