10163-184 08/12/2005 1/12

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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Ms. Rebecca A. Lamas, Registration Specialist
Gowan Company
P.O. Box 5569
Yuma, AZ 85366-5569

AUG 12 2005

Subject: Revised Phosmet Labels in accordance with the Agency Interim Reregistration Eligibility Decision (IRED) Document.
Product Name: Imidan 70WSB
EPA Registration Number: 10163-184
Date of submission: March 2, 2005

Dear Ms. Lamas;

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable subject to the comments listed below.

1. Within the **Directions for Use**, under the subheadings "**Use Recommendations Fruit and Nut Crops**" (Page 4) revise the following statement:

"**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 manufacturers label recommendations." by adding the following sentence in bold type face at the end: "**Pruning must occur before any dormant treatments of Phosmet.**" Refer to page 108 of the IRED document.

In addition, five copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of your draft label is provided with this letter for your files. If you have any questions, you may contact Richard J. Gebken, at (703) 305-6701.

Sincerely,

George LaRocca
Product Manager 13
Insecticide Branch
Registration Division (7505C)

Enclosure

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Imidan® 70-WSB

Agricultural Insecticide

(Water Soluble Bags)

	% By Wt.
ACTIVE INGREDIENT: Phosmet	
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 inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
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.
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.
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, inhaled, or absorbed through the skin. Do not breathe dust or spray mist. Do not get in eyes, on skin, or on clothing.

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.

ACCEPTED
with COMMENTS
In EPA Letter Dated
AUG 12 2005
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.
10163-184

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

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

Applicators performing pine seedling dipping must wear:

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

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

NET CONTENTS _____ LBS.

EPA Reg. No. 10163-184
EPA Est. No. 67545-AZ-1

Gowan®

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

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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

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:

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

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

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

Applicators using airblast equipment and flaggers supporting aerial applications must wear:

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

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

ENVIRONMENTAL HAZARDS

This chemical can contaminate surface water through 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. Limit spray drift.

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

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

USE PRECAUTIONS

Read all precautions and directions before using. Apply this product only as specified on this label.

Imidan 70-WSB 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-WSB.

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

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

For ground boom applications:

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

For overhead chemigation:

Apply only when wind speed is 10 mph or less.

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 is10 mph or less at the application site.

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For aerial applications:
The boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Apply only when the wind speed is10 mph or less. Use a coarse or coarser spray for standard nozzles (ASAE definition 572), or a volume median diameter (VMD) of 385 microns or greater for spinning atomizer nozzles. If the application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy. 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 necessary to control drift.

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.
Notify workers of the application by warning them orally and by posting warning signs at entrances to treated area.
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-WSB 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-WSB 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-WSB 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-WSB 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-WSB over a 30-60 minute period. Shut off injection equipment. Continue to operate irrigation system until Imidan 70-WSB has been cleared from the last sprinkler head. Imidan 70-WSB can be injected at the end of the irrigation cycle or as a separate application. Do not use end guns. Imidan 70-WSB 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-WSB 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 is an organophosphate insecticide. Based on historical use patterns in some areas, certain pest species listed on this label may have developed resistance to organophosphate insecticides. Consult your local agricultural advisor, State Cooperative Extension Service, or regional Gowan Company representative for recommendations.

USE LIMITATIONS

Do not exceed the maximum rate of Imidan 70-WSB per acre or the time limitations specified for the individual crops.

USE RECOMMENDATIONS
FRUIT AND NUT CROPS

DORMANT SPRAYS: Imidan 70-WSB 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-WSB may be used in combination with spray oils; always follow spray oil manufacturer's label recommendations.

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

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

PREHARVEST INTERVAL

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

FRUIT AND NUT CROPS

CROP	PEST	USE RATE lbs./acre	COMMENTS
ALMONDS (30)	Peach Twig Borer	4 ⅓ - 4½	Limit use on bearing almonds to one foliar application per season.
	• Do not prune for 7 days following an application of Imidan. • Nuts must be harvested mechanically. • Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days.		

