

7696-125

3-11-1999

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MAR 11 1999

Ms. Darcy Geiger-Jackson  
BASF Corporation  
Agricultural Products  
P.O. Box 13528  
Research Triangle Park, NC 27709

Subject: Change in Signal Word and Amended Labeling Per "New" Primary Eye  
Irritation Study  
Pyramite Miticide/Insecticide  
EPA File Number: 7969-125  
Application Dated: August 11, 1998

1. The Agency has reviewed the Acute Toxicity Primary Eye Irritation Study that your company submitted, and it is acceptable. The new category is III.

2. The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below:

In regards to your labeling, revise the Precautionary Statements to read in the following manner, which incorporates your proposed language and language prescribed by the Technical Review Branch.

May be fatal if inhaled. Do not breathe dust or spray mist. For handling activities, use dust/mist filtering respirator (MSHA/NIOSH approval numbers prefix TC-21C), or a NIOSH approved respirator with a NPR, or HE prefilter. Wear long-sleeved shirt and long pants, socks and shoes and waterproof gloves. Harmful if swallowed or absorbed through skin. Avoid contact with skin. Remove contaminated clothing and wash before reuse. Causes moderate eye irritation. Do not get in eyes or on clothing. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling.

3. In addition, labeling should contain a Note to Physicians. Some suggested type of information include the following:

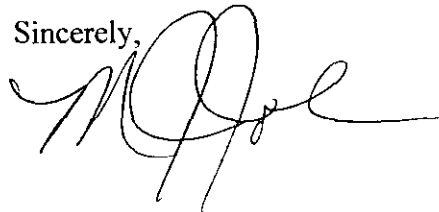
- technical information on symptomatology;
- use of supportive treatments to maintain life functions;
- medicine that will counteract the specific physiological effects of the pesticide;
- company telephone number to specific medical personnel who can provide specialized Medical advice.

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3. Submit two copies of the revised final label for the record.
4. As a reminder, you should note that your product may require future labeling revisions in accordance with PR Notice 98-9, "Modification of Respirator Statements for Pesticide Labels." If you have any questions, please contact Melody Banks on (703) 305-5413.

A stamped copy of the label is enclosed for the record.

Sincerely,



Marion J. Johnson, Jr.  
Product Manager 10  
Insecticide Branch  
Registration Division (7505c)

**BASF**

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# Pyramite<sup>TM</sup>

miticide/insecticide

**Active Ingredient:**

[2-*tert*-butyl-5-(4-*tert*-butylbenzylthio)-4-chloropyridazin-3(2*H*)-one] ..... 60.0%

Inert ingredients: ..... 40.0%

Total ..... 100.0%

Plus water-soluble packaging

EPA Registration Number 7969-125  
U.S. Patent Number: 4,877,787

EPA Est. No. 67545-AZ-01

**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.)

**ACCEPTED**  
with **COMMENTS**  
In EPA Letter Dated:

MAR 11 1999

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

7969-125

See inside booklet for complete **Precautionary Statements, Statements of Practical Treatment, Directions For Use, and Conditions of Sale and Warranty.**

**Net contents: 1.375 pounds**  
**(five 4.4-ounce water-soluble bags)**

BASF Corporation  
P.O. Box 13528, Research Triangle Park, NC 27709

## I. Precautionary Statements

### Hazards to Humans and Domestic Animals

**WARNING:** May be fatal if inhaled. Do not breathe dust or spray mist. Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Harmful if swallowed or absorbed through skin. Avoid contact with skin. Remove contaminated clothing and wash before re-use. Causes moderate eye irritation. Do not get in eyes or on clothing. Wear goggles, face shield, or safety glasses. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

### Statement of Practical Treatment

**If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**If swallowed:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

**If on skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**If in eyes:** Flush eyes with plenty of water. Call a physician if irritation persists.

### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves
- Protective eyewear
- For handling activities during handgun activities with direct overhead exposures, wear either 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-21C).
- For overhead exposure, wear chemical resistant headgear.
- For all other exposures, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

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

### Engineering Controls Statement

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### 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

This pesticide is extremely 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. Keep out of lakes, ponds, or streams. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not apply when weather conditions favor drift from target area. Drift or runoff from treated areas may be hazardous to fish in adjacent sites. This product is highly toxic to bees. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Application early in the morning or at dusk is suggested.

## II. 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.

All applicable directions, restrictions, precautions and Conditions of Sale and Warranty are to be followed. This labeling must be in the user's possession during application.

