

**STAUFFER CHEMICAL COMPANY**

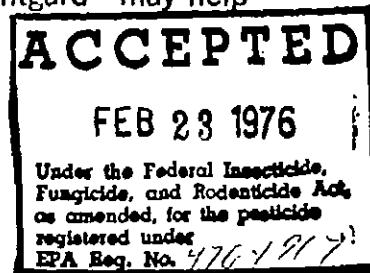
**SUPPLEMENTARY LABEL CLAIM**

**IMIDAN 50-WP and IMIDAN 70-WP  
FOR CONTROL OF PALES WEEVIL AND PITCH-EATING WEEVIL**

The Environmental Protection Agency has registered IMIDAN 50-WP (EPA Reg. No. 476-1917) and IMIDAN 70-WP (EPA Reg. No. 476-2158) for the control of pales weevil (*Hylobius pales*) and pitch-eating weevil (*Pachylobius picivorus*) on pine seedlings. Follow the directions for use given below.

**PINE SEEDLINGS** — For the control of pales weevil (*Hylobius pales*) and pitch-eating weevil (*Pachylobius picivorus*). Use IMIDAN 50-WP or IMIDAN 70-WP as a 4% top dip, dipping down to and including the root collar only. Dip in bundles loose enough to allow solution to penetrate the bundles. Avoid coverage of roots. Swish tops in solution for 10-15 seconds to assure adequate coverage of all top growth. Drain and allow seedlings to dry before planting. Agitate solution frequently to keep IMIDAN wettable powder in suspension. The addition of an extender such as Nu-Film 17\* or Plantgard\* may help to retain the IMIDAN on the foliage under high rainfall conditions.

Wear rubber gloves during treating and planting.



**DILUTION TABLE FOR A 4% TOP DIP:**

TO MAKE	5 gallons	30 gallons	50 gallons	100 gallons
Use this amount of IMIDAN 50-WP.....	3½ lbs.	20 lbs.	33.5 lbs.	67 lbs.
Use this amount of IMIDAN 70-WP.....	2½ lbs.	14 lbs.	24 lbs.	48 lbs.

Agitate frequently to keep IMIDAN in suspension. 5 gallons 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.

**NOTICE:** Stauffer Chemical Company makes no warranty, express or implied, including the warranties of merchantability and/or fitness for any particular purpose, concerning this material except those which are contained on Stauffer's label.

# IMIDAN<sup>®</sup> 50-WP

## AGRICULTURAL INSECTICIDE — WETTABLE POWDER

ACTIVE INGREDIENT:  
*N*-methyl-2-methylphthalimide S-(O,O-dimethyl phosphorothioate)

INERT INGREDIENTS:

50%  
 50%  
 100%



U.S. Patent No. 2,767,194

### WARNING — KEEP OUT OF REACH OF CHILDREN

- HARMFUL OR FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN
- Do not get in eyes or on skin, or on clothing
- Do not breathe spray mist
- In case of skin contact, wash immediately with soap and hot water before re-use.
- Wash all contaminated clothing with soap and hot water before re-use.

NOTE TO PHYSICIAN: IMIDAN is an organophosphorus insecticide. ATROPINE IS ANTIDOTAL. 2-PAM also is antidotal when administered early, and in conjunction with atropine

### USE PRECAUTIONS

- Read all precautions and directions before using. Apply this product only as specified on this label
- IMIDAN 50 WP is compatible with most commonly used insecticides and fungicides, but is incompatible with alkaline materials such as bordeaux or lime.
- The addition of a spray adjuvant is not necessary or recommended with IMIDAN 50-WP.

### ENVIRONMENTAL CAUTIONS

- Toxic to fish and wildlife. Keep out of lakes, streams and ponds. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment, or disposal of wastes
- Do not apply when weather conditions favor drift from areas treated.
- Highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service

### RECOMMENDATIONS AND DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Pour recommended amount of this material on surface of water in nearly filled spray tank. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. Do not allow mixture to stand. Do not use in gear type spray equipment.

**ALFALFA (Except California):** For control of Common Alfalfa Weevil Larvae, Egyptian Alfalfa Weevil Larvae and Potato Leafhopper, apply 2 pounds IMIDAN 50-WP in 10 to 50 gallons of water per acre (20 to 50 gallons water for dense stands) by ground equipment or 2 pounds IMIDAN 50-WP in 5 to 10 gallons of water per acre by aircraft. Consult your local County Agent or Extension Service Representative regarding the proper timing of application. Larvae should be sprayed when they are actively feeding. Do not apply more than once per cutting. Do not graze or cut for hay within 7 days after application. Recommended for control of Potato Leafhopper — in Northeast and North Central States only.