FRUIT AND NUT CROPS (continued)

CROP	PEST	USE RATE lbs./acre	COMMENTS
ALMONDS (California only) (30)	Peach Twig Borer, Navel Orangeworm	4 ⅓ - 5 ⅓	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 ⅓ - 5 ⅓	For control of scale insects during dormant application, tank mix recommended rate of Imidan with dormant spray oil. Follow oil manufacturer's use directions. Add oil to the spray tank last, after buffer and Imidan 70-WSB have been added.
	• Do not make more than 2 applications per season as a foliar spray. • Do not prune for 7 days following an application of Imidan. • Nuts must be harvested mechanically. • Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days.		
APPLES (7) **CRABAPPLES** (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	2 ⅙ - 5 ⅓ (or ¾ - 1 lb. per 100 gals. not to exceed 5 ⅓ lbs./acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (3 ½-5 ⅓ lbs./acre). Repeat applications as necessary in accordance with insect infestations and local and State spray programs.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply more than 30 lbs. Imidan 70-WSB per acre per crop season. • For use on crabapples in California only. • The user shall not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own," "U-pick," or similar operations, to enter a treated area for 14 days after application.		
APPLES - Tank Mix with Methomyl (Lannate®) (Northeast only) (8)	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, Tufted Apple Budmoth, Variegated Leafroller, White Apple Leafhopper	1 ⅓ - 2 ⅔ lbs. of Imidan 70-WSB plus ½ - 1 lb. 90% methomyl water soluble powder or 1½ - 3 pints 24% methomyl LV (⅓ - ⅔ lb. Imidan 70-WSB 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.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not use on Early McIntosh or Wealthy varieties. • Do not graze/feed livestock under treated trees for 10 days after application. • Do not apply more than 30 lbs. per acre of Imidan 70-WSB per crop season. • The user shall not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own," "U-pick," or similar operations, to enter a treated area for 14 days after application.		
APRICOTS (14)	Apple Maggot, Fruittree Leafroller, Japanese Beetle, Orange Tortrix, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Redbanded Leafroller, Rose Chafer, Western Tussock Moth	2 ⅙ - 4 ¼ (or ¾ - 1 lb. per 100 gals. not to exceed 4 ¼ lbs./acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (4 ¼ lbs./acre). Repeat applications as necessary in accordance with insect infestations and local and State spray programs.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply more than 13 lbs. Imidan 70-WSB per acre per year. • The user shall not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own," "U-pick," or similar operations, to enter a treated area for 14 days after application.		

FRUIT AND NUT CROPS (continued)

CROP	PEST	USE RATE lbs./acre	COMMENTS
BLUEBERRIES (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, Strawberry Root Weevil Adult	1 1/3	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.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 24 hours. • Do not apply more than 7 1/8 lb Imidan 70-WSB per acre per year. • Do not make more than 5 applications per acre per year. • Do not apply within 3 days of harvest.		
BLUEBERRIES (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, Strawberry Root Weevil Adult	1 1/3	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
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply more than 5 1/8 lb Imidan 70-WSB per acre per year. • Do not make more than 5 applications per acre per year. • Do not apply within 3 days of harvest.		
CRANBERRIES (14) (Except California)	Fireworms, Cranberry Fruitworm, Cranberry Weevil, Spanworms, Gypsy Moth, *Sparganothis* Fruitworm, Cutworms, Blossomworm, False Armyworm, Cranberry Tipworm Midge	1 1/3 – 4 (not to exceed 15.6 lbs. of Imidan 70-WSB 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.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply within 14 days of harvest. • May need to use higher dosage for Fruitworm and Cranberry Weevil control. • Consult with your pest management advisor or local Extension Service for specific recommendations on rates and timing.		
CHERRIES Sour (Tart) (7)	Cherry Fruit Fly, Fruittree Leafroller, Japanese Beetle, Peach Twig Borer, Plum Curculio, Rose Chafer, San Jose Scale	2 1/8 - 2½ (or ¾ lb. per 100 gals. not to exceed 2 ½ lbs./acre)	Repeat applications as necessary in accordance with insect infestations and local and State spray programs.
	Syneta Beetle	1 1/3	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.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply more than 7 ½ lbs. Imidan 70-WSB per acre per year. • The user shall not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own," "U-pick," or similar operations, to enter a treated area for 14 days after application.		
GRAPES (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	1 1/3 - 2 1/8	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.
	• Do not apply within 7 days of harvest when using rates of 1 1/3 lbs. per acre or less. • Do not apply within 14 days of harvest when using rates greater than 1 1/3 lbs. per acre. • Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 14 days. • Do not apply more than 6 ½ lbs. Imidan 70-WSB per acre per year.		

