



PYRIMETHANIL GROUP 9 FUNGICIDE

# Shield-Brite® PYR 40% SC

For postharvest use on pome and stone fruit crop groups

**ACTIVE INGREDIENT:**

Pyrimethanil*: 4,6-dimethyl-N-phenyl-2-pyrimidinamine.....	37.14%
OTHER INGREDIENTS .....	62.86%
Total .....	100.00%

\* CAS # 53112-28-0  
 Contains 3.27 lbs. active ingredient per gallon (400 g/L)  
 EPA Reg. No. 64864-79

- EPA Est. No. 97524-GA-1
- EPA Est. No. 70815-GA-001
- EPA Est. No. 64864-WA-001

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

FIRST AID	
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for at least 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or a local emergency number, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.</p>	
<b>HOT LINE NUMBER</b>	
<p>Medical Emergency Phone Number 888-271-4649 (PROPHARMA)          Transportation Emergency Phone Number 800-424-9300 (CHEMTREC)</p>	

See additional precautionary statements and directions for use inside booklet

Manufactured for:  
**Pace International**™  
 5661 Branch Road Wapato, WA 98951 | 800.936.6750

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if swallowed. Harmful if inhaled. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### Personal Protective Equipment (PPE)

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

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves (Natural Rubber)

#### User Safety Requirements

Follow manufacturer's instructions for cleaning/handling PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been fogged or heavily contaminated with the 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.
- Users should 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.

## ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

This product is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewer treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

## DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

## PRODUCT INFORMATION

**Pome Fruit Group 11-10:** For the control of blue mold (*Penicillium expansum*), gray mold (*Botrytis cinerea*), Phacidiopycnis rot (*Phacidiopycnis piri*), and bull's eye rot (*Neofabraea perennans* & *N. malicorticis*).

**Stone Fruit Group 12-12:** For the control of brown rot (*Monilinia*) and gray mold (*Botrytis cinerea*).

Use of Shield-Brite PYR 40% SC should be integrated into an overall disease management program within each packinghouse.

## FUNGICIDE RESISTANCE MANAGEMENT

PYRIMETHANIL

GROUP

9

FUNGICIDE

For resistance management, Shield-Brite PYR 40% SC contains a group 9 fungicide. Any fungal population may contain individual naturally insensitive to pyrimethanil and other Group 9 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly. Appropriate resistance-management strategies should be followed. To delay pyrimethanil resistance, take one or more of the following steps:

- Rotate the use of Shield-Brite PYR 40% SC or other Group 9 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pests when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Pace International LLC at 1-800-933-6750. You can also contact your pesticide distributor or university extension specialist to report resistance.

## MIXING INSTRUCTIONS

Fill tank with half of the required amount of water or water wax and start mechanical agitation. Add the required amount of Shield-Brite PYR 40% SC and then add the remaining volume of water or water wax. Maintain agitation after mixing and do not allow treating solution to stand overnight or for prolonged periods. For in-line injection systems better distribution will be achieved by injecting a larger volume of a more dilute solution per unit of time.

The physical compatibility of Shield-Brite PYR 40% SC with all tank mix partners and wax types has not been fully investigated. This product cannot be mixed with any product containing a label prohibition against such mixing. Follow the more restrictive labeling requirements of any tank mix partner. No label dosage rates for the individual products may be exceeded. Prior to tank mixing with Shield-Brite PYR 40% SC, conduct a jar test with the volumes and rates typically used for postharvest disease control. Add products in the following order: Wettable powders and water-dispersible granules first, followed by liquid flowables, and emulsifiable concentrates last. After thorough mixing, let stand for at least 15 minutes. Separation, clumping, sludge, flakes or other precipitates are indicative of physical incompatibility. Physical compatibility is indicated if the combination remains mixed or can be remixed readily. THE CROP SAFETY OF ALL POTENTIAL PESTICIDE TANK MIXES WITH Shield-Brite PYR 40% SC INCLUDING ANTI-SOILD AGENTS AND WAXES, HAS NOT BEEN TESTED ON ALL CROPS AND VARIETIES. BEFORE APPLYING ANY TANK MIXTURE, CONFIRM SAFETY TO THE TARGET CROP BEFORE USE.

## USE RATES:

**POME FRUITS GROUP 11-10:** Apple, Azarole, Crabapple, Loquat, Mayhaw, Medlar, Pear, Pear (Asian), Quince, Quince (Chinese & Japanese), Tejocote, and all cultivar, varieties and/or hybrids of these.

