

# Label Elements and Relatedness -Insecticide

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# User

- Desire to search by pest
- Desire to search by crop
- Need to see all relevant parts of the label
- Need to understand any restrictions, warnings, recommendations
- Need to understand regulatory impacts
  - County specific
  - State specific

# Registrant

- Assurance product will be used correctly
- Assurance product will be used safely
- Ability to provide new uses quickly
- Flexibility

# Regulatory Bodies

- Ability to easily search a label
- Ability to know what is most currently approved label
- Ability to know all “legal” labels
- Want product used correctly and safely
- Ability to enforce use
- Ability to see new uses

# Dissection of a Label for WDL

- Container Label
- Use Directions
- Geographical Restrictions
  - Use directions
  - State registrations
- Related Sections
- Examples

# Container Label

- Specific Requirements dictated by a couple of sections of FIFRA
- Precedent with the NAFTA Label
- Need basic elements
  - Reg No
  - Unique Identifier
  - First Aid
  - Storage and Disposal
  - Environmental Hazards

# Imidan® 70-W

## Agricultural Insecticide

### (Water Soluble Bags)

**ACTIVE INGREDIENT:** Phosmet

N-(Mercaptomethyl) phthalimide, S-(O,O' dimethyl phosphorodithioat

**OTHER INGREDIENTS**

**% By Wt.**

70.0%

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	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
If on skin or clothing	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If in eyes	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If swallowed	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
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.	

### 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

### 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.

### 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.

### 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 slurred 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.**

### 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.

*You must obtain additional labeling from <http://pesticidelabeling.gov> or by calling 1-866-LABELING. You must possess a copy of this additional labeling at the time of application. It is a violation of federal law to use this product in a manner inconsistent with its attached label or the additional labeling obtained in one of the methods listed above.*

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

**Gowan**

Produced For  
Gowan Company

# Crop Search-Grapes

- Pest/Crop/Application specific
  - Rate varies by pest
  - Timing of spray varies by pest
  - Ground vs. aerial applications
  - Preharvest interval varies by rate
  - Reentry interval varies by crop



# Grape use directions

East of the Rockies  
West of the Rockies

Pests	Use Rate	Comments
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 lbs./acre	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
Grape Mealybug, Vine Mealybug	2 1/8 lbs./acre	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	1 1/3 lbs./acre	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	1 – 2 1/8 lbs./acre	Adequately cover fruit and foliage when insects are present. When applying more than 1 1/3 lbs. of Imidan 70-W, 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. per acre or less.</li> <li>• Do not apply within 14 days of harvest when using rates greater than 1 1/3 lbs. 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 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>		

# Stand Alone Items

- These items need to “come up” for a user regardless of the crop directions
  - Personal Protective Equipment requirements
  - Mixer/Loader/Applicator directions and requirements
  - Spray Drift and Chemigation language
  - Product specific requirements –pH
  - Mixing Directions

# 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 Imidan 70-W 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.

# PPE

## **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

# Need Geographic Information

- For Use Directions
- For Endangered Species Map that will be coming by county
- To capture any State Specific information
  - REIs different in CA
  - Geographic areas in NY restricted
  - May not be registered in all states

# On-line searches (Agrian)

Agrian - Label Search - Windows Internet Explorer

http://www.agrian.com/labelcenter/results.cfm

**AGRIAN** QUICK PRODUCT LABEL SEARCH:  [Terms of use](#) [Add to your site](#)

For a more detailed search please click the Advanced tab.

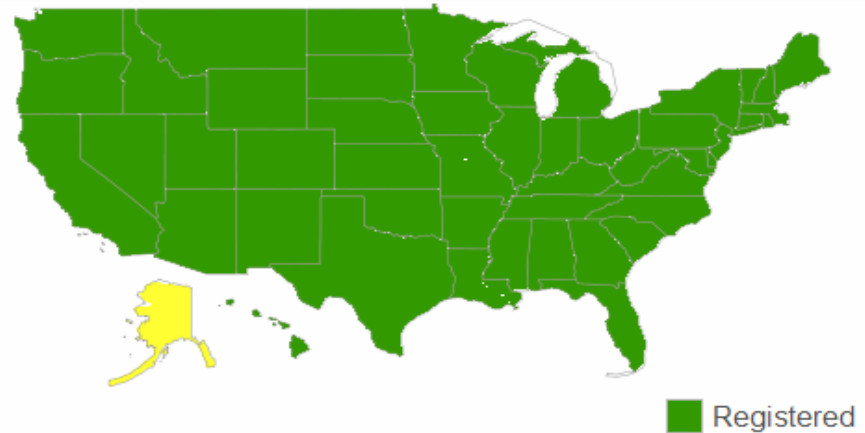
**RESULTS** **DETAILS** **ADVANCED**

2 Results Found For: **imidan**

**Imidan 70-W (new)** **PRINT**

Gowan Company

**General** **Crop Specific** **Documents** **Safety** **Registration**



■ Registered

THE MATERIAL AND CONTENT CONTAINED IN THIS DATABASE IS FOR GENERAL INFORMATION ONLY AND NOT INTENDED TO BE A SUBSTITUTE FOR THE ACTUAL EPA AND/OR STATE APPROVED PESTICIDE LABEL. USERS OF THIS DATABASE MUST READ AND FOLLOW THE ACTUAL PRODUCT PESTICIDE LABEL AFFIXED TO THE PRODUCT CONTAINER (ALSO AVAILABLE DIRECTLY FROM AGRIAN) BEFORE USE OF THE PRODUCT.

