

Reg # 7969-70

PM-21 TERESA

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460  
MAR 17 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Abraham J. Tobia, Ph.D  
BASF CORP  
Agricultural Products  
Box 13528  
Research Triangle Park, N.C. 27709

Subject: Label Amendment Submission of 11/17/93 in Response to PR Notice 93-7  
EPA Reg. No. 7969-70  
POLYRAM 80 WP FUNGICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

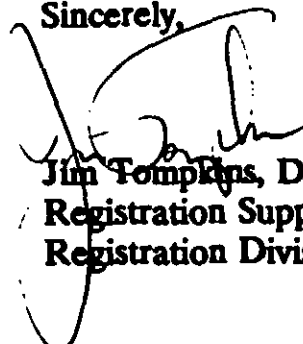
Submit the final printed labeling via the U.S. Postal Service to:

**Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001**

Hand or courier deliveries of final printed labeling may be made to:

**Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202**

Sincerely,



**Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)**

**Attachment**

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**BASF CORP.**  
**POLYRAM 80 WP FUNGICIDE**  
7969-70 11/17/93  
**Original Submission**

If you have an entirely separate PPE section specifying what "Mixers and loaders must wear", the requirement under the heading "Personal Protective Equipment" must state: "Applicators and other handlers (other than mixers and loaders) must wear:". Cross out your lead-in statement and replace it with the correct one.

You have incorrect wording in the first paragraph in the Agricultural Use Requirements box on your proposed label. That paragraph must contain the exact wording of the paragraph shown as "2" in Section F on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

Correct the typographical errors circled on your proposed label.

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# Polyram® 80 WP

fungicide

For agricultural or commercial use only.

**Active Ingredients:**

A mixture of 5.2 parts by weight (83.9%) of ammoniates of ethylenebis(dithiocarbamate)zinc with 1 part by weight (16.1%) ethylenebis(dithiocarbamic acid) bimolecular and trimolecular cyclicanhydrosulfides and disulfides . . . . . 80.0%

Inert Ingredients . . . . . 20.0%

Zinc expressed as metallic - 14.0%

**TOTAL . . . . . 100.0%**

EPA Reg. No. 7969-70

EPA Est. No. 7969-WG-01

## KEEP OUT OF REACH OF CHILDREN CAUTION

### Precautionary Statements

#### Hazards to Humans and Domestic Animals

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. See next page for additional precautionary statements.

### Statement of Practical Treatment

If swallowed: Dilute by giving two glasses of water to drink and call a physician. Never give anything by mouth to an unconscious person. If inhaled: Remove subject to fresh air; if not breathing give artificial respiration, preferably by mouth; get medical attention. If on skin: Wash with plenty of soap and water; get medical attention. If in eyes: Flush with plenty of water; consult a physician if irritation persists.

#### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

See the attached booklet for complete Precautionary Statements, Directions for Use, and Conditions of Sale and Warranty.

Net weight 30 Pounds

**BASF Corporation**

PO Box 13528 Research Triangle Park, North Carolina 27709-3528

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
MAR 17 1994  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide-  
registered under EPA Reg. No.  
7969-70

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## Precautionary Statements (continued)

### Personal Protective Equipment

*missing text*  
Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Mixers and Loaders must wear:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear
- Chemical-resistant apron

*missing text*  
Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. During aerial application, human flaggers must be in enclosed cabs.

**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

##### User 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 product is toxic to fish. 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 when disposing of equipment washwaters.

Apply this product only as specified on the label.

Do not allow this material to drift onto neighboring crops or non-crop areas or use in a manner or at a time other than in accordance with label

directions because animal, plant or crop injury, illegal residues or other undesirable results may occur.

### Storage and Disposal

**Pesticide Storage:** Do not contaminate water, food or feed by storage or disposal.

**Keep out of reach of children and animals.** Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, fold and roll back bags, clamp and close tightly. Do not put concentrate or dilute material into food or drink containers.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### Container Disposal

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or if allowed by state and local authorities, by burning. If burned, stay out

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of smoke.

## In Case of Emergency

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

**CHEMTREC 800-424-9300**  
**BASF Corp 800-832-HELP**

In case of medical emergency regarding this product, call:

1. Your local doctor for immediate treatment
2. Your local poison control center (hospital)
- 3 BASF Corp 800-832-HELP

All applicable directions, restrictions, precautions and conditions of sale and warranty are to be followed.