### 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 the 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 worker entry into treated areas during the restricted entry interval (REI) of 12 hours. 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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear
- For handling activities during handgun activities with direct overhead exposures, wear either 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-21C).
- For all other exposures, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

## Storage and Disposal

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

**Pesticide Storage:** Store in a cool, dry place.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### Container Disposal:

#### • Water-soluble packaging:

This package contains water-soluble bags inside a foil liner (overwrap). The water-soluble bags dissolve in water and the contents will disperse. If all the water-soluble bags are not used, carefully reseal the overwrap. Each overwrap contains five water-soluble bags. Do not remove the water-soluble bags from the overwrap except for immediate use. If exposed to moisture, the water-soluble bags may break. The outer case and inner overwrap packaging of the water-soluble bag should be incinerated or disposed of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not re-use the empty packaging.

## In Case of Emergency

In case of large-scale spillage regarding this product, call:

CHEMTREC	800-424-9300
BASF Corporation	800-832-HELP

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment.
- Your local poison control center (hospital).
- BASF Corporation (800-832-HELP)

### Steps to be taken in case material is released or spilled:

Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

## III. General Information

This package contains **Pyramite™ miticide/insecticide**, a 60% wettable powder, in water-soluble bags. **Pyramite** is a selective contact miticide/insecticide that controls pests in apple, pear, and almond orchards when used at recommended rates. (Refer to **Table 1. Pyramite Application Rate Table**.) **Pyramite** provides knockdown and residual control. A good performance evaluation can be made 4-7 days after treatment. For optimum results, **Pyramite** should be applied at when pest populations are beginning to build and prior to reaching economic thresholds.

## Mite Resistance Management

**Pyramite** use should be alternated with other miticides as part of a mite management program to minimize resistance. Repeated use of the same miticide has been documented to result in the buildup of resistant strains of mites. To reduce the potential of obtaining a population of acaricide-resistant mites, the grower should alternate products of differing modes of action.

Consult with your local or state extension personnel for advice on miticide use and selection.

## Cleaning Spray Equipment

Spray equipment must be cleaned thoroughly before and after applying this product, particularly if a product with the potential to injure crops was used.

## IV. Application Instructions

**Pyramite** may be applied by ground equipment using either diluted or concentrated sprays. Apply recommended rates of **Pyramite** as instructed by section IX. **Crop-Specific Information**. Spray the last 3 rows windward of surface water using nozzles on only one side with the spray directed away from surface water. Avoid spraying over the tops of trees by adjusting or turning off the top nozzles. Shut off the nozzles on the side away from the orchard when spraying the outside row. Shut off the nozzles when turning at the ends of the rows and when passing tree gaps in rows.

## Coverage

Apply **Pyramite** in sufficient water to ensure thorough coverage of foliage and fruit. Thorough coverage is required for optimum control. To achieve adequate coverage, use proper spray pressure, nozzles, nozzle spacing, gallonage per acre, and tractor speed. Consult spray nozzle and accessor, guide for information pertaining to proper equipment calibration.

## Ground Application (Broadcast)

**Water Volume:** Use 100-400 gallons of spray solution per broadcast acre for optimal performance.

## V. Additives

In general, no additives or adjuvants are necessary for effective use of **Pyramite**. However, certain conditions may justify the use of additives. Consult a BASF representative or local agricultural authorities for more information concerning additives.

## VI. Mixing Order

Begin by agitating a thoroughly clean sprayer tank half full of clean water and add the recommended product amounts in the following order:

- 1) **Pyramite™** miticide/insecticide
- 2) Tank mix partner (if applicable)
- 3) Remaining quantity water

Carefully remove the recommended number of water-soluble bags from the inner overwrap packaging and carefully place them into the spray water in the mixing tank. Reseal the outer package making sure that no moisture contacts the water-soluble bags. Do not open the water-soluble bags. Allow the bags to completely dissolve. Use the maximum agitation while mixing **Pyramite** in the spray tank.

Add other products only after the **Pyramite** bags have completely dissolved, then add the remaining water.

A defoaming agent may also be necessary. Do not attempt to dissolve the water-soluble bags directly in diesel oils or summer spray-type oils. The bags are water-soluble, not oil soluble.

Boron will prevent the water-soluble bags from dissolving. If boron-containing products are to be used, the water-soluble bags containing **Pyramite** must be dissolved completely before the boron-containing product can be added to the spray tank. If boron-containing products have been used in previous applications, thoroughly wash the spray tank before using **Pyramite**. Always reseal the overwrap package to protect the remaining unused bags.

## VII. General Tank Mixing Information

**Notice to user:** The phytotoxic potential of **Pyramite** has been assessed on a wide variety of trees with no phytotoxicity observed. However, all varieties and cultivars have not been tested with possible tank mix combinations. Local conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Therefore, before using **Pyramite**, test the product on a sample of the crop to be treated to ensure that a phytotoxic response will not occur as a result of applications.

