

7969-125

6-30-2000

4/9

JUN 30 2000

T.R. Nelsen, Ph.D.
BASF Corporation
20 Davis Drive
P.O. Box 13528
Research Triangle Park, NC 27709

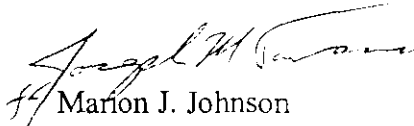
Subject: Revised Labels For:
PYRAMITE Miticide/Insecticide
EPA Reg. No. 7969-125
Letter dated June 29, 2000

Dear Dr. Nelsen:

The label for the product cited above revised in accordance with our letter dated June 28, 2000 is acceptable. A stamped copy of the label is enclosed for your records.

Your acceptance of the conditions set forth in our letter dated June 28, 2000 has been noted and made a part of the file for this product.

Sincerely,



Marion J. Johnson
Product Manager 10
Insecticide Branch
Registration Division 7505C

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**
JUN 30 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
7969-125

Pyramite™

miticide/insecticide

For use in apples, apricots, cherries, grapes, nectarines,
peaches, pears, pistachio, plums, prunes and tree nuts
group

Active Ingredient: [2- <i>tert</i> -butyl-5-(4- <i>tert</i> -butylbenzylthio)-4-chloropyridazin-3(2 <i>H</i>)-one].....	60.0%
Inert Ingredients:	40.0%
Total	100.0%

plus water-soluble packaging

EPA Registration Number: 7969-125

EPA Est. Number: 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.)

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

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

3/9

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
<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 BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357)</p>	

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING. 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 N, P, R, 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.

- Do not apply within 75 feet of bodies of water such as lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries or commercial fish ponds.
- For all plantings within 150 feet of bodies of water as described above, spray crops from outside the planting away from the bodies of water.
- Shut off sprayer when at row ends.
- Do not cultivate within ten feet of aquatic areas as to allow a vegetative filter strip.
- Do not apply when weather conditions favor drift to aquatic areas. Do not apply when gusts or sustained winds exceed 10 miles per hour.
- Do not apply during a temperature inversion. Mist or fog may indicate the presence of an inversion in humid areas.

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, use dust/mist filtering respirator (MSHA/NIOSH approval numbers prefix TC-21C), or a NIOSH approved respirator with a N, P, R, or HE prefilter.
- Chemical resistant headgear for overhead exposure.

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 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, enclosed cabs, or aircraft 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 toxic to estuarine and marine invertebrates. Do not apply 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.

Surface Water Advisory

Pyridaben can contaminate surface water through spray drift. Under some conditions, pyridaben or its degradates may also have a high potential for runoff into surface water (primarily bound to soil particles) in erosion producing rain events. These include poorly drained or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-filled 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.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

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 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, use dust/mist filtering respirator (MSHA/NIOSH approval numbers prefix TC-21C), or a NIOSH approved respirator with a N, P, R, or HE prefilter.
- Chemical resistant headgear for overhead exposure.

Storage and Disposal

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

Pesticide Storage:

Store in a cool, dry place. 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.

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:

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 Spill

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

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

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

Wear the personal protective equipment specified on the label. Recover the material for re-use according to label whenever possible. Sweep and/or shovel up the spilled material into an appropriate closed container. Avoid the creation of dusty conditions. Remove and wash clothing and personal protective equipment prior to re-use. Keep the spill out of all sewers and open bodies of water.

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.

I. 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, grapes, pear, pistachio, stone fruits and the tree nuts group 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 when pest populations are beginning to build and prior to reaching economic thresholds. Control of motile spider mites with **Pyramite** is best achieved when temperatures average above 70° F.

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

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions and then triple rinsing the equipment before and after applying this product.

