

10163-169

06-07-2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Krystal Hengel  
Gowan  
P.O. Box 5569  
Yuma, AZ 85366-5569

**NOTIFICATION**

**JUN 7 - 2011**

Subject: Notification to add pest to label  
EPA Registration Number: 10163-169  
Decision: 449129

Dear Ms. Hengel:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration (PRN)98-10 dated May 5, 2011, for the abovementioned product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions regarding this letter, please contact Samantha Hulkower at (703) 603-0683.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Suarez", written over a horizontal line.

Mark Suarez  
Product Manager 13  
Insecticide Branch  
Registration Division (7505P)

Enclosures: Copy of Label Stamped "Notification"

	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration	OPP Identifier Number
		<input type="checkbox"/> Amendment	
		<input checked="" type="checkbox"/> Other	

**Application for Pesticide - Section I**

1. Company/Product Number 10163-169	2. EPA Product Manager Richard Gebken	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Imidan 70-W Insecticide	PM# Team# 10	
5. Name and Address of Applicant (Include ZIP Code) Gowan Company P.O. Box 5569 Yuma, AZ 85366-5569 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

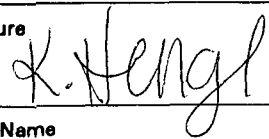
<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)  
Notification of minor label change, addition of pest

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt. _____ No. per container _____	If "Yes" Package wgt. _____ No. per container _____		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> on label	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Krystal Hengl	Title Registration Specialist	Telephone No. (Include Area Code) 923-819-1526
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Registration Specialist	
4. Typed Name Krystal Hengl	5. Date May 5, 2011	



GROUP

INSECTICIDE

**Imidan<sup>®</sup> 70-W**

Agricultural Insecticide

(Water Soluble Bags)

NOTIFICATION

JUN 7 - 2011

ACTIVE INGREDIENT: Phosmet

% By Wt.

N-(Mercaptomethyl) phthalimide, S-(O,O-dimethyl phosphorodithioate

70.0%

OTHER INGREDIENTS

30.0%

TOTAL 100.0%

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**
**IF SWALLOWED:**

- Call a poison control center 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 the poison control center 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 center 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 center or doctor for treatment advice.

**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. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Causes moderate eye irritation.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

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

**Mixers, loaders, and applicators using engineering controls, including enclosed-cockpit aerial equipment and enclosed-cab ground equipment, and mixers, loaders, and applicators using handheld equipment or handheld nozzles must wear at least (see engineering control section of this labeling for more requirements and options):**

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves when mixing and loading, and when applying with handheld equipment or handheld nozzles, and
- Chemical-resistant apron when mixing and loading.

**Motorized ground equipment applicators not in an enclosed cab, applicators dipping pine seedlings, and handlers engaged in cleaning up a spill or leak, or cleaning or repairing contaminated equipment, must wear:**

- Coveralls over long-sleeve shirt and long pants,
- Chemical-resistant gloves,
- Chemical-resistant footwear plus socks,
- Chemical-resistant headgear for overhead exposure,
- Chemical-resistant apron, if exposed to the concentrate or applying as a pine seedling dip, and
- A respirator with an organic-vapor 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 cartridge or canister with any N, R or P or He prefilter.

See Engineering Controls for additional requirements and options.

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

**Gowan**  
The Go To Company

EPA Reg. No. 10163-169  
EPA Est. No. 67545-AZ-1

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

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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

##### Engineering Controls for Mixers and Loaders:

Water-soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40CFR 170.240(d)(4)].

Mixers and loaders using water-soluble packets must:

- Wear the personal protective equipment required in the PPE section of this labeling for mixers and loaders using engineering controls, and
- Be provided and have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown:
  1. Chemical-resistant footwear, and
  2. A respirator of the type specified in the PPE section of this labeling.

##### Engineering Controls for Applicators using Enclosed Cab Motorized Ground Equipment:

When applicators use motorized groundboom or airblast equipment with an enclosed cab that meets the definition in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection, they must:

- Wear the PPE specified on this labeling for applicators using enclosed cabs, and
- Either wear a respirator of the type specified in the PPE section of this labeling OR use an enclosed cab that is declared in writing by the manufacturer or by a government agency to provide at least as much respiratory protection as the respirator specified above,
- 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, and
  5. If using an enclosed cab that provides respiratory protection, a respirator of the type specified in the PPE section of this labeling.
- 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.

##### Engineering Controls for Aerial Applications:

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240(d)(6)]. Human flagging is prohibited.

#### ENVIRONMENTAL HAZARDS

This chemical can contaminate surface water through aerial and 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.