FRUIT AND NUT CROPS (continued)

CROP	PEST	USE RATE lbs./acre	COMMENTS
GRAPES (West of the Rockies) (See text for PHI)	Grape Mealybug, Vine Mealybug	2 ⅛	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 Leaffolder, Omnivorous Leafroller, Western Grapeleaf Skeletonizer	1 ⅓	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 Leaffolder, Omnivorous Leafroller, Western Grapeleaf Skeletonizer	1 - 2 ⅛	Adequately cover fruit and foliage when insects are present. When applying more than 1 ⅓ lbs. of Imidan 70-WSB, use proper spray volume pressure and nozzling in order to minimize the possibility of visible residue associated with wettable powder.
	• Do not apply within 7 days of harvest when using rates of $1^1/_3$ lbs. per acre or less. • Do not apply within 14 days of harvest when using rates greater than $1^1/_3$ lbs. per acre. • Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 14 days. • Do not apply more than 6 ⅔ lbs. Imidan 70-WSB per acre per year.		
NECTARINES (14)	Apple Maggot, Japanese Beetle, Omnivorous Leafroller, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Redbanded Leafroller, Rose Chafer, San Jose Scale	2 ⅛ - 4 ¼ (or ¾ -1 lb. per 100 gals. not to exceed 4 ¼ lbs./acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (4 ¼ lbs./acre). Repeat applications as necessary in accordance with insect infestations and local and State spray programs.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply more than 13 lbs. Imidan 70-WSB per acre per year. • Do not use Omite® in combination with Imidan 70-WSB on late maturing nectarine varieties as fruit injury may result. • The user shall not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own," "U-pick," or similar operations, to enter a treated area for 14 days after application.		
PEACHES (14)	Japanese Beetle, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Rose Chafer, San Jose Scale	2 ⅛ - 4 ¼ (or ¾ -1 lb. per 100 gals. not to exceed 4 ¼ lbs./acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (4 ¼ lbs./acre). Repeat applications as necessary in accordance with insect infestations and local and State spray programs.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply more than 17 lbs. Imidan 70-WSB per acre per crop season. • The user shall not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own," "U-pick," or similar operations, to enter a treated area for 14 days after application.		
PEARS (7)	Apple Maggot, Codling Moth, Elm Spanworm, Fruittree Leafroller, Gypsy Moth, Japanese Beetle, Mealybug, Plum Curculio, Redbanded Leafroller, Rose Chafer	2 ⅛ – 5 ½ (or ¾ - 1 lb. per 100 gals. not to exceed 7 ⅛ lbs./acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (3½ - 7 ⅛ lbs./acre). Repeat applications as necessary in accordance with insect infestations and local and State spray recommendations.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply more than 16 lbs. Imidan 70-WSB per acre per year. • The user shall not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own," "U-pick," or similar operations, to enter a treated area for 14 days after application.		