5/9

Table 1. Pyramite Application Rate Table

Pests Controlled	Concentrate Rate Per Acre (100-200 gpa)	Dilute Rate Per 100 Gallons (200-400 gpa)
European red mite	1-1.5 bags (4.4-6.6 ounces)	0.5 bag (2.2 oz.)
Apple rust mite Blackmarginated aphid Citrus flat mite Eastern grape leafhopper Grape leafhopper Pacific spider mite Peach silver mite Pear rust mite Variegated leafhopper Virginiacreeper leafhopper Willamette spider mite Yellow pecan aphid	1.5-3 bags (6.6-13.2 ounces)	0.75 bag (3.3 oz.)
McDaniel spider mite Pear psylla Twospotted spider mite	2-3 bags (8.8-13.2 ounces)	0.75 bag (3.3 ounces)
Pests Suppressed	Concentrate Rate Per Acre (100-200 gpa)	Dilute Rate Per 100 Gallons (200-400 gpa)
Apple aphid White apple leafhopper Silverleaf whitefly	1.5-3 bags (6.6-13.2 ounces)	0.75 bag (3.3 ounces)
Do not use less than 100 gallons spray volume per acre on all crops except in grapes which is 50 gallons spray volume per acre. Do not break the water-soluble bags. Fractions are used for the purpose of conversion and accurate rate calculation.		

II. Application Instructions

Pyramite™ miticide/ insecticide may be applied by ground equipment using either diluted or concentrated sprays. Apply recommended rates of **Pyramite** as instructed by section VII. **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/vines 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 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 accessory 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.

III. Additives

In general, no additives or adjuvants are necessary for effective use of **Pyramite**. However, the use of additives may be considered for certain conditions such as obtaining better spray distribution, adhesion or penetration of product on to leaf or plant surfaces. Consult a BASF representative or local agricultural authorities for more information concerning additives.

IV. General Tank Mixing Information

The phytotoxic potential of **Pyramite™ miticide/insecticide** has been assessed on a wide variety of trees/vineyards 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.

Compatibility Test for Mix Components

Before mixing components, always perform a compatibility jar test.

For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature.

Add components in the sequence indicated in the **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the solution is incompatible, do not mix the ingredients in the same tank.

V. Mixing Order

- 1) **Water.** Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water.
- 2) **Agitation.** Maintain constant agitation throughout mixing and application.
- 3) **Products in PVA bags.** Place any product contained in water-soluble PVA bags such as **Pyramite** into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 4) **Water-dispersible products.** (such as dry flowables, wettable powders, suspension concentrates, or suspo-emulsions).
- 5) **Water-soluble products.**
- 6) **Emulsifiable concentrates** (such as oil concentrate when applicable).
- 7) **Water-soluble additives** (such as AMS or UAN when applicable).
- 8) **Remaining quantity of water.** Maintain constant agitation during application.

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.

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.

7/9

VI. Restrictions and Limitations

- **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.
- **Restricted Entry Interval (REI): 12 hours**
- Allow a minimum of **30 days** between **sequential applications** of **Pyramite**.
- **Preharvest Interval (PHI):** Refer to **Table 2**.
- Do not apply **Pyramite** by air.
- Do not use less than 50 gallons of water volume per acre on grapes and less than 100 gallons of water volume per acre for all other crops.
- Do not make more than 2 applications of **Pyramite** per year.
- **Drift:** Do not apply when weather conditions favor drift to aquatic areas. Do not apply when gusts or sustained winds exceed 10 miles per hour. Do not apply during a temperature inversion. Mist or fog may indicate the presence of an inversion in humid areas.
- Do not apply through any type of **irrigation** equipment.
- **Pyramite** is not for sale, distribution, or use in Nassau and Suffolk counties in New York State. In the remainder of the state, read and follow all applicable directions, restrictions and precautions on this label.