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 rinseate.

This product is highly toxic to bees exposed directly to application 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 70-W 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 70-W.

**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.**

#### 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 applications.

##### For overhead chemigation:

Apply only when wind speed is 3-10 mph.

##### 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 (ASABE definition S572) for standard nozzles, or a volume mean 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 as measured by an anemometer.

**For aerial applications:**

If the application includes a no-spray buffer zone, do not release spray at a height greater than 10 feet above the ground or crop canopy. Apply only when the wind speed is 3-10 mph. Use a coarse or coarser spray (ASABE definition S572) for standard nozzles, or a volume mean diameter (VMD) of 385 microns or greater for spinning atomizer nozzles. Aerial applicators must consider flight speed and nozzle orientation in determining droplet size. The boom width must not exceed 75% of the wingspan or 90% of the rotary blade. When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

The applicator also must use all other measures 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 aerial applications, release spray at the lowest height consistent with efficacy and flight safety. For applications other than those on potatoes, if the application site is within 50 feet of a permanent water body, do not release spray at a height greater than 10 feet above the ground or crop canopy. For applications to potatoes, if the application site is within 150 feet of a permanent water body, do not release spray at a height greater than 10 feet above the ground or crop canopy.
3. For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy.
4. Make aerial or ground applications when the wind velocity favors on-target product deposition. Apply only when the wind speed is 3 to 10 mph. For all non-aerial applications, wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.
5. Do not make aerial or ground 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.
6. 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.
7. All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.
8. 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.
9. For ground-boom, chemigation, 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).
10. For aerial application to crops other than potatoes, do not apply within 50 feet of permanent water bodies. For aerial applications to potatoes, do not apply within 150 feet of permanent water bodies.

**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.

- For aerial applications, apply in a minimum of 2 gals of water per acre for field and row crops, and a minimum of 5 gals of water per acre for tree and vine crops unless otherwise specified in the recommendation for a specific crop.

### MIXING DIRECTIONS

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

- Packets containing Imidan 70-W are water-soluble. Avoid exposing inner bags to moisture.
- Do not allow bags to become wet prior to adding to the spray tank.
- Do not handle inner bag with wet hands.
- Reseal outer bag in a manner that protects remaining packets from moisture.
- Turn on spray tank agitation prior to adding water-soluble packets.
- To prepare the spray mixture, drop the required number of unopened packets, as determined under **USE RECOMMENDATIONS**, into the spray tank while filling with water to the desired level (whenever possible direct the fill water over the top of the packets to increase the rate of solubility). Where dosages of Imidan 70-W are expressed as fractions of packets, prepare the tank mix load to the lower of the nearest whole packet.
- Depending on the water temperature and the degree of agitation, the packets should be completely dissolved within approximately three to five minutes from the time they were added to the spray tank.
- Once the packets have completely dissolved, add other chemicals following conventional mixing order practices.
- Tank-mix solutions containing boron will affect the solubility of the water-soluble film. Thoroughly rinse the spray tank of any boron - containing spray solution prior to adding any water-soluble packets. When preparing tank mixes containing boron, add the correct amount of Savey DF to the spray tank first. Make sure that the water-soluble packets are completely dissolved. Add boron preparations to the spray tank last. High concentrations of boron may cause dissolved water soluble bag material to precipitate and form insoluble residue in the spray tank system.

### GENERAL CHEMIGATION INSTRUCTIONS

Apply this product only through one or more of the following types of systems: Sprinkler (including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set or hand move). Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

#### For Chemigation Systems Connected to Public Water Systems

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Do not apply Imidan 70-W through any irrigation system supplied by a public water system unless the water supplied from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

**In addition, all directions and requirements specified for Sprinkler Irrigation Systems must be followed.**

#### Sprinkler Irrigation Systems

The system must contain a functional check valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

**Center pivot, motorized lateral move, or traveling gun types of equipment:** Inject into the system for one revolution or run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until Imidan 70-W has been cleared from the last sprinkler head. Do not use end guns. The system should be run at maximum speed for a foliar application.

**Wheel move, side roll, end tow, solid set, or hand move types of equipment:** Adjust equipment to inject Imidan 70-W over a 30-60 minute period. Shut off injection equipment. Continue to operate irrigation system until Imidan 70-W has been cleared from the last sprinkler head. Imidan 70-W can be injected at the end of the irrigation cycle or as a separate application. Do not use end guns. Imidan 70-W must be premixed in a supply tank with water and other appropriate tank-mix chemicals. Agitation is necessary at all times.

