

2022-0975
2022-03-04

Booklet

GROUP	M ²	FUNGICIDE
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POLYRAM® DF WSP

FUNGICIDE

FOR FOLIAR USE ON POTATOES ONLY

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: Metiram 80%

WARNING, contains the allergen soy

REGISTRATION NO. 33496

PEST CONTROL PRODUCTS ACT

POTENTIAL SKIN SENSITIZER

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT
1-800-454-2673**

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 5.25 kg (42 PVA bags per pouch; 0.125 kg per PVA bag)

BASF Canada Inc.
5025 Creekbank Road
Building A, 2nd Floor
Mississauga, Ontario L4W 0B6

1-877-371-2273

POLYRAM is a registered trademark of BASF SE, used under license by BASF Canada Inc.

DIRECTIONS FOR USE

POLYRAM DF WSP may be used in low volume or concentrate sprays by increasing the dosage to apply the same quantity of **POLYRAM DF WSP** per hectare as would normally be applied when spraying dilute mixtures. Apply in sufficient water for thorough coverage of all plant parts; this volume depends on spray equipment and size of plants or trees.

POLYRAM DF WSP Application Rate Table

CROP/DISEASE	RATE/METHOD
POTATO Early Blight Late Blight	Apply at 7-10 day intervals using 1.125 (9 PVA bags) to 1.75 kg (14 PVA bags) per hectare until plants cover the row. Then use 1.125 kg (9 PVA bags) to 1.75 kg (14 PVA bags) per hectare at 7 day intervals starting when plants are 15 cm high and continuing until top killing. When conditions (rain or dew) favour infections, use the shorter intervals in each case. For aircraft application , use 55 litres of water per hectare. May be applied up to the day before harvest.

A maximum of 3 applications per year is allowed on potatoes at a maximum application rate of 1.40 kg a.i./ha with 7-day application intervals and a 14-day pre-harvest interval using aerial or ground spray only.

The total seasonal application of mancozeb and metiram combined cannot exceed 10 applications per year with no more than 3 applications being metiram.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. The nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

Buffer zones

Spot treatments using hand-held equipment **DO NOT** require a buffer zone.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop		Buffer Zones (metres) Required for the Protection of:				Terrestrial Habitat
			Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Potato		5	3	2	1	1
Aerial	Potato	Fixed wing	450	60	40	15	55
		Rotary wing	225	45	30	10	45

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

Aerial Application

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specific buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in finer particles (mist). Do not apply during periods of dead calm or when wind

velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-877-371-BASF (2273) or obtain technical advice from the distributor or your provincial agricultural representative.

COMPATIBILITY

POLYRAM DF WSP is compatible with most commonly used insecticides, adjuvants and fungicides, including Superior Oil. Mixtures of **POLYRAM DF WSP** with Diazinon or Malathion should be prepared immediately prior to use and not allowed to stand in the spray tank. **POLYRAM DF WSP** can be mixed with liquid fertilizers after a physical compatibility test has been conducted. Apply solution immediately after mixing. Opened bags should be sealed if stored until following season.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **POLYRAM DF WSP** contains a Group M² fungicide. Any fungal population may contain individuals naturally resistant to **POLYRAM DF WSP** and other Group M² fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of **POLYRAM DF WSP** or other Group M² fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group when such use is permitted.

- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact BASF at 1-877-371-2273.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Do not take internally.
3. **POLYRAM DF WSP** is a potential skin sensitizer. Avoid inhalation of vapour, dust, or spray mist and contact with eyes, skin or clothing.
4. Wash thoroughly after handling and before eating, drinking or smoking.
5. Wear coveralls over long pants and long-sleeved shirts and chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up, and repair. Gloves are not required during application within a closed cab or cockpit. Aerial applicators must wear long pants and long-sleeved shirts.

During open-cab ground boom application, applicators must wear either a respirator with a NIOSH approved organic-vapour-removing cartridge with a pre-filter approved for pesticides OR a NIOSH approved canister approved for pesticides OR use a closed-cab tractor that provides respiratory protection (such as dust/mist filtering system and/or vapour/gas purification system) for ground boom application.
6. If clothing becomes contaminated, remove and wash separately from household laundry before re-use.
7. Clean spray equipment thoroughly after use.
8. Do not contaminate domestic or irrigation water, lakes, streams or ponds by the cleaning of equipment or the disposal of wastes.
9. Do not apply when environmental conditions may cause drift from treated area.

10. Apply only when the potential for drift to non-target areas of human habitation or human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
11. DO NOT enter treated areas during the restricted-entry intervals of 30 days after treatment for hand-set irrigation; 5 days after treatment for roguing, and 12 hours after treatment for all other activities.
12. PVA bags are water soluble and will dissolve in water. After opening the outer package, drop the required number of unopened pouches into the spray tank as directed. Avoid handling the water soluble bag as this may cause breakage. Do not allow bags to become wet prior to adding to the spray tank. Reseal outer package to protect remaining bags.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms, non-target terrestrial plants, birds and small wild mammals. Observe buffer zones specified under DIRECTIONS FOR USE.

TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of **POLYRAM DF WSP** in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

FIRST AID

If swallowed: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

STORAGE

1. To prevent contamination, store this product away from food or feed.
2. Store in original, tightly-closed, container.
3. Do not ship or store near food, feed, seed, or fertilizers.
4. Store in cool, dry, locked, well-ventilated area without floor drain.
5. Herbicides should be shipped and stored separately from other pesticides to avoid cross-contamination.
6. Keep away from heat, fire or sparks. Do not allow product to become wet or overheated as this will reduce its effectiveness and may create flammable vapours.
7. Protect from freezing.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.
6. If PVA bag breaks, follow provincial instructions for any required additional cleaning of the container prior to its disposal.

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NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

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PVA Bag

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