**(California Only):** For control of Common Alfalfa Weevil and Egyptian Alfalfa Weevil Larvae, apply 1½ to 2 pounds IMIDAN 50-WP in 10 to 50 gallons of water per acre (20 to 50 gallons of water for dense stands) by ground equipment, or in 5 to 10 gallons of water per acre by aircraft. Consult your local Farm Advisor regarding the proper timing of application. Larvae should be sprayed when they are actively feeding. Do not apply more than once per cutting. Do not graze or cut for hay within 7 days of application of 1½ pounds IMIDAN 50-WP or within 14 days of application of 2 pounds IMIDAN 50-WP. Use of a spreader, sticker or surfactant is not recommended in California.

**ALMONDS:** For control of Peach Twig Borer, apply 1 pound IMIDAN 50-WP per 100 gallons of water (up to a maximum of 6 pounds IMIDAN 50-WP per acre). Apply as a full cover spray when infestation starts. Limit use on bearing almonds to one foliar application per season. Do not apply within 30 days of harvest. — **DORMANT APPLICATION** for San Jose Scale and Peach Twig Borer: Use 1 pound IMIDAN 50-WP per 100 gallons of water plus suitable spray oil according to oil manufacturer's specifications and local and state spray schedules. Make thorough coverage using conventional ground sprayers, wetting all parts of the tree.

**BLUEBERRIES (Northeastern U.S. only):** For control of Blueberry Maggot and Grayberry Fruitworm, apply 2 pounds IMIDAN 50-WP in 150 to 200 gallons of water per acre as a foliar spray. A second application may be made when indicated by insect infestations and local or state spray programs. May be applied up to 3 days of harvest.

**CITRUS (Lemons, Oranges — California, and Arizona only):** For control of California Red Scale, apply 1 pound IMIDAN 50-WP per 100 gallons of water plus 1 quart (per 100 gallons) of a suitable spray oil according to oil manufacturer's specifications. Apply as a full cover spray using ground application equipment (up to a maximum of 30 pounds IMIDAN 50-WP per acre). Repeat as necessary in accordance with scale infestations and local or state spray programs, up to three applications per season. Do not re-apply within 30-days of the previous application. Do not apply within 7 days of harvest.

**CORN (Corn Belt Only):** For suppression of Corn Rootworm adult populations apply 1½ to 1 pound IMIDAN 50-WP in 2 to 5 gallons of water per acre by aircraft, or in 20 to 50 gallons of water per acre by ground equipment. Apply when beetles are present in sufficient numbers to warrant treatment for protection of the silk from adult feeding. Consult your local county agent or Extension Service representative regarding proper timing of application. Do not apply within 14 days of harvest.

**PEAS, FRESH AND DRY (PACIFIC NORTHWEST ONLY):** For control of Pea Weevil and Pea Leaf Weevil, apply 1½ to 2 pounds IMIDAN 50-WP in 5 to 10 gallons of water per acre by aircraft, or in 20 to 50 gallons of water per acre 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 apply within 7 days of harvest. Do not graze or feed forage to livestock within 7 days of application. Do not cut treated fresh pea forage for hay within 10 days of application.

**PECANS (TEXAS ONLY):** For control of Pecan Nut Casebearer, apply 1½ pounds IMIDAN 50-WP per 100 gallons of water as a full cover spray when infestation starts. Repeat as necessary in accordance with insect infestations and local or state programs. Do not apply within 14 days of harvest. Do not graze livestock on cover crops grown in treated pecan groves.

**POTATOES:** Colorado Potato Beetle, Potato Flea Beetle, Potato Leaf Hopper, apply 2 pounds per acre (1½ to 2 lb per acre for Colorado Beetle and Potato Flea Beetle in the Northeast) in sufficient water to provide good coverage. Repeat applications as necessary throughout the growing season. Do not apply within 7 days of harvest. Not recommended for use on potatoes in California.

### DECIDUOUS FRUIT — FOLIAR SPRAYS

**APPLES:** For Apple Maggot, Codling Moth, Elm Spanworm, Green Apple Aphid, Fruit Tree Leafroller, Gypsy Moth, Orange Tortrix, Plum Curculio, Red Banded Leafroller, Rosy Apple Aphid and Tarnished Plant Bug Control, apply 1 to 1½ pounds per 100 gallons water (or a maximum of 8 pounds per acre per application) as a full cover spray. For heavy insect infestations use the higher dosage rate. Repeat as necessary in accordance with insect infestations and local or state spray programs. Usually suppresses European Red and Two Spotted Mites when used in a seasonal program. Do not apply within 7 days of harvest. Recommended for control of Elm Spanworm, Gypsy Moth and Fruit Tree Leafroller in the Northeast only. California Only: Consult your local County Agent or Extension Service Representative regarding proper timing of application.