**Caution must be exercised in irrigation waters with a pH greater than 7. If the irrigation cycle will last longer than 8 hours and the Imidan 70-W is premixed in the supply tank, the tank mix must be buffered to a pH of 5.5 or lower.** Please contact your Gowan sales representative

should this situation apply. Application should be in sufficient water and of sufficient duration to apply the recommended rate evenly over the entire treated area.

**No field runoff can be permitted during chemigation.**

#### RESISTANCE MANAGEMENT

Imidan 70-W 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 70-W or other Group 1B insecticides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of Imidan 70-W 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 70-W 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 70-W may be used during dormancy to control specified insects listed in each crop grouping which may overwinter on the tree and vine crops. Imidan 70-W 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
<b>ALMONDS</b> (30)	Peach Twig Borer	4 1/3 (3 lbs ai)	Limit use on bearing almonds to one foliar application per season.
	<ul style="list-style-type: none"> <li>• Do not prune for 7 days following an application of Imidan 70-W.</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>• Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> </ul>		
<b>ALMONDS</b> (California only) (30)	Peach Twig Borer, Navel Orangeworm	4 1/3 (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%.
	DORMANT SPRAY: Peach Twig Borer, San Jose Scale	4 1/3 (3 lbs ai)	For control of scale insects during dormant application, tank mix recommended rate of Imidan 70-W with dormant spray oil. Follow oil manufacturer's use directions. Add oil to the spray tank last, after buffer, and Imidan 70-W 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>• Do not prune for 7 days following an application of Imidan 70-W.</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>• 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>APPLES (7)</b>  <b>CRABAPPLES</b> (California Only) (7)	Apple Maggot, Codling Moth, Elm Spanworm, Dock Sawfly, European Corn Borer, European Sawfly, Fruittree Leafroller, Green Fruitworm, Gypsy Moth, Japanese Beetle, Mealybug, Orange Tortrix, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Redbanded Leafroller, Redhumped Caterpillar, Rose Chafer, San Jose Scale, Spotted Wing Drosophila	2 1/8 – 5 3/4 (1.5 – 4 lbs ai)  (or 3/4 - 1 lb per 100 gals not to exceed 5 3/4 lbs product or 4 lbs ai per acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (3 1/2 – 5 3/4 lbs product or 2.45 – 4 lbs ai per acre). Repeat applications as necessary in accordance with insect infestations and local and State spray programs.
	<ul style="list-style-type: none"> <li>• <b>East of the Rockies:</b> Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 days.</li> <li>• <b>West of the Rockies:</b> Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 7 days.</li> <li>• Do not apply more than 22 1/8 lbs Imidan 70-W (15.5 lbs ai) per acre per crop season.</li> <li>• For use on crabapples in California only.</li> <li>• Do 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 of this product.</li> <li>• Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>• Applications during the dormant season are prohibited.</li> <li>• For <b>groundboom and airblast applications</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>• For <b>aerial applications</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> </ul>		
<b>APPLES - Tank Mix with Methomyl (Lannate®) (Northeast only) (14)</b>	For control of the insects listed above for apples, plus Apple Aphid, Obliquebanded Leafroller, Rosy Apple Aphid, Tarnished Plant Bug, Sparganothis Leafroller, Spotted Tentiform Leafminer, Spotted Wing Drosophila, Tufted Apple Budmoth, Variegated Leafroller, White Apple Leafhopper	1 1/3 – 2 2/3 lbs. of Imidan 70-W (1 – 2 lbs ai) plus 1/2 - 1 lb 90% methomyl water soluble powder or 1 1/2 - 3 pints 24% methomyl LV (1/3 – 2/3 lb. Imidan 70-W (0.3 – 0.5 lbs ai) plus 2 - 4 oz. methomyl WSP or 6 - 9 oz. of methomyl LV per 100 gals. of water)	Apply as a full cover spray using up to 400 gals. per acre. Repeat 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 4 days.</li> <li>• Do not apply more than 22 1/8 lbs Imidan 70-W (15.5 lbs ai) per acre per crop season.</li> <li>• Do not use on Early MacIntosh or Wealthy varieties.</li> <li>• Do not graze/feed livestock under treated trees for 10 days after application.</li> <li>• Do 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 of this product.</li> <li>• Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>• Applications during the dormant season are prohibited.</li> <li>• For <b>groundboom and airblast applications</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>• For <b>aerial applications</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> </ul>		

FRUIT AND NUT CROPS (continued)