Table 1. **Pyramite** Application Rate Table

Pests Controlled	Concentrate Rate Per Acre (100-200 gpa)	Dilute Rate Per 100 Gallons (200-400 gpa)
Apple rust mite European red mite Pear rust mite	1-1.5 bags (4.4-6.6 ounces)	0.5 bag (2.2 oz.)
McDaniel spider mite Pacific spider mite Two-spotted spider mite	1.5-3 bags (6.6-13.2 ounces)	0.75 bag (3.3 ounces)
Pear Psylla	2-3 bags (8.8-13.2 ounces)	1 bag (4.4 ounces)
Pests Suppressed	Concentrate Rate Per Acre (100-200 gpa)	Dilute Rate Per 100 Gallons (200-400 gpa)
Apple aphid White apple leafhopper Whitefly	1.5-3 bags (6.6-13.2 ounces)	0.75 bag (3.3 ounces)

Maximum concentrated rate per acre is based on 400 gallons per acre.

Do not use less than 100 gallons spray volume per acre.

Do not break the water-soluble bags. Fractions are used for the purpose of conversion and accurate rate calculation.

## VIII. General Restrictions and Limitations - All Crops

- **Maximum seasonal use rate:** Do not apply more than a **total of 26.4 ounces of Pyramite™ miticide/insecticide** (1.0 pound a.i.) per acre, per season. Do not apply less than 4.4 ounces of **Pyramite** per acre, per season.
- Allow a minimum of **30 days** between **sequential applications** of **Pyramite**.
- **Preharvest Interval (PHI):** Refer to Table 2.
- **Restricted Entry Interval (REI): 12 hours.**
- Do not apply **Pyramite** by air.
- Do not apply through any type of **irrigation** equipment.
- Do not use less than **100 gallons** of water volume per acre.
- Do not make more than **2 applications** of **Pyramite** per year.
- **Drift:** Do not apply **Pyramite** when weather conditions favor drift to surface water. Do not apply within **110 feet upwind** of surface water or when windspeed is above **8 mph**. Do not apply during a temperature inversion.

### **Water-soluble bags:**

- Do not remove the water-soluble bags from the overwrap package except to add them directly to the spray tank.
- Do not allow the water-soluble bags to become wet before adding them to the spray tank. Do not handle the water-soluble bags with wet hands or wet gloves.
- Do not break the water-soluble bags.

**Table 2. Crop-Specific Restrictions and Limitations**

Crop	Minimum Time from Application to Harvest (PHI)	Maximum Rate Per Acre Per Application	Maximum Rate Per Acre Per Season	Aircraft Application
Almonds	7 days	13.2 ounces	26.4 ounces	No
Apples	25 days	13.2 ounces	26.4 ounces	No
Pears	7 days	13.2 ounces	26.4 ounces	No

## IX. Crop-Specific Information

### **Almonds**

Apply 4.4-13.2 ounces of **Pyramite** in sufficient water to achieve thorough coverage. Use the higher rate of **Pyramite** to ensure adequate concentration in full size trees with dense foliage.

### **Apples**

Apply 4.4-13.2 ounces of **Pyramite** in sufficient water to achieve thorough coverage. Use the higher rate of **Pyramite** to ensure adequate concentration in full size trees with dense foliage.

### **Pears**

Apply 4.4-13.2 ounces of **Pyramite** in sufficient water to achieve thorough coverage. Use the higher rate of **Pyramite** to ensure adequate concentration in full size trees with dense foliage.

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### Crops:

This product can be used on the following crops:

Almonds  
Apples  
Pears

Look inside for complete **Restrictions and Limitations and Application Instructions.**

### Pests listed in this label:

Common Name	Scientific Name
Apple Aphid	<i>Family: Aphididae</i> <i>Aphis pomi</i>
Apple Rust Mite	<i>Family: Eriophyidae</i> <i>Aculus schlechtendali</i>
Pear Rust Mite	<i>Epitrimerus Pyri</i>
European Red Mite	<i>Family: Tetranychidae</i> <i>Panonychus ulmi</i>
McDaniel Spider Mite	<i>Tetranychus mcdanieli</i>
Pacific Spider Mite	<i>Tetranychus urticae</i>
Two-spotted Spider Mite	<i>Tetranychus pacificus</i>
Pear Psylla	<i>Cacopsylla pyricola</i>
White Apple Leafhopper	<i>Family: Cicadellidae</i> <i>Typhlocyba pomaria</i>
Whitefly	<i>Family: Aleyrodidae</i> <i>Bemisia argentifolii</i>

### Additional Information

For additional information, call BASF's **COMMSERV™** at 1-800-874-0081.

### Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, 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, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. **BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.** IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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BASF Corporation  
P.O. Box 13528  
Research Triangle Park, NC 27709

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