For control of White Apple Leafhopper, apply the above rates of IMIDAN 50-WP tank mixed with 4 oz of Pyrethroid Growers Spray per 100 gallons of water. (Limit use to Michigan only)

**APRICOTS, NECTARINES:** Apple Maggot, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Red Banded Leafroller, apply 1 to 1½ pounds per 100 gallons water (or maximum of 6 pounds per acre per application) as a full cover spray. For heavy insect infestations use the higher dosage rate. Repeat as necessary in accordance with insect infestations and local or state spray programs. Usually suppresses

European Red and Two Spotted Mites when used in a seasonal program. Do not harvest. Do not use Omite in combination with IMIDAN on late maturing nectarin may result

**PRUNES, PLUMS:** Apple Maggot, Codling Moth, Oriental Fruit Moth, Peach Twig Borer, Red Banded Leafroller, apply 1 to 1½ pounds per 100 gallons water (or maximum per application) as a full cover spray. For heavy insect infestations use the higher dosage rate as necessary in accordance with insect infestations and local or state spray programs. European Red and Two Spotted Mites when used in a seasonal program. Do not harvest.

For control of Codling Moth in California only, apply 1 pound per 100 gallons water (or maximum per application) by ground equipment

**CHERRIES, SOUV (TART):** Cherry Fruit Fly, Fruit Tree Leafroller, Peach Twig Borer, apply 1 pound per 100 gallons water for maximum of 3½ pounds per acre per application. Repeat as necessary in accordance with insect infestations and local or state spray programs. Usually suppresses European Red and Two Spotted Mites when used in a seasonal program. Do not harvest. Recommended for Cherry Fruit Fly, Fruit Tree Leafroller in Northeast only.

**GRAPES:** For control of Grape Leafroller and Omnivorous Leafroller, apply 2 pounds per 100 gallons water per acre. Spray both sides of each row, also tops of vines to as of fruit and foliage. Applications may be made at any time between egg hatch and within 7 days of harvest.

**(Northeast Only): Grape Berrymoth,** apply 2 to 3 pounds of IMIDAN 50-WP in 200 gallons of water per acre. Apply prebloom, post-bloom, 1st and later cover spray as needed. Grape Leafroller of IMIDAN 50-WP in 200 gallons water per acre. Apply when most nymphs have hatched with Berrymoth. Make applications as necessary to maintain control in accordance with insect infestations and local or state spray programs. Do not apply within 14 days of harvest.

**PEACHES:** For Oriental Fruit Moth, Peach Twig Borer, Plum Curculio and Tarnished Plant Bug, apply 1 to 1½ pounds per 100 gallons water (or maximum of 6 pounds per acre per application) as a full cover spray. For heavy insect infestations use the higher dosage rate. Repeat as necessary in accordance with insect infestations and local or state spray programs. Usually suppresses European Red and Two Spotted Mites when used in a seasonal program. Do not apply within 14 days of harvest.

**PEARS:** For Codling Moth, Elm Spanworm, Fruit Tree Leafroller, Green Apple Aphid, Plum Curculio, Red Banded Leafroller, Rosy Apple Aphid and Tarnished Plant Bug, apply 1 to 1½ pounds per 100 gallons of water (or maximum of 10 pounds per acre per application) as a full cover spray. For heavy insect infestations use the higher dosage rate. Repeat as necessary in accordance with insect infestations and local or state spray programs. Usually suppresses European Red and Two Spotted Mites when used in a seasonal program. Do not apply within 7 days of harvest. Recommended for Elm Spanworm, Gypsy Moth and Fruit Tree Leafroller in Northeast only.

**CONCENTRATE AND SEMI-CONCENTRATE FOLIAR SPRAYS (Air or Ground):** When Concentrate and Semi-Concentrate sprays are used, apply the recommended amount per acre in proportionately lower volumes of water according to equipment manufacturer's instructions. Do not exceed the maximum rate of IMIDAN 50-WP per acre specified above for the individual tree fruits. In California, use a minimum of 4 pounds per acre on mature Pome and Stone Fruit Trees (3½ pounds on cherries).