Done Internet 100%

- **General** – Restrictions, Package types, etc.
- **Crop Specific** – Use instructions by state, by crop by pest
- **Documents** - All labels & MSDS available (national & state-specific)
- **Safety** - PPE, Re-entry Intervals, DOT shipping, Emergency phone numbers
- **Registration** – visual of registration by state

# On-line searches (Agrian)

Agrian - Label Search - Windows Internet Explorer

http://www.agrian.com/labelcenter/results.cfm

AGRIAN QUICK PRODUCT LABEL SEARCH: imidan

For a more detailed search please click the Advanced tab.

RESULTS DETAILS ADVANCED

Results Found For: imidan

Imidan 70-W (new)

Gowan Company

General Crop Specific Documents Safety Registration

CA Almond Borer, Peach Twig

Re-Entry Interval: 3 Days

Preharvest Interval: 30 Days

Max Applications per Season: 2 Applications

Max Rate per Season: No Maximum

Restricted Methods: No Restrictions

Generic Condition: No Generic Condition

General Rate Information :

Rate: 3lb - 4.33lb / A

Diluent (Air): 5ga - No Max

Diluent (Ground): No Min - No Max

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RESULTS DETAILS ADVANCED

2 Results Found For: imidan

Imidan 70-W (new)

Gowan Company

General Crop Specific Documents Safety Registration

CA Almond Moth, Oriental Fruit

Re-Entry Interval: 3 Days

Preharvest Interval: 30 Days

Max Applications per Season: 2 Applications

Max Rate per Season: No Maximum

Restricted Methods: No Restrictions

Generic Condition: No Generic Condition

General Rate Information :

Rate: 4.33lb - 5.33lb / A

Diluent (Air): 5ga - No Max

Diluent (Ground): No Min - No Max

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# CDMS Recommendation

**RECOMMENDATION**  
Dune Company of Yuma  
2948 South Avenue 7E  
Yuma, AZ 85365  
(928) 344-0040

# 80003  
Date: 02-19-09  
Proposed: 02-19-09  
Expires:

Crop: ALMONDS  
Area: 36; Proposed: 36 Acres  
Apply by: Ground; Gallons / Treated Acre: 40  
Delivery Ticket #:

Grower: **ZTEST 1**  
TEST 1  
Test, 1  
TEST 1  
Applr: INTEGRATED PEST  
MANAGEMENT  
Fldmn: HOUSE ACCOUNT

Purchase Order #:

Pest. Permit#:

Field	Site & Location / California, Yolo	Prop. Acr	Field	Site & Location / California, Yolo	Prop. Acr
CINDY#1		36			
Material	REG.#	R A T E	/100 gal	Band	Mat. Req.
IMIDAN 70-W INSECTICIDE AI: PHOSMET	10163-00169-ZA-00000	4.33 Lbs / Treated Ac GOWAN	10.83	No	155.88 Lb M*
Target Pest: Peach Twig Borer					

## SPECIAL INSTRUCTIONS

IMIDAN: DO NOT MAKE MORE THAN 2 FOLIAR SPRAYS NOR APPLY AFTER 10% HULL SPLIT. Mix info: THE pH OF SPRAY SOLUTION MUST BE CORRECTED BY THE ADDITION OF A SUITABLE BUFFERING/ACIDIFYING AGENT. INSECTICIDAL ACTIVITY MAY BE REDUCED IF pH IS 6 OR HIGHER.

Growth Stage(s): FOLIAR SPRAY \*

**PRECAUTIONS** Signal Word: WARNING

Label Days to Harvest: 30

Avoid Drift, Water Contamination

Non Re-entry Interval: 3 Days

Toxic to Bees \*, Fish

Feed/Graze Treated Area/Crop: No Label Restriction

Plantback Restriction: NO

\*NOTIFY BEEKEEPERS AT LEAST 48 HRS BEFORE APPL.

CRITERIA / ENVIRONMENTAL CHANGES

## APPLY TONITE

The execution of this recommendation certifies that alternative and mitigation measures that would substantially lessen any significant adverse impact on the environment have been considered and, if feasible, adopted.

HOUSE ACCOUNT Signature:

Grower Signature:



# CDMS Recommendation

## RECOMMENDATION CONTINUED - PAGE 2

# 80003

Date: 02-19-09

Crop: ALMONDS  
Grower: ZTEST 1

Field: CINDY#1  
Soil pH: 7  
% Organic Matter: 1  
Texture: Sandy Clay Loam  
Pest. Permit#:

05N02E-1M

Total Area: 36 Acres  
Proposed Area : 36 Acres  
PCA: HOUSE ACCOUNT

### RESTRICTIONS / LIMITATIONS

IMIDAN: This product is incompatible with alkaline materials such as spray lime, lime sulfur, and bordeaux mixtures. These materials will reduce the insecticidal activity of IMIDAN. 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. 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. Apply in adequate spray volumes to provide complete coverage of fruit and foliage. Based on historical use patterns in some areas, certain pest species listed on the label may have developed resistance to organophosphate insecticides. Consult your local agricultural advisor, State Cooperative Extension Service, or regional Gowan Company representative for recommendations. \*\*\*\* 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%. 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. Limit spray drift; turn airblast spray nozzles inward on row ends; and do not apply when bees are in the area.

# Thank You Very Much

Any Questions?