CROP	PEST	USE RATE lbs/acre	COMMENTS
APRICOTS (East of the Rockies) (14)	Apple Maggot, Fruitree Leafroller, Japanese Beetle, Orange Tortrix, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Redbanded Leafroller, Rose Chafer, Spotted Wing Drosophila, Western Tussock Moth	2 1/8 – 4 1/4 (1.5 – 3 lbs ai)  (or 3/4 - 1 lb per 100 gals not to exceed 4 1/4 lbs product or 3 lbs ai per acre)	For heavy insect infestations use higher dosage rates (4 1/4 lbs product or 3 lbs ai per acre). 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. Harvesting is prohibited for 14 days after application.</li> <li>Do not apply more than 13 lbs Imidan 70-W (9 lbs ai) per acre per year.</li> <li>Do 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 of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>For <b>groundboom and airblast applications</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>aerial applications</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>Applications during the dormant season are prohibited.</li> </ul>		
APRICOTS (West of the Rockies) (14)	Apple Maggot, Fruitree Leafroller, Japanese Beetle, Orange Tortrix, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Redbanded Leafroller, Rose Chafer, Spotted Wing Drosophila, Western Tussock Moth	2 1/8 – 4 1/4 (1.5 – 3 lbs ai)  (or 3/4 - 1 lb per 100 gals not to exceed 4 1/4 lbs product or 3 lbs ai per acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (4 1/4 lbs product or 3 lbs ai per acre). 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. Harvesting is prohibited for 14 days after application.</li> <li>Do not apply more than 13 lbs Imidan 70-W (9 lbs ai) per acre per year.</li> <li>After an application of Imidan 70-W during the growing season, do not enter or allow entry into treated areas to conduct thinning tasks for the remainder of that growing season.</li> <li>After an application of Imidan 70-W during the dormant season, do not enter or allow entry into treated areas to conduct pruning tasks or other hand labor tasks for the remainder of that dormant season.</li> <li>Do 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 of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>For <b>groundboom and airblast applications</b> during the <b>growing season</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>groundboom and airblast applications</b> during the <b>dormant season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>aerial applications during the growing season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>During the dormant season, aerial applications are prohibited.</li> </ul>		

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CROP	PEST	USE RATE lbs/acre	COMMENTS
<b>BLUEBERRIES</b> (High Bush) (3)	Blueberry Maggot, Cherry Fruitworm, Cranberry Fruitworm, Flea Beetle, Grasshopper, Japanese Beetle, Plum Curculio, Obliquebanded Leafroller, Redbanded Leafroller, Redstriped Fireworm, Rose Chafer, Sawfly, Spanworm, <u>Spotted</u> Wing Drosophila, Strawberry Root Weevil Adult	1 1/3 (1 lb ai)	If applying by air, apply in a minimum of 2 gals of water by aircraft. Additional applications may be made when indicated by insect infestations and local or 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 24 hours. Harvesting is prohibited for 3 days after application.</li> <li>Do not apply more than 7 1/8 lb Imidan 70-W (5 lbs ai) per acre per year.</li> <li>Do not make more than 5 applications per acre per year.</li> <li>Do 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 3 days after application of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>For <b>groundboom and airblast applications</b> during the <b>growing season</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>groundboom and airblast applications</b> during the <b>dormant season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>aerial applications</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> </ul>		
<b>BLUEBERRIES</b> (Low Bush) (3)	Blueberry Maggot, Cherry Fruitworm, Cranberry Fruitworm, Flea Beetle, Grasshopper, Japanese Beetle, Plum Curculio, Obliquebanded Leafroller, Redbanded Leafroller, Redstriped Fireworm, Rose Chafer, Sawfly, Spanworm, Spotted Wing Drosophila, Strawberry Root Weevil Adult	1 1/3 (1 lb ai)	If applying by air, apply in a minimum of 2 gals of water by aircraft. Additional applications may be made when indicated by insect infestations and local or 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 3 days.</li> <li>Do not apply more than 5 1/8 lb Imidan 70-W (3.63 lbs ai) per acre per year.</li> <li>Do not make more than 5 applications per acre 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>CRANBERRIES</b> (14) (Except California)	Fireworms, Cranberry Fruitworm, Cranberry Weevil, Spanworms, Gypsy Moth, <i>Sparganothis</i> Fruitworm, Cutworms, Blossomworm, False Armyworm, Cranberry Tipworm Midge	1 1/3 – 4 (1 – 2.8 lbs ai)  (not to exceed 15.6 lbs of product or 10.92 lbs ai 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 by ground and 2 gals per acre by air.
	<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>		

Figure 1 consists of a 4x4 grid of 16 small plots. Each plot contains a different arrangement of black dots, representing the spatial distribution of 100 simulated individuals. The dots are scattered across the plots in various patterns, some clustered and some more dispersed, illustrating the different spatial patterns that can be generated by the model.

