


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

 <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 M St., S.W. Washington, D.C. 20460</p> <p>NOTICE OF PESTICIDE: <u> X </u> Registration <u> </u> Reregistration</p> <p>(under FIFRA, as amended)</p>	<p>EPA Reg. Number: 7969-105</p>	<p>Date of Issuance: FEB 05 1993</p>
	<p>Term of Issuance: Conditional</p>	
	<p>Name of Pesticide Product: Polyram 80 DF</p>	
<p>Name and Address of Registrant (include ZIP Code): BASF Corporation P.O. Box 13528 Research Triangle Park, NC 27709-3528</p>		
<p>Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4. Revise the label by the following: <ol style="list-style-type: none"> Add the phrase 'EPA Registration No. 7969-105'. In the ingredient statement, delete the hyphen between "[ethylenebis(dithiocarbamate)]" and "zinc". 		
<p>Signature of Approving Official: <i>Benjamin C. Chambliss for Susan T. Lewis</i></p>	<p>Date: FEB 05 1993</p>	

EPA Form 1320-1A

CONCURRENCES

SYMBOL	H7505C	H7505C					
SURNAME	CHAMBLISS	CHAMBLISS					
DATE	2/5/93	2/5/93					

c. Under the Storage and Disposal instructions, the sentence "Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal" should be removed from the Pesticide Storage heading and placed directly under the main Storage and Disposal heading.

3. Submit five copies of the final printed label for the record.

4. Within eight (8) months of the issuance of this registration, you must submit acceptable Eye and Dermal Irritation studies to support this product.

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

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

H7505C:J.Fairfax:7969-105:2/2/93

398

BASF

POLYRAM[®] 80 DF

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

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.

Precautionary Statements

CAUTION

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. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. In case of contact immediately flush eyes or skin with plenty of water; get medical attention. All agricultural workers/handlers (i.e. mixers, loaders, and applicators) applying POLYRAM 80 DF must wear coveralls over long-sleeved shirt and long pants, shoes, socks, and chemical-resistant gloves. During mixing and loading, a chemical-resistant apron and goggles or a face shield must also be worn.

Environmental Hazards

The 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.

Physical or Chemical Hazards

Protect from excessive heat. For emergency assistance call CHEMTREC 800-424-9300. See other panels for additional precautionary information.

Net weight 50 Pounds

BASF Corporation

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

ACCEPTED
COMMENTS
in Letter Dated:

FEB 05 1993

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

7969-105

Specimen Label

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. Keep all unprotected persons, children, livestock and pets away from treated area or where there is danger of drift. Do not rub eyes or mouth with hands. See Statement of Practical Treatment.

HANDLE THIS PRODUCT ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT: All agricultural workers/handlers (i.e., mixers, loaders, and applicators) applying POLYRAM 80 DF must wear coveralls over long-sleeved shirt and long pants, shoes, socks, and chemical-resistant gloves. During mixing and loading, a chemical-resistant apron and goggles or a face shield must also be worn.

For agricultural workers, where completely enclosed cab with positive pressure filtration or an enclosed cockpit for aerial application are used, a long-sleeved shirt and long pants may be worn in place of the above protective clothing. Chemical-resistant gloves must be available in the cab or cockpit and worn while exiting. The gloves must be kept in an enclosed container in the cab or cockpit to prevent contamination of inside of the cab or cockpit.

During aerial application, human flaggers are prohibited unless in totally closed vehicles.

IMPORTANT!! Before removing gloves, wash them thoroughly with soap and water. Always wash hands, face, and arms with soap and water before eating, smoking or drinking. Always wash hands and arms with soap and

water before using the toilet.

After work take off all clothes and shoes. Shower using soap and water. Wear only clean clothes. Do not use contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with POLYRAM 80 DF must be destroyed according to state and local regulations.

HEAVILY CONTAMINATED OR DRENCHED CLOTHING CAN NOT BE ADEQUATELY DECONTAMINATED.

Individuals applying this product must wear a long-sleeved shirt, long pants and chemical-resistant gloves. The gloves must be washed thoroughly with soap and water before removal. Clothing must be changed immediately after using POLYRAM 80 DF and must be laundered separately from other laundry items before reuse. Individuals must shower immediately after use.

Re-entry Statements

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Warnings must include the following information:

CAUTION. Area treated with POLYRAM 80 DF on (date of application). For all uses, do not enter or allow entry into treated areas until the 24-hour re-entry interval has expired unless wearing the personal protective equipment listed on this label.

Storage and Disposal

Pesticide Storage

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

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 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.

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.

APPLES

GENERAL INFORMATION

POLYRAM 80 DF fungicide is effective for the control of apple scab and apple rusts. POLYRAM 80 DF 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 DF 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 DF 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 DF 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 DF 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 DF 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 DF 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 DF per acre per application.

Do not apply more than 4 applications of POLYRAM 80 DF per season.

Do not apply POLYRAM 80 DF after bloom.

Do not apply more than 24 pounds of POLYRAM 80 DF per acre per year.

Extended Application or Use in Tank Mixtures

Do not apply more than 3 pounds of POLYRAM 80 DF per acre per application.

Do not apply more than 7 applications of POLYRAM 80 DF per season.

Do not apply more than 21 pounds of POLYRAM 80 DF per acre per year.

Do not apply within 77 days of harvest.

POTATOES

GENERAL INFORMATION

POLYRAM 80 DF fungicide is effective for the control of early blight and late blight. POLYRAM 80 DF 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 DF 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 DF for potatoes are based on an application of 100 gallons per acre of dilute spray.

Apply POLYRAM 80 DF 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 DF is compatible with most of the potato pesticides with which it might normally be used. Do not apply POLYRAM 80

DF 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 DF per acre per application.

Do not apply more than 14 pounds of POLYRAM 80 DF per acre per season.

Do not exceed 7 applications of POLYRAM 80 DF 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 DF fungicide is effective for the control of Cercospora Leaf Spot, Rust, and Black Spot of roses. POLYRAM 80 DF 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 DF be used in an Integrated Pest Management program. Spray POLYRAM 80 DF 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 DF on roses.

Method of Application

Rates of POLYRAM 80 DF 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 DF per week.

APPLICATION RATES AND TIMING

Apples Use either the "pre-bloom" or "extended application" schedule. Do not combine or integrate the two-treatment schedules.	Scab Rusts	2.0	6.0	Pre Bloom Use: Begin applications at 1/8 to 1/4 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			
		Rates are based on 300 GPA		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 1/8 to 1/4 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.	
		Do not exceed 3 lb product per acre per application				
Potatoes	Early Blight Late Blight	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
Roses	Cercospora Leaf Spot Rust Black Spot	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

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.
© 1992 BASF Corporation*