

64864-58

11/23/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Andrew Kieniksman  
Pace International LLC  
5661 Branch Road  
Wapato, WA 98951

NOV 23 2010

Subject: Xedaquin Drench  
EPA Reg. No. 64864-58  
Amendment dated: September 14, 2010  
Decision No. 440619


Dear Mr. Kieniksman:

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable providing the following changes are made.

1. On page 2, add the word "exist" following "If no such instructions" in the second sentence of the User Safety Requirements statement.
2. On page 3, within the Pre-Mix Recommendation section, revise the final bullet point so it reads "Then add pre-mix solution to tank with the remaining water amount as specified in the Dilution Rate Table."

If you have any questions, please contact Shaunta Hill by phone at (703) 347-8961 or via email at [hill.shaunta@epa.gov](mailto:hill.shaunta@epa.gov). One copy of the label stamped "Accepted with comments" is enclosed for your records. Please submit one copy of the final printed label that incorporates the required changes before the product is released for shipment.

Sincerely,

  
Shaja B. Joyner  
Product Manager 20  
Fungicide Branch  
Registration Division (7504P)

Enclosure

packet

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**Xedaquin 469EC**

**Post-Harvest Antiscald Drench or Spray Treatment for Pears**

FOR AGRICULTURAL USE ONLY

Xedaquin 469EC is recommended for reducing scald damage to pears while in storage.

**ACTIVE INGREDIENT:**

Ethoxyquin (6-Ethoxy-1,2-dihydro-2,2,4-trimethyl quinoline)..... 46%

**OTHER INGREDIENTS:**..... 54%

Total ..... 100%

Contains 3.91 lbs. active ingredient per gallon (469 g/L)

EPA Reg. No. 64864-58

EPA Est. No. 64864-WA-1

KEEP OUT OF REACH OF CHILDREN

**CAUTION - CUIDADO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand this label, find someone to explain it to you in detail.)

<b>FIRST AID</b>	
Have the product container or label with you when calling a poison control center, doctor, or going for treatment.	
<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>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• 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.</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 an ambulance, 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>HOT LINE NUMBER</b>	
For emergency information concerning this product, call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call your local poison control center at 1-800-222-1222.	

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**ACCEPTED**

**with COMMENTS  
In EPA Letter Dated:**

**NOV 23 2010**

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.**

**Personal Protective Equipment (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks and shoes
- Protective eyewear
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.

Persons sorting, packing, culling or otherwise handling treated pears and persons handling impregnated paper wrap are considered handlers and must wear required handler PPE.

NOTE: Employers must provide mixers and loaders with the appropriate type of chemical-resistant gloves in clean and operating condition and replace or appropriately clean the gloves after any day of use.

**User Safety Requirements**

Users must follow manufacturer's instructions for cleaning/handling PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**

Users should

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 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 sewage 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.

**Application Restrictions**

Do not apply this product in a way that will contact workers or other persons. Only protected handlers may be in the area during application.

**Application Instructions**

- Use entire contents of the container immediately after opening.
- Make sure water supply is completely free of chlorine.
- Avoid exposing concentrate or diluted solution to sunlight to prevent darkening, which may cause staining of fruit.
- Avoid exposing treated fruit to sunlight, as exposure may cause fruit to stain.
- DO NOT combine Xedaquin 469EC with any other material unless the safety of the combination has been established.

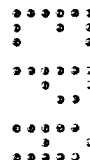
- Consult your local extension horticulturist or a qualified pomologist for proper procedures and precautions.

#### Pre-Mix Recommendation

- Pre-mixing the Xedaquin 469EC concentrate in a small volume of water before addition to a drench tank will improve dispersion of the product throughout the tank. Follow the instructions below to ensure best dispersion:
  1. Calculate the total amount of Xedaquin 469EC needed for application based on the Dilution Rate Table on this label and place it in a separate container at least twice as large as the volume of Xedaquin 469EC being used.
  2. Add 2/3 gallon of water for every gallon of Xedaquin 469EC (or 2 gallons of water for every 3 gallons of concentrate).
  3. Mix solution until it forms a milky brown, viscous paste.
  4. Add another 1/3 gallon of water for every gallon of Xedaquin 469EC (or 1 gallon of water for every 3 gallons of concentrate).
  5. Mix to thin the solution into a milky brown liquid. The end result will be a 1:1 mixture of Xedaquin 469EC with water.
  6. Mixing in 2/3 of the water first, followed by 1/3 afterward will provide better results than mixing in the water all at once.
- Then add pre-mix solution to tank as specified in Dilution Rate Table.

#### Application Procedures

- Product can be applied either in a single application or split application (double application) by drench or line spray (aqueous or incorporated in fruit coatings). These two methods of application are not to be used in combination with one another.
- For Anjou pears:
  - Single application: Up to 2700 ppm ethoxyquin may be applied as a drench, spray on brush bed or conveyor rolls, or combined with fruit coatings.
  - Split application: (1) Use a minimum of 1000 ppm to a maximum of 1500 ppm applied as a drench. (2) Follow with either a minimum of 1200 ppm to a maximum of 1700 ppm applied as a line spray (not to exceed 2700 ppm total from both applications combined). The total amount of ethoxyquin applied should not exceed 2700 ppm. Rates for drenching followed by line spraying are listed below:
    - 1000 ppm drench followed by 1700 ppm line spray; 2700 ppm total
    - 1100 ppm drench followed by 1600 ppm line spray; 2700 ppm total
    - 1200 ppm drench followed by 1500 ppm line spray; 2700 ppm total
    - 1300 ppm drench followed by 1400 ppm line spray; 2700 ppm total
    - 1400 ppm drench followed by 1300 ppm line spray; 2700 ppm total
    - 1500 ppm drench followed by 1200 ppm line spray; 2700 ppm total
- Keep tank and equipment absolutely clean at all times. Thoroughly flush out tank immediately after use and before re-filling. Change solution daily or more often if needed.
- For best control of scald, apply to Anjou pears no later than one week after harvest.
- Over application can result in fruit injury. Fruit discoloration, burning, or injury may occur if treated fruit is allowed to remain in pools of liquid at the bottom of bins or at fruit contact points. Drain fruit thoroughly after treatment and before placing fruit in cold storage.
- When applied with fruit coatings, be sure fruit is completely dry before packing, or before refilling bins when presizing. The use of a conventional fruit packingline dryer is highly recommended to minimize the risk of injury, marking or staining.



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Dilution Rate Table

Target Concentration (ppm AI)	Ratio of Xedaquin 469EC to Water
1000	1:470
1200	1:390
1500	1:315
1700	1:275
2700	1:175

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Avoid storing below 40° F. In case of spill or leak, absorb liquid with sawdust or other absorbent material and incinerate or dispose of it in approved disposal 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 DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Offer for recycling or reconditioning, if available.

Triple rinse as follows:

*(NOTE TO EPA REVIEWER: Triple rinse language on product label will depend on size of container, as noted below)*

*(for container 5 gallons or smaller)* 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 ¼ 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.

*(For containers larger than 5 gallons)* Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**NOTICE TO BUYER****IMPORTANT: READ BEFORE USE**

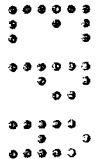
Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**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 and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. To the extent consistent with applicable law, the Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. To the extent consistent with applicable law, no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

**Terms of Sale:** The Company's directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the 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 control of the Company. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

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, the Company shall not be liable for any special, indirect, incidental, or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived.

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

Net Contents: \_\_\_\_\_

Manufactured By:  
Pace International, LLC  
5661 Branch Road  
Wapato, WA 98951  
800.936.6750