**FRUIT AND NUT CROPS (continued)**

CROP	PEST	USE RATE lbs/acre	COMMENTS
<b>CHERRIES</b> Sour (Tart) (7)	Cherry Fruit Fly, Fruittree Leafroller, Japanese Beetle, Peach Twig Borer, Plum Curculio, Rose Chafer, Spotted Wing Drosophila, San Jose Scale	2 1/8 (1.5 lbs ai)  (or 3/4 lb per 100 gals not to exceed 2 1/8 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 (1 lb 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 7 1/2 lbs Imidan 70-W (5.25 lbs ai) per acre per year.</li> <li>Do 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>GRAPES</b> (East of the Rockies) (See text for PHI)	Rose Chafer, Banded Grape Bug, Flea Beetle, Grape Berry Moth, Grape Cane Borer, Grape Cane Girdler, Grape Leafhopper, Grape Mealybug, Japanese Beetle, Lygocoris Bug, Redbanded Leafroller, Spotted Wing Drosophila	1 1/3 – 2 1/8 (1 – 1.5 lbs ai)	For grape berry moth, apply prebloom, postbloom, first and late cover sprays as needed. For grape leafhopper, apply when most nymphs hatch (generally coincides with grape berry moth). Use higher rates for control of Japanese beetle. Spray both sides of each row, and tops of vines to assure adequate coverage of fruit and foliage. Repeat applications as necessary in accordance with insect infestations and local and State spray programs.
	<ul style="list-style-type: none"> <li>Do not apply within 7 days of harvest when using rates of 1 1/3 lbs (1 lb ai) per acre or less.</li> <li>Do not apply within 14 days of harvest when using rates greater than 1 1/3 lbs (1 lb ai) per acre.</li> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 14 days. All hand labor tasks, including hand harvesting, are prohibited for 14 days after application. For application rates of 1 1/3 lbs (1 lb ai) or less, mechanical harvesting is permitted at 7 days after application.</li> <li>Do not apply more than 6 1/2 lbs Imidan 70-W (4.55 lbs ai) per acre per year.</li> <li>Do 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 after application of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>For <b>groundboom and airblast applications</b> during the <b>growing season</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>groundboom and airblast applications</b> during the <b>dormant season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>Aerial application is prohibited.</li> </ul>		

**FRUIT AND NUT CROPS (continued)**

CROP	PEST	USE RATE lbs/acre	COMMENTS
<b>GRAPES</b> <b>(West of the Rockies)</b> (See text for PHI)	Grape Mealybug, Vine Mealybug Spotted Wing Drosophila	2 1/8 (1.5 lbs ai)	Apply prior to bud break as a delayed dormant treatment in combination with oil or spreader sticker. Use adequate volume to ensure thorough coverage.
	Grape Mealybug, Vine Mealybug, Grape Leafroller, Omnivorous Leafroller, Western Grapeleaf Skeletonizer Spotted Wing Drosophila	1 1/3 (1 lb ai)	Apply as early as first sizing spray and repeat at 10 - 14 day intervals as needed to provide additional insect control. Adequately cover fruit and foliage when insects are present.
	Grape Leafroller, Omnivorous Leafroller, Western Grapeleaf Skeletonizer Spotted Wing Drosophila	1 - 2 1/8 (0.7 - 1.5 lbs ai)	Adequately cover fruit and foliage when insects are present. When applying more than 1 1/3 lbs of Imidan 70-W (1 lb ai), use proper spray volume pressure and nozzling in order to minimize the possibility of visible residue associated with wettable powder.
	<ul style="list-style-type: none"> <li>Do not apply within 7 days of harvest when using rates of 1 1/3 lbs (1 lbs ai) per acre or less.</li> <li>Do not apply within 14 days of harvest when using rates greater than 1 1/3 lbs (1 lbs ai) per acre.</li> <li>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 14 days.</li> <li>Do not apply more than 6 1/2 lbs Imidan 70-W (4.55 lbs ai) per acre per year.</li> <li>After an application of Imidan 70-W during the growing season, do not enter or allow entry into treated areas to perform hand harvesting tasks or any other hand labor tasks EXCEPT for scouting, hand weeding, and irrigating for the remainder of that growing season. Note: scouting, hand weeding, and irrigating tasks are prohibited until the REI has expired.</li> <li>Do 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 after application of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>For <b>groundboom and airblast applications</b> during the <b>growing season</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>Aerial application is prohibited.</li> <li>Applications during the dormant season are prohibited.</li> </ul>		

FRUIT AND NUT CROPS (continued)