FRUIT AND NUT CROPS

CROP	PEST	USE RATE lbs./acre	COMMENTS
PECANS (14)	Black Pecan Aphid, Fall Webworm*, Hickory Shuckworm, Pecan Nut Casebearer, Pecan Weevil*, Southern Green Stink Bug*, Spittlebug	2 - 3 ⅛ (or 1 lb. per 100 gals. not to exceed 3 ⅛ lbs./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 ⅛ lbs. per acre and repeat application at 7 day intervals. *Adequate control may not be achieved when heavy populations are present.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply more than 10 lbs. Imidan 70-WSB per acre per year. • Do not prune for 7 days following an application of Imidan. • Nuts must be harvested mechanically. • Do not graze or feed livestock on cover crops grown in treated pecan groves.		
PISTACHIOS (California only) (14)	Navel Orangeworm, Obliquebanded Leafroller, Peach Twig Borer	4 ⅓ - 5 ⅔	For optimum navel orangeworm control in the spring, use an appropriate navel orangeworm monitoring system to determine proper timing of the spray. Late season treatment for navel orangeworm must be applied before hull split reaches 10%.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply more than 17 1/8 lbs. Imidan 70-WSB per acre per year. • Do not prune for 7 days following an application of Imidan. • Do not apply more than 5 ⅔ lbs. per acre per season as a foliar spray. • Nuts must be harvested mechanically. • Do not allow livestock to graze or feed on cover crops in treated pistachio groves.		
	DORMANT SPRAY: Peach Twig Borer, San Jose Scale	3 - 4 ⅓	Apply as a full coverage dormant spray with a suitable spray oil according to oil manufacturer's specifications. Thorough coverage is essential for effective pest control.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply more than 17 1/8 lbs. Imidan 70-WSB per acre per year. • Do not prune for 7 days following an application of Imidan. • Do not apply more than 5 ⅔ lbs. per acre per season as a foliar spray. • Nuts must be harvested mechanically. • Do not allow livestock to graze or feed on cover crops		
PLUMS, PRUNES (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	2 ⅛ - 4 ¼ (or ¾ - 1 lb. per 100 gals. not to exceed 4 ¼ lbs./acre)	For heavy insect infestations and areas west of the Rockies, use higher dosage rates (3½ - 4 ¼ lbs./acre). Repeat applications as necessary in accordance with insect infestations and local and State spray programs.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 3 days. • Do not apply more than 13 lbs. Imidan 70-WSB per acre per year. • The user shall not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own," "U-pick," or similar operations, to enter a treated area for 14 days after application.		
WALNUTS, FILBERTS, and OTHER NUTS (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 ⅓ - 8 ½	For heavy insect infestations, use higher dosage rates. Repeat applications as necessary in accordance with insect infestations and local and State spray programs.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 7 days. • Nuts must be harvested mechanically. • Do not prune for 7 days following an application of Imidan. • Do not apply more than 17 1/7 lbs. Imidan 70-WSB per acre per year. • Do not apply more than 8 ½ lbs. per acre per application or more than 5 times per season. • Do not apply after hull split.		

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FIELD, FORAGE, AND VEGETABLE CROPS

CROP	PEST	USE RATE lbs./acre	COMMENTS
ALFALFA (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 All other alfalfa growing regions: 1 - 1 1/3	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 in tank mix combination with other insecticides registered for use on alfalfa. ** Recommended for potato leafhopper in the Northeast and North Central States only.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 5 days. • Do not apply more than once per cutting. • Do not apply to alfalfa in the bloom period. • Do not use with latex or pineolene-based adjuvants or any agricultural sticker or extender. • In Arizona, California, and Nevada, do not graze or cut for hay within 14 days of application. • In all other alfalfa growing regions, do not graze or cut for hay within 7 days of application.		
COTTON (Except San Joaquin Valley, CA) (21)	Overwintering generation of Boll Weevil	1/3 - 3/4 (ground) 3/4 (air)	Apply in a minimum of 5 gals. of water for ground applications or in a minimum of 3 gals. of water for aerial applications. For overwintering boll weevils, make 2 applications. The first application should be made at the 1/3 grown square stage and the second 5 to 7 days later. Use the higher rate under heavy infestations. For first, second,
	First, second, or third generation Boll Weevil	1 - 1 1/3	and third generation boll weevil, make applications at intervals from 3 to 7 days depending upon weevil population and weevil migration in fields. Use the higher rates for heavy infestations. Check infestations regularly.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 5 days. • Do not exceed 14 lbs. of Imidan 70-WSB per acre per season. • Do not graze or feed forage to livestock. • Use on cotton prohibited in Copiah and Clairborne Counties, MS; Lauderdale and Madison Counties, AL; and Lawrence County, TN. • Do not apply within one mile of coastal or estuarine waters. • Do not apply within 100 feet of aquatic habitats.		
FIELD MARGINS (margins of cultivated fields and forage crop sites listed on this label)	Grasshopper	2 1/4 - 2 3/4	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.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 5 days. • Do not graze livestock in treated areas. • Do not harvest for food or feed.		
PEAS, Fresh and Dry (Pacific Northwest only) (18)	Pea Weevil, Pea Leaf Weevil	1 - 1 1/3	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.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 5 days. • Do not apply more than 4 lbs. Imidan 70-WSB per acre per crop season. • Do not graze or feed forage to livestock within 7 days of harvest. • Do not cut treated fresh pea forage for hay within 10 days of application.		
POTATOES (7)	Colorado Potato Beetle, European Corn Borer, Potato Flea Beetle, Potato Leafhopper	1 1/3	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.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 5 days. • Do not apply more than 6 2/3 lbs. Imidan 70-WSB per acre per crop season. • Do not apply within 7 days of harvest. • Potatoes must be harvested mechanically.		