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
Apples	25 days	13.2 ounces	26.4 ounces	No
Apricots	300 days	13.2 ounces	26.4 ounces	No
Cherries	300 days	13.2 ounces	26.4 ounces	No
Grapes	7 days	13.2 ounces	26.4 ounces	No
Nectarines	7 days	13.2 ounces	26.4 ounces	No
Peaches	7 days	13.2 ounces	26.4 ounces	No
Pears	7 days	13.2 ounces	26.4 ounces	No
Pistachio	7 days	13.2 ounces	26.4 ounces	No
Plums	7 days	13.2 ounces	26.4 ounces	No
Prunes	7 days	13.2 ounces	26.4 ounces	No
Tree Nuts Group (Almond, Beech, Brazil, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory, Macadamia, Pecan, Black Walnut and English Walnut)	7 days	13.2 ounces	26.4 ounces	No

VII. Crop-Specific Information

Apples

Apply **Pyramite™ miticide/ insecticide** in 100-400 gallons of water per acre. Use the higher rate of **Pyramite** to ensure adequate concentration in full size trees with dense foliage.

Applications may be made early from pink through petal-fall. For best control, pest populations must be building with primarily immature stages at the time of application.

See Table 1 for application rates for specific pests.

Grapes

Apply **Pyramite** in 50-400 gallons of water per acre. Use the higher rate of **Pyramite** to ensure adequate concentration in mature vineyards with dense foliage. See Table 1 for application rates for specific pests.

Pears

Apply **Pyramite** in 100-400 gallons of water per acre. Use the higher rate of **Pyramite** to ensure adequate concentration in full size trees with dense foliage.

Applications may be made early from pink through mid-summer. For best control, pest populations must be building with primarily immature stages at the time of application.

See Table 1 for application rates for specific pests.

Stone Fruit Group

Apply **Pyramite** in 100-400 gallons of water per acre. Use the higher rate of **Pyramite** to ensure adequate concentration in full size trees with dense foliage. Cherries and apricots are treated after spring harvest and have a 300 day PHI.

See Table 1 for application rates for specific pests.

Tree Nuts Group and Pistachio

Apply **Pyramite** in 100-400 gallons of water per acre. Use the higher rate of **Pyramite** to ensure adequate concentration in full size trees with dense foliage.

Specifically for almonds-Applications may be made early from shuck split through mid-summer. For best control, pest populations must be building with primarily immature stages present at the time of application.

See Table 1 for application rates for specific pests.

9/9

Crops

This product can be used on the following crops:

- Almond
- Apple
- Apricot
- Beech
- Brazil
- Butternut
- Cashew
- Cherry
- Chestnut
- Chinquapin
- Filbert
- Grape
- Hickory
- Macadamia
- Nectarine
- Peach
- Pear
- Pecan
- Pistachio
- Plum
- Prune
- Walnut (black and English)

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

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.

U.S. Patent Number: 4,877,787

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 NVA 99-4-53-0136
 EPA Approved

Pests listed in this label:

Common Name	Scientific Name
Apple Aphid	Family: Aphididae <i>Aphis pomi</i>
Blackmargined Aphid	<i>Monellia caryella</i>
Yellow Pecan Aphid	<i>Monelliopsis pecanis</i>
	Family: Eriophyidae
Apple Rust Mite	<i>Aculus schlechtendali</i>
Peach Silver Mite	<i>Aculus fockeui</i>
Pear Rust Mite	<i>Epirimerus pyri</i>
	Family: Tenuipalpidae
Citrus Flat Mite	<i>Brevipalpus lewisi</i>
	Family: Tetranychidae
European Red Mite	<i>Panonychus ulmi</i>
McDaniel Spider Mite	<i>Tetranychus mcDanieli</i>
Pacific Spider Mite	<i>Tetranychus pacificus</i>
Twospotted Spider Mite	<i>Tetranychus urticae</i>
Willamette Spider Mite	<i>Eotetranychus willamettei</i>
	Family: Psyllidae
Pear Psylla	<i>Cacopsylla pyricola</i>
	Family: Cicadellidae
Eastern Grape Leafhopper	<i>Erythroneura comes</i>
Grape Leafhopper	<i>Erythroneura elegantula</i>
Variegated Leafhopper	<i>Erythroneura variabilis</i>
Virginiacreeper Leafhopper	<i>Erythroneura ziczac</i>
White Apple Leafhopper	<i>Typhlocyba pomaria</i>
	Family: Aleyrodidae
Silverleaf Whitefly	<i>Bemisia argentifolii</i>



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