CROP	PEST	USE RATE lbs/acre	COMMENTS
NECTARINES (East of the Rockies) (14)	Apple Maggot, Japanese Beetle, Omnivorous Leafroller, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Redbanded Leafroller, Rose Chafer, San Jose Scale, Spotted Wing Drosophila	2 1/8 – 4 1/4 (1.5 – 3 lbs ai)  (or 3/4 - 1 lb per 100 gals not to exceed 4 1/4 lbs product or 3 lbs ai per acre)	For heavy insect infestations use higher dosage rates (4 1/4 lbs product or 3 lbs ai per acre). 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 4 days. Harvesting is prohibited for 14 days after application.</li> <li>Do not apply more than 13 lbs Imidan 70-W (9 lbs ai) per acre per year.</li> <li>Do not use Omite® in combination with Imidan 70-W on late maturing nectarine varieties as fruit injury may result.</li> <li>Do 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 of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>Applications during the dormant season are prohibited.</li> <li>For <b>groundboom and airblast applications</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>aerial applications</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> </ul>
NECTARINES (West of the Rockies) (14)	Apple Maggot, Japanese Beetle, Omnivorous Leafroller, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Redbanded Leafroller, Rose Chafer, San Jose Scale, Spotted Wing Drosophila	2 1/8 – 4 1/4 (1.5 – 3 lbs ai)  (or 3/4 - 1 lb per 100 gals not to exceed 4 1/4 lbs product or 3 lbs ai per acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (4 1/4 lbs product or 3 lbs ai per acre). 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. Harvesting is prohibited for 14 days after application.</li> <li>Do not apply more than 13 lbs Imidan 70-W (9 lbs ai) per acre per year.</li> <li>After an application of Imidan 70-W during the growing season, do not enter or allow entry into treated areas to conduct thinning tasks for the remainder of that growing season.</li> <li>After an application of Imidan 70-W during the dormant season, do not enter or allow entry into treated areas to conduct pruning tasks or any other hand labor tasks for the remainder of that dormant season.</li> <li>Do not use Omite® in combination with Imidan 70-W on late maturing nectarine varieties as fruit injury may result.</li> <li>Do 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 of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>For <b>groundboom and airblast applications</b> during the <b>growing season</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>groundboom and airblast applications</b> during the <b>dormant season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>aerial applications during the growing season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>During the dormant season, aerial applications are prohibited.</li> </ul>

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FRUIT AND NUT CROPS (continued)

CROP	PEST	USE RATE lbs/acre	COMMENTS
PEACHES (East of the Rockies) (14)	Japanese Beetle, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Rose Chafer, San Jose Scale, Spotted Wing Drosophila	2 1/8 - 4 1/4 (1.5 - 3 lbs ai)  (or 3/4 - 1 lb per 100 gals not to exceed 4 1/4 lbs product or 3 lbs ai per acre)	For heavy insect infestations use higher dosage rates (4 1/4 lbs product or 3 lbs ai per acre). 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 4 days. Harvesting is prohibited for 14 days after application.</li> <li>Do not apply more than 17 lbs Imidan 70-W (12 lbs ai) per acre per crop season.</li> <li>Do 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 of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>For <b>groundboom and airblast applications</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>aerial applications</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>Applications during the dormant season are prohibited.</li> </ul>
PEACHES (West of the Rockies) (14)	Japanese Beetle, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Rose Chafer, San Jose Scale, Spotted Wing Drosophila	2 1/8 - 4 1/4 (1.5 - 3 lbs ai)  (or 3/4 - 1 lb per 100 gals not to exceed 4 1/4 lbs product or 3 lbs ai per acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (4 1/4 lbs product or 3 lbs ai per acre). 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. Harvesting is prohibited for 14 days after application.</li> <li>After an application of Imidan 70-W during the growing season, do not enter or allow entry into treated areas to conduct thinning tasks for the remainder of that growing season.</li> <li>After an application of Imidan 70-W during the dormant season, do not enter or allow entry into treated areas to conduct pruning tasks or any other hand labor tasks for the remainder of that dormant season.</li> <li>Do not apply more than 17 lbs Imidan 70-W (12 lbs ai) per acre per crop season.</li> <li>Do 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 of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>Applications during the dormant season are prohibited.</li> <li>For <b>groundboom and airblast applications</b> during the <b>growing season</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>groundboom and airblast applications</b> during the <b>dormant season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>aerial applications during the growing season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>During the dormant season, aerial applications are prohibited.</li> </ul>

