

Dr. Abraham J. Tobia
BASF Corporation
P.O. Box 13528
Research Triangle Park, NC 27709-3528

Dear Dr. Tobia:

Subject: Polyram 80 WP
EPA Reg. No. 7969-70
Polyram 80 DF
EPA Reg. No. 7969-105
Your Submissions of August 23, 1994

The amendments referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), are acceptable provided that you:

1. Submit/cite all data required for registration or reregistration of your product under FIFRA section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling change listed below before you release the product for shipment bearing the amended labeling:

Change the Restricted Entry Interval for this product to 24 hours. The 24-hour reentry interval was imposed by the Registration Standard for Metiram as well as the PD-4 for the Special Review of EBDC compounds and is still required.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

/s/

Leonard S. Cole, Jr.
Acting Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

7505C:C.Grable:cg:9/30/94

Polyram[®] 80 WP

fungicide

For agricultural or commercial use only.

Active ingredient:

) 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 Establishment No. 7969-WG-01

ACCEPTED
with COMMENTS
in EPA Letter Dated
JUL 11 1994

KEEP OUT OF REACH OF CHILDREN.

CAUTION

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
7969-70

Precautionary Statements

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed, inhaled, or absorbed through 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.

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.

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 on skin: Wash with plenty of soap and water. Get medical attention.

If inhaled: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth to 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. Call a physician if irritation persists.

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

Net contents 30 pounds

BASF Corporation
PO Box 13528, Research Triangle Park, NC 27709

Specimen Label

BEST AVAILABLE COPY

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Precautionary Statements
Personal Protective Equipment
Applicators and other handlers
(other than mixers and loaders)
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 when cleaning equipment, mixing, or loading

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
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 product is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the 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

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 over long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or viton \geq 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headwear for overhead exposure

other than in accordance with label directions because animal, plant or crop injury, illegal residues or other undesirable results may occur.

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.

Foliar Applications

Where EBDC products used allow the same maximum poundage of active ingredient per acre per season:

If more than one product containing an EBDC active ingredient (maneb, mancozeb, or metiram) is used on a crop during the same growing season and the EBDC products used allow the same maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed any of the specified individual product maximum seasonal poundage of active ingredient allowed per acre.

Where EBDC products used allow different maximum poundage of active ingredient per acre per season:

If more than one product containing an EBDC active ingredient is used on a crop during the same growing season and the EBDC products used allow different maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed the lowest specified individual product maximum seasonal poundage of active ingredient allowed per acre.

Seed Treatment

In addition to the maximum number of foliar applications permitted by the formula stated above, a single application or seed treatment may be made on crops that have registered seed treatment uses.

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 of smoke.

In Case of Emergency

In case of large-scale damage regarding this product call:
CHEMTREC 800-424-9300
BASF Corporation 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 Corporation 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.

Apples

General Information

Polyram® 80 WP fungicide is effective for controlling 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 1)**. 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 Mixes: 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. Observe all cautions and limitations on labeling of all products used in mixes.

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

Begin application when plants are 4-6 inches high by applying 2 pounds per acre. (Application intervals: 5-10 days. Refer to the **Application Rates and Timings table**.)

Adding a surfactant that has been shown to cause no phytotoxic effect in local experience will improve the performance of the spray solution. 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 in a minimum of 15 gallons per acre.

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

Mixing Instructions

5 of 8
Maintain agitation to keep the material in suspension and apply with properly calibrated equipment.

Tank Mixes: Polyram 80 WP is compatible with most of the potato pesticides with which it might normally be used. Observe all cautions and limitations on labeling of all products used in mixes.

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, should 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 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 to 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 controlling 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 of 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 teaspoons per 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.

Crop	Diseases Controlled	Pounds of Polyram 80 WP Per Application		Remarks (Also refer to Direction For Use)	Restrictions
		100 gallons	Acre		
Apples Use either the "pre-bloom" or "extended application" schedule. Do not combine or integrate the two-treatment schedules	Scab Rust	2.0	6.0	Pre Bloom Use: Begin applications at 1/4-1/2 inch green tip and continue on a 7-10-day schedule through bloom.	Do not exceed 7 applications per season. Do not apply after bloom. Do not apply more than 24 pounds per acre per season. Do not graze livestock in treated areas.
		Do not exceed 6 pounds of product per acre per application			
		1.0	3.0	Extended Application Schedule or for Use in Tank Mixtures: 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 1/4-1/2 inch green tip and continue applications on a 7-10-day schedule through the second cover spray or to within 77 days of harvest.	Do not exceed 7 applications per season. Do not apply within 77 days of harvest. Do not apply more than 21 pounds per acre per season. Do not graze livestock in treated areas.
Do not exceed 3 pounds of product per acre per application					
Potatoes	Early Blight Late Blight	2.0	2.0	Begin application when plants are 4-6 inches high by applying 2 pounds per acre. (Application intervals: 5-10 days.) Adding a surfactant that has been shown to cause no phytotoxic effect in local experience will improve the performance of the spray solution. Also vine kill should occur 14 days before harvest.	Do not apply more than 14 pounds 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.
		Do not exceed 2 pounds of product per acre per application			
Roses	Cercospora Leaf Spot Rust Black Spot	1.0-1.5	1.0-1.5	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 pound per acre; increase to 1.5 pounds per acre if disease pressure increases.	Do not exceed 2 applications per week.
		Do not exceed 1.5 pounds of product per acre per application			

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.

*Polyram is a registered trademark of BASF AG.
Kelthane is a trademark of Rohm and Haas Company.*

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