This labeling must be in the possession of the user at the time of application.

## 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.

## 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 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 24 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 over long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

If this product is used on a crop no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season.

## Apples

### General Information

Polyram 80 WP fungicide is effective for the control of apple scab and apple rusts. Polyram 80 WP is a contact fungicide; therefore, thorough coverage of plant parts to be protected is essential for effective disease control.

### Time and Rate of Application

It is recommended that Polyram 80 WP be used in an Integrated Pest Management program. Use either the "pre-bloom" or "extended application" schedule specified in Application Rates and Timings table. Do not combine or integrate the two treatment schedules. Use only on a protective schedule.

### Method of Application

Rates of Polyram 80 WP per 100 gallons are based on an application of 300 gallons per acre of dilute spray. Refer to Application Rates and Timing table if other than 300 gallons per acre is applied.

Apply **Polyram 80 WP** as a spray using sufficient water to obtain thorough coverage.

**Ground equipment:** Apply a minimum of 20 gallons per acre.

**Air equipment:** Apply a minimum of 10 gallons per acre.

### Mixing Instructions

Maintain agitation to keep the material in suspension and apply with properly calibrated spray equipment.

**Tank mixtures:** **Polyram 80 WP** is compatible with most of the apple pesticides with which it might normally be used, including spray oils.

When used with oil, Kelthane, or Diazinon, **Polyram 80 WP** should be thoroughly mixed with water in the spray tank and tank filled nearly full of water before the other material is added. Do not combine **Polyram 80 WP** with fixed coppers or highly alkaline materials such as Bordeaux mixture or lime sulfur. Observe all cautions and limitations on labeling of all products used in mixtures.

### Restrictions and Limitations for Apples

Do not combine or integrate the "pre-bloom" and "extended application" schedules.

Do not graze livestock in treated areas.

### Pre-bloom Use

Do not exceed 6 pounds of **Polyram 80 WP** per acre per application.

Do not apply more than 4 applications of **Polyram 80 WP** per season.

Do not apply **Polyram 80 WP** after bloom.

Do not apply more than 24 pounds of **Polyram 80 WP** per acre per year.

### Extended Application or Use in Tank Mixtures

Do not apply more than 3 pounds of **Polyram 80 WP** per acre per application.

Do not apply more than 7 applications of **Polyram 80 WP** per season.

Do not apply more than 21 pounds of **Polyram 80 WP** per acre per year.

Do not apply within 77 days of harvest.

## Potatoes

### General Information

**Polyram 80 WP** fungicide is effective for the control of early blight and late blight.

**Polyram 80 WP** is a contact fungicide, therefore thorough coverage of plant parts to be protected is essential for effective disease control.

### Time and Rate of Application

It is recommended that **Polyram 80 WP** be used in an Integrated Pest Management program.

Begin application when plants are 4 to 6 inches high by applying 2 pounds per acre. (Application intervals - 5 to 10 days. Refer to the **Application Rates and Timings** table.) The addition of a surfactant, that based on local experience, has been shown to cause no phytotoxic effect, to spray solutions will improve performance. Also vine kill should occur 14 days before harvest.

### Method of Application

Rates of **Polyram 80 WP** for potatoes are based on an application of 100 gallons per acre of dilute spray.

Apply **Polyram 80 WP** as a spray using sufficient water to obtain thorough coverage. Refer to the **Application Rates and Timings** table if other than 100 gallons per acre is applied.

**Ground equipment:** Apply a minimum of 15 gallons per

acre.

**Air equipment:** Apply in a minimum of 5 gallons per acre.

### Mixing Instructions

Maintain agitation to keep the material in suspension and apply with properly calibrated equipment.

**Tank Mixtures:** Polyram 80 WP is compatible with most of the potato pesticides with which it might normally be used. Do not apply Polyram 80 WP with fixed coppers or highly alkaline materials such as Bordeaux mixture or lime sulfur. Observe all cautions and limitations on labeling of all products used in mixtures.

### Chemigation

Apply by chemigation only to potatoes using only sprinkler irrigation systems. Do not apply chemigation to any other crop or to this crop using any other type of irrigation system.

Apply this product only through one of the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation systems. Crop injury, lack of

effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally-closed, solenoid-operated valve located on the intake side of

the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain a functional interlocking control to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump motor must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where a pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Agitation must be maintained in supply tank.

### Restrictions and limitations for Potatoes

Do not apply more than 2 pounds of Polyram 80 WP per acre per application.