Treatment Method	Rate (fl. oz/100 gal)	Treatment Time (min)	Concentration A.I. (ppm)
Dip, wash tanks	16 - 32	1	500-1000
Drenchers	16 - 32	1	500-1000
Aqueous line spray	32	1	1000
Wax line spray	64	1	2000

**STONE FRUITS GROUP 12-12:** Apricot, Apricot (Japanese), Capulin, Cherry (black, Nanking, sweet & tart), Jujube (Chinese), Nectarine, Peach, Plum, Plum (American, beach, Canada, cherry, Chickasaw, Damson, Japanese, Klamath, prune), Plumcot, Sloe, and cultivars, varieties and/or hybrids of these.

Treatment Method	Rate	Treatment Time (min)	Concentration A.I. (ppm)
Dip tanks	16 fl. oz/100 gal	0.5 (30 sec)	500
High volume line spray nozzle or flood application (aqueous/ water-wax/wax-oil emulsion)	16 fl. oz/100 gal	0.5 (30 sec)	500

**STONE FRUITS GROUP 12-12 EXCEPT CHERRY:** Apricot, Apricot (Japanese), Capulin, Jujube (Chinese), Nectarine, Peach, Plum, Plum (American, beach, Canada, cherry, Chickasaw, Damson, Japanese, Klamath, prune), Plumcot, Sloe, and cultivars, varieties and/or hybrids of these.

Low volume line spray nozzle application (i.e. CDA) (aqueous/water-wax/wax oil emulsion)	33.8 fl. oz per 80-120 gal	400 g AI per 200,000 lbs. fruit (4 g AI/ton fruit)
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Periodically measure the Shield-Brite PYR 40% SC concentration of the treating solutions from drenchers, dips and wash tanks to maintain the proper level of Shield-Brite PYR 40% SC. Aqueous applications must be applied prior to fruit receiving any wax applications.

#### RESTRICTIONS

- For pome fruits, a maximum combination of two application methods may be used.
  - Maximum single application rate via dip, wash tanks, drenchers or aqueous line sprays: 32 fl. oz/100 gal (1,000 A.I. ppm)
  - Maximum single application rate via wax line spray: 64 fl. oz/100 gal (2,000 A.I. ppm)
- For stone fruits, do not make more than a single application. The maximum single application rate for dip tanks, high volume line sprays or flood application is 16 fl. oz/100 gal (500 A.I. ppm). For low volume line spray nozzle applications (except cherries) do not use more than 33.8 fl. oz/80-120 gal.

Acceptable treatment scenarios are presented below:

SHIELD-BRITE PYR 40% SC APPLICATION METHODS					
POME FRUITS GROUP 11-10: Apple, Azarole, Flat apple, Loquat, Mayhaw, Medlar, Pear, Pear (Asian), Quince, Quince (Chinese & Japanese), Tejocote, and all cultivar, varieties and/or hybrids of these.					
Treatment Scenario	Drench	Dip & Wash tanks	Aqueous Spray	Storage Wax	Shipping Wax
1	X	X			
2	X		X		
3	X				X
4		X			X
5			X		X
6		X	X		

**STONE FRUITS GROUP 12-12:** Apricot, Apricot (Japanese), Capulin, Cherry (black, Nanking, sweet & tart), Jujube (Chinese), Nectarine, Peach, Plum, Plum (American, beach, Canada, cherry, Chickasaw, Damson, Japanese, Klamath, prune), Plumcot, Sloe, and cultivars, varieties and/or hybrids of these.

Treatment Scenario	Dip tanks	High volume line application (i.e. flooders)	Low volume line application (i.e. controlled droplet applicator)
1	X		
2		X	
3			X (except cherries)

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Keep in original container and keep tightly closed. Store in a cool, secure, dry area.

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

**CONTAINER HANDLING:**

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**NOTICE TO BUYER**

**IMPORTANT:** Read the information below before using this product. If the terms are not acceptable, you should return the unopened product container immediately for a complete refund.

**LIMITED WARRANTY, TERMS OF SALE, AND LIMITATION OF LIABILITY**

Upon purchase of this product, purchaser and user agree to the following terms:

**Warranty:** Pace International, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects. To the extent consistent with applicable law, except as expressly stated in the foregoing sentence, the Company makes no further warranties and expressly disclaims any implied warranties of merchantability or fitness for a particular purpose and any representation or warranty.

**Terms of Sale:** The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

**Limitations of Liability:** To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury, or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental, or consequential damages of any kind, including loss of profits or income.

To the extent consistent with applicable law, the Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale, and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

**MADE IN USA**

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Specimen Label



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EPA Est. No. 70815-GA-001

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### FIRST AID

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>
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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 a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
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