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FIELD, FORAGE, AND VEGETABLE CROPS

CROP	PEST	USE RATE lbs./acre	COMMENTS
SWEET POTATOES (7)	Sweet Potato Weevil, Banded Cucumber Beetle, Whitefringed Beetle, suppression of White Grub and Wireworm	1 1/3	Foliar applications: Apply 1 1/3 lbs. of Imidan 70-WSB in a minimum of 2 gallons of water per acre as a full coverage spray. Plantbed treatment: Apply 1 1/3 lbs. in 25-50 gallons of water per acre. Allow a minimum of 10 days between foliar and plantbed re-applications.
	• 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. • Do not make more than 5 applications per season. • Do not apply within 7 days of harvest. • Do not apply more than 6 2/3 lbs. of Imidan 70-WSB per acre per crop season. • Sweet potatoes must be harvested mechanically.		

OTHER USES (NOT FOR HOMEOWNER USE)

CROP	PEST	USE RATE	COMMENTS
CONIFER TREES (Growing in Christmas Tree Nurseries and Plantations)	European Pine Shoot Moth *(Rhyacionia buoliana)*, Gypsy Moth, Nantucket Pine Tip Moth, Pitch Eating Weevil, Pales Weevil, Adult Root Collar Weevil, Sawfly	1 1/3 – 1 1/2 lbs. per acre **OR** For individual trees 1 1/3 lbs. 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-WSB on the needles under high rainfall conditions.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 13 days. • Do not make more than 3 applications per year.		
CONIFER TREE SEED ORCHARDS	Seedworms, Coneworms, Seed Bugs, Mealybugs	1 1/3 – 1 1/2 lbs. 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 3-6 applications as needed.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 13 days. • Do not make more than 3 applications per year.		
CONIFER SEEDLINGS (White, Slash and Loblolly)	Pales Weevil *(Hylobius pales)*, Pitch Eating Weevil *(Pachylobius picivorus)*	4% Top Dip Solution Use this amount of Imidan To make 70-WSB 5 gals. 2½ lbs. 30 gals. 14 lbs. 50 gals. 24 lbs. 100 gals. 48 lbs.	Use Imidan 70-WSB 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-WSB 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-WSB in suspension. Five gals. of solution should be enough to treat 10,000 seedlings.
	• Do not keep Imidan solution overnight. Make up a fresh batch each day that seedlings will be dipped. • 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).		
DECIDUOUS TREES, and **WOODY EVERGREENS**	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	¾ - 1 lb. 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.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 13 days. • Do not make more than 3 applications per year. • Do not apply if rain is expected or before leaf surfaces are dry.		

CROP	PEST	USE RATE	COMMENTS
ORNAMENTAL PLANTS AND NONBEARING FRUIT AND NUT TREES AND VINES (Growing in nurseries, and established ornamental landscape plantings)	Elm Sparnworm, Birch Leafminer, Eastern Tent Caterpillar, Elm Leaf Beetle Larvae. Gypsy Moth, Leafhopper, Magnolia Leafminer, Mealybug, Japanese Beetle, Redhumped Caterpillar, Snails, Slugs, Spring Cankerworm	¾ - 1 lb. 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.
	• Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 24 hours. • Do not make more than 3 applications per year.		

STORAGE AND DISPOSAL

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

STORAGE: Store in a cool, dry place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then 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 LIABILTY 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 recommendations 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. All such risks shall be assumed by the Buyer and User.

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