**FRUIT AND NUT CROPS (continued)**

CROP	PEST	USE RATE lbs/acre	COMMENTS
PEARS (7)	Apple Maggot, Codling Moth, Elm Spanworm, Fruittree Leafroller, Gypsy Moth, Japanese Beetle, Mealybug, Plum Curculio, Redbanded Leafroller, Rose Chafer, Spotted Wing Drosophila	2 1/8 – 5 3/4 (1.5 – 4 lbs ai)  (or 3/4 - 1 lb per 100 gals not to exceed 5 3/4 lbs product or 4 lbs ai per acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (3 1/2 – 5 3/4 lbs product or 2.45 - 4 lbs ai per acre). Repeat applications as necessary in accordance with insect infestations and local and State spray recommendations.
	<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>Do not apply more than 16 lbs Imidan 70-W (11 lbs ai) per acre per year.</li> <li>Do 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 of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>For <b>groundboom and airblast applications</b> during the <b>growing season</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>groundboom and airblast applications</b> during the <b>dormant season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>aerial applications during the growing season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>During the dormant season, aerial applications are prohibited.</li> </ul>		
PECANS (14)	Black Pecan Aphid, Fall Webworm*, Hickory Shuckworm, Pecan Nut Casebearer, Pecan Weevil*, Southern Green Stink Bug*, Spittlebug	2 – 3 1/8 (1.4 – 2 lbs ai)  (or 1 lb per 100 gals not to exceed 3 1/8 lbs product or 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 1/8 lbs (2 lbs ai) per acre 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 10 lbs Imidan 70-W (7 lbs ai) per acre per year.</li> <li>Do not prune for 7 days following an application of Imidan 70-W.</li> <li>Nuts must be harvested mechanically.</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>		

$$\begin{array}{r} 17 \\ \hline 41 \end{array}$$

FRUIT AND NUT CROPS (continued)

CROP	PEST	USE RATE lbs/acre	COMMENTS
PLUMS, PRUNES (East of the Rockies) (7)	Apple Maggot, Codling Moth, Japanese Beetle, Omnivorous Leafroller, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Redhumped Caterpillar, Redbanded Leafroller, Rose Chafer, San Jose Scale, Spotted Wing Drosophila	2 1/8 - 4 1/4 (1.5 - 3 lbs ai)  (o 3/4 - 1 lb per 100 gals not to exceed 4 1/4 lbs product or 3 lbs ai per acre)	For heavy insect infestations use higher dosage rates (3 1/2 - 4 1/4 lbs Imidan 70-W or 2.45 - 3 lbs ai per acre). 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. Hand harvesting is prohibited for 14 days after application. Mechanical harvesting is permitted at 7 days after application.</li> <li>Do not apply more than 13 lbs Imidan 70-W (9 lbs ai) per acre per year.</li> <li>Do 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 of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>For <b>groundboom and airblast applications</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>aerial applications</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>Applications during the dormant season are prohibited.</li> </ul>
PLUMS, PRUNES (West of the Rockies) (7)	Apple Maggot, Codling Moth, Japanese Beetle, Omnivorous Leafroller, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Redhumped Caterpillar, Redbanded Leafroller, Rose Chafer, San Jose Scale, Spotted Wing Drosophila	2 1/8 - 4 1/4 (1.5 - 3 lbs ai)  (or 3/4 - 1 lb per 100 gals not to exceed 4 1/4 lbs product or 3 lbs ai per acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (3 1/2 - 4 1/4 lbs Imidan 70-W or 2.45 - 3 lbs ai per acre). 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. Hand harvesting is prohibited for 14 days after application. Mechanical harvesting is permitted at 7 days after application.</li> <li>Do not apply more than 13 lbs Imidan 70-W (9 lbs ai) per acre per year.</li> <li>After an application of Imidan 70-W during the growing season, do not enter or allow entry into treated areas to conduct hand-thinning tasks for the remainder of that growing season.</li> <li>After an application of Imidan 70-W during the dormant season, do not enter or allow entry into treated areas to conduct pruning tasks or any other hand labor tasks for the remainder of that dormant season.</li> <li>Do 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 of this product.</li> <li>Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.</li> <li>For <b>groundboom and airblast applications</b> during the <b>growing season</b>, do not apply this product within 25 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>groundboom and airblast applications</b> during the <b>dormant season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>For <b>aerial applications during the growing season</b>, do not apply this product within 50 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including but not limited homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.</li> <li>During the dormant season, aerial applications are prohibited.</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	4 1/3 - 8 1/2 (3 - 6 lbs ai)	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>Do not prune for 7 days following an application of Imidan 70-W.</li> <li>Do not apply more than 17 1/7 lbs Imidan 70-W (12 lbs ai) per acre per year.</li> <li>Do not apply more than 8 1/2 lbs Imidan 70-W (6 lbs ai) 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 (0.7 lbs ai)  All other alfalfa growing regions: 1 - 1 1/3 (0.7 - 1 lb ai)	Apply in a minimum of 10 gals of water by ground equipment (20 gals for dense stands) or 5 gals of water by aircraft. Consult your local farm advisor regarding the proper timing of application. Larvae should be sprayed when they are actively feeding. For application by irrigation systems, apply specified dosage per acre. Follow all directions under the GENERAL CHEMIGATION section of this label. * For control of pea aphid and other alfalfa pests, use Imidan 70-W in tank mix combination with other insecticides registered for use on alfalfa. ** Recommended for potato leafhopper in the Northeast and North Central States only.
	<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 1/8 - 2 3/4 (1.5 - 2 lbs ai)	Apply in 10 - 50 gals of water per acre (20 - 50 gals in dense stands) by ground equipment or in 5 - 10 gals of water by aircraft.
	<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 graze livestock in treated areas.</li> <li>Do not harvest for food or feed.</li> </ul>		
<b>PEAS, Fresh and Dry (Pacific Northwest only)</b> (18)	Pea Weevil, Pea Leaf Weevil	1 - 1 1/3 (0.7 - 1 lb ai)	Apply in a minimum of 5 gals of water per acre by aircraft or 20 gals of water by ground equipment. 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.
	<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 4 lbs Imidan 70-W (2.8 lbs ai) per acre per crop season.</li> <li>Do not graze or feed forage to livestock within 7 days of harvest.</li> <li>Do not cut treated fresh pea forage for hay within 10 days of application.</li> </ul>		
<b>POTATOES</b> (7)	Colorado Potato Beetle, European Corn Borer, Potato Flea Beetle, Potato Leafhopper, Potato Tuber Moth	1 1/3 (1 lb ai)	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. For application by irrigation systems, apply specified dosage per acre. Follow all directions under the CHEMIGATION section of this label.
	<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 6 2/3 lbs Imidan 70-W (4.67 lbs ai) per acre per crop season.</li> <li>Do not apply within 7 days of harvest.</li> <li>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>		