Do not apply more than 14 pounds of Polyram 80 WP per acre per season.

Do not exceed 7 applications of Polyram 80 WP per season.

A minimum preharvest interval of 3 days is required in CT, DE, FL, MA, ME, MI, NH, NY, OH, PA, RI, VT, and WI, and at least 14 days elsewhere.

## Roses

### General Information

Polyram 80 WP fungicide is effective for the control of Cercospora Leaf Spot, Rust, and Black Spot of roses. Polyram 80 WP is a contact fungicide, therefore, thorough coverage of plants to be protected is essential for effective disease control.

### Time and Rate of Application

It is recommended that Polyram 80 WP be used in an Integrated Pest Management program. Spray Polyram 80 WP when first leaves unfold; repeat weekly as needed.

During periods continuously rainy weather shorten application period to twice a week. Refer to Application Rates and Timings table for use rates of Polyram 80 WP on roses.

### Method of Application

Rates of Polyram 80 WP for roses is expressed on application of 100 gallons per acre of dilute spray. Refer to the Application Rates and Timings table if other than 100 gallons per acre is applied.

**Spot or Small Area Treatment:** When using knapsack sprayers or other suitable small area spray equipment mix 6 teaspoonfuls per 1 gallon of water. Apply to the foliage on a spray-to-wet basis. Spray coverage should be uniform and complete. Do not spray to the point of runoff.

### Restrictions and Limitations for Roses

Do not exceed 2 applications of Polyram 80 WP per week.

## Application Rates and Timing

Crop	Diseases Controlled	Pounds of Polyram WP per Application		Remarks (Also refer to Directions For Use)	Restriction
		100 gal	Acre		
<b>Apples</b>  Use either the "pre-bloom" or "extended application" schedule. Do not combine or integrate the two-treatment schedules.	<b>Scab Rusts</b>	2.0	6.0	<b>Pre Bloom Use:</b> Begin applications at ¼ to ½ inch green tip and continue on a 7- to 10-day schedule through bloom.	Do not apply more than 4 applications per season.  Do not apply after bloom.  Do not apply more than 24 lbs. per acre per year.  Do not graze livestock in treated areas.
		Rates are based on 300 GPA			
		Do not exceed 6 lb product per acre per application			
		1.0	3.0	<b>Extended Application Schedule or for Use in Tank Mixtures:</b> It is recommended that this product be used in an Integrated Pest Management Program. For implementation of IPM programs or for use as a resistance management tool: applications based on tree-row volume. Begin applications at ¼ to ½ inch green tip and continue applications on a 7- to 10-day schedule through the second cover spray or to within 77 days of harvest.	Do not apply more than 7 applications per season.  Do not apply within 77 days of harvest.  Do not apply more than 21 lbs. per acre per year.  Do not graze livestock in treated areas.
		Rates are based on 300 GPA			
		Do not exceed 3 lb product per acre per application			
<b>Potatoes</b>	<b>Early Blight Late Blight</b>	2.0	2.0	Begin application when plants are 4 to 6 inches high by applying 2 lb. per acre. (Application intervals - 5 to 10 days.) The addition of a surfactant, that based on local experience, has been shown to cause no phytotoxic effect, to spray solutions will improve performance. It is recommended that this product be used within an Integrated Pest Management Program. Also vine kill should occur 14 days before harvest.	Do not apply more than 14 lbs. per acre per season.  Do not exceed 7 applications per season.  A minimum preharvest interval of 3 days is required in CT, DE, FL, MA, ME, MI, NH, NY, OH, PA, RI, VT and WI, and at least 14 days elsewhere.
		Rates are based on 100 GPA			
		Do not exceed 2 lb product per acre per application			
<b>Roses</b>	<b>Cercospora Leaf Spot Rust Black Spot</b>	1.0 to 1.5	1 to 1.5	Spray when first leaves unfold; repeat weekly as needed. During periods of continuously rainy weather, shorten application period to twice a week. Start off at 1.0 lb per acre; increase to 1.5 lb per acre if disease pressure increases.	Do not exceed 2 applications per week.
		Rates are based on 100 GPA			
		Do not exceed 1.5 lb product per acre per application			

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## Conditions of Sale and Warranty

The Directions of 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 EXPRESSED OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER 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.

*Polyram is a registered trademark of BASF Aktiengesellschaft.*

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Research Triangle Park, NC 27709

# BASF