**DECIDUOUS TREE FRUITS — DORMANT APPLICATIONS (Pacific Coast Only):** Apples, Apricots, Cherries, Nectarines, Peaches, Pears, Plums, Prunes. Use 1 pound IMIDAN 50-WP per 100 gallons of water plus suitable spray oil according to oil manufacturer's specifications. Make thorough coverage using ground sprayers, wetting all parts of the tree.

**DECIDUOUS SHADE AND ORNAMENTAL TREES AND WOODY EVERGREENS:** Limit all uses for control of Gypsy Moth, Elm Spanworm and Birch Leaf Miner. Recommended for Spring Cankerworm in the Northeastern and Midwestern U.S. only. Recommended for use by commercial applicators on Deciduous Shade and Ornamental Trees in parks, residential and recreational areas, along thoroughfares, etc. where infestations of Gypsy Moth, Spring Cankerworm, Elm Spanworm or Birch Leaf Miner are present.

Recommended on Deciduous Shade and Ornamental Trees (such as Ash, Beech, Hickory, Locust, Hawthorne, Birch, Elm, Maple) to control: Elm Spanworm, Gypsy Moth.

Recommended on Woody Evergreens (such as arborvitae, Cedar, Fir, Hemlock, Yew) to control: Gypsy Moth.

Recommended on Birch Trees to control: Birch Leaf Miner. When such insecticide is applied at a rate of 1 to 1½ pounds IMIDAN 50-WP per 100 gallons of water, the effect of the insecticide on the point of runoff. For heavy insect infestations use the higher dosage rate as necessary to maintain insect control.

Choose a cool, calm period, preferably in early morning or evening. Do not apply before leaf surfaces are dry.

### PINE SEEDLINGS

**White, Slash and Loblolly:** For control of pales weevil (*Hyllobius pales*) and pitch eel (*Pissodes*). Use IMIDAN 50-WP as a 4% top dip, dipping down to and including the bundles loose enough to allow solution to penetrate the bundles. Avoid coverage solution for 10-15 seconds to assure adequate coverage of all top growth. Drain before planting. Agitate solution frequently to keep IMIDAN wettable powder in suspension. Use of an extender such as Nu-Film 17 or Plantgard may help to retain the IMIDAN high rainfall conditions. Some slight needle burn and first year growth reduction may occur following treatment. Wear rubber gloves during treating and planting.

TO MAKE	DILUTION TABLE FOR A 4% TOP DIP		
	5 gallons	30 gallons	50 gallons
Use this amount of IMIDAN 50-WP	3½ lbs.	20 lbs.	33 lbs.

Agitate frequently to keep IMIDAN in suspension. 5 gallons of solution should be used for seedlings. Do not keep IMIDAN solution overnight. Make up a fresh batch each time dipped.

Nu-Film 17 is a registered trademark of Miller Chemical & Fertilizer Company. Plantgard is a registered trademark of Polymetrics International.

### STORAGE AND DISPOSAL

STORE IN A COOL, DRY PLACE

1. **PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open drums should be kept in a well-ventilated area.
2. **PESTICIDE DISPOSAL:** Pesticide, spray mixture, or rinse that cannot be used or chemically disposed of in a landfill approved for pesticides or buried in a safe place away from water.
3. **CONTAINER DISPOSAL:** Dispose of in an incinerator or landfill approved for pesticide containers.
4. **GENERAL:** Consult federal, state or local disposal authorities for approved alternative procedures.

### NOTICE — READ CAREFULLY

**CONDITIONS OF SALE:** Stauffer (and seller) offers this product for sale subject to, and buyer accepts, the following conditions of sale and warranty which may only be varied by written agreement with Stauffer.

**WARRANTY LIMITATION:** Stauffer warrants that this product conforms to the chemical description on the label and is fit for the purposes referred to in the directions for use on the label subject to the inherent risks of use of any pesticide. THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY and there is no other express warranty beyond the description on the label hereof.

**INHERENT RISKS:** The directions for use of this product are believed to be reliable and should be followed to eliminate all risks associated with use. Buyer assumes all risks associated with the use of this product contrary to label instructions or resulting from extraordinary weather conditions.

**LIMITATION OF LIABILITY:** In no case shall Stauffer be liable for special, indirect or consequential damages or handling of this product and no claim of any kind shall be greater in amount than the purchase price of such product, in respect of which such damages are claimed.

Made in U.S.A. by

**STAUFFER CHEMICAL COMPANY** WESTPORT, CT 06880

POUNDS NET EPA Reg.