FIELD, FORAGE, AND VEGETABLE CROPS (continued)

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 1/3 (1 lb ai)	Foliar applications: Apply 1 1/3 lbs of Imidan 70-W (1 lb ai) in a minimum of 2 gallons of water per acre as a full coverage spray. Plantbed treatment: Apply 1 1/3 lbs (1 lb ai) 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 6 2/3 lbs of Imidan 70-W (4.67 lbs ai) 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 1/3 – 1 1/2 lbs (1 – 1.05 lbs ai) per acre <b>OR</b> For individual trees 1 1/3 lbs (1lb ai) per 100 gals	Apply in sufficient water to achieve thorough and complete coverage through aerial or ground application equipment. 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 70-W 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> </ul>		
<b>CONIFER TREE SEED ORCHARDS</b>	Seedworms, Coneworms, Seed Bugs, Mealybugs	1 1/3 – 1 1/2 lbs (1 – 1.05 lbs ai) 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 up to 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> </ul>		
<b>CONIFER SEEDLINGS</b> (White, Slash and Loblolly)	Pales Weevil ( <i>Hylobius pales</i> ), Pitch Eating Weevil ( <i>Pachylobius picivorus</i> )	4% Top Dip Solution  Use this Amount of Imidan  <u>To make</u> <u>70-W</u> <u>a.i.</u> 5 gals   2 1/2 lbs   1.75 lbs 30 gals   14 lbs   9.8 lbs 50 gals   24 lbs   16.8 lbs 100 gals   48 lbs   33.6 lbs	Use Imidan 70-W 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 70-W 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 70-W 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 70-W 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	3/4 - 1 lb (0.5 - 0.7 lbs ai) 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)

CROP	PEST	USE RATE lbs/acre	COMMENTS
ORNAMENTAL PLANTS AND NONBEARING FRUIT AND NUT TREES AND VINES (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	3/4 - 1 lb (0.5 - 0.7 lbs ai) per 100 gals	Apply in sufficient water to achieve thorough and complete coverage through aerial or ground application equipment. 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.

**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. Completely empty bag into application equipment. Then 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:

1. Sweep up spilled material being careful not to create dust.
2. Place sweepings in an open drum.
3. 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.
4. Spread a suitable absorbent such as clay, sawdust, or kitty litter on the slurried liquid. Shovel absorbed material into an open drum.
5. Repeat if necessary.
6. 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.

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