



GROUP **7** FUNGICIDE

# PENRED 240FS

## Flowable Fungicide

PENRED 240FS is a flowable liquid fungicide which provides protection against certain seed-borne and soil-borne diseases on labelled crops. PENRED 240FS may also be used as an in-furrow application to potato.

All seed treated with this product must be conspicuously coloured at the time of treatment. No open transfer is permitted in commercial seed treatment facilities.

SUSPENSION

AGRICULTURAL

GUARANTEE: Penflufen 240 g/L

Contains 1,2 benzisothiazolin-3-one at 0.03% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009% and 2-methyl-4-isothiazolin-3-one at 0.0003% as preservatives.

REGISTRATION NO. 30360 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

PROTECT FROM FREEZING

NET CONTENTS 1L - 1000L, 15000L (bulk tanker)

Bayer CropScience  
Suite 200, Quarry Park Blvd. SE  
Calgary, AB T2C 3G3

For product information, call: 1-800-283-6847

In case of spills, poisoning, fire or other emergencies,  
call: 1-800-334-7577 (24 hours a day)

PENRED 240FS is a broad spectrum fungicide with systemic properties recommended for the control of certain diseases. PENRED 240FS provides protection from seed, seedling and soil-borne diseases on labelled crops.

## DIRECTIONS FOR USE:

Refer to the attached booklet for specific use directions for each crop and detailed instructions on rates, diseases controlled, application timing and technique.

## Precautions, Protective Clothing and Equipment:

### PRECAUTIONS:

#### KEEP OUT OF REACH OF CHILDREN.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

Commercial seed treatment facilities must use closed transfer equipment only including closed mixing, loading, calibrating, and treatment equipment. No open transfer of PENRED 240FS is permitted in commercial seed treatment facilities.

All mixers, loaders, applicators and other handlers must wear:

- long sleeved shirt and long pants,
- socks plus shoes,
- chemical resistant gloves, except when bagging or sewing bags of treated seeds,

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing/PPE 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

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at [www.croplife.ca](http://www.croplife.ca).

### 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 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.

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.

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

**TOXICOLOGICAL INFORMATION:**

Treat symptomatically. Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1-800-334-7577.

**ENVIRONMENTAL HAZARDS:**

Toxic to aquatic organisms. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

Dispose of all excess treated seed. Left over treated seed may be double sown around the headland or buried away from water sources in accordance with local requirements.

DO NOT leave exposed treated seeds on soil surface. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from soil surface.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

**STORAGE:**

To prevent contamination store this product away from food or feed. Store in a cool, dry area. Do not store in direct sunlight. Do not allow prolonged storage in temperatures that exceed 40°C or go below -10°C.

**DISPOSAL:**

DO NOT reuse this container for any purpose. Before disposing of the container it should be triple rinsed. See section "TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL" when triple rinsing, use closed transfer systems only. No open transfer.

For information on 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.

**FOR NON-RETURNABLE CONTAINERS:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction 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.

**FOR RECYCLABLE CONTAINERS:**

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1) Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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**FOR RETURNABLE CONTAINERS:**

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

**FOR REFILLABLE CONTAINERS:**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

**TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY):**

**TRIPLE RINSE INSTRUCTIONS (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY):** This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment. Follow these steps for rinsing of containers:

1. Transfer PENRED 240FS from the container to the seed treating equipment applicator tank.
2. Add 1/3 of the rinse water to the container and agitate the contents.
3. Transfer the rinsate to the applicator tank.
4. Rinse as above 2 more times.
5. Thoroughly mix the PENRED 240FS and rinse water in the applicator tank prior to use.

**CAUTION:** Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

**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. The user assumes the risk to persons or property that arises from any such use of this product.



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Contains 1,2 benzisothiazolin-3-one at 0.03% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009% and 2-methyl-4-isothiazolin-3-one at 0.0003% as preservatives.

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## GENERAL INFORMATION

### Section 1: The Product

PENRED 240FS is a broad spectrum fungicide with systemic properties recommended for the control of certain diseases. PENRED 240FS provides protection from seed, seedling and soil-borne diseases on labelled crops. Refer to the specific use directions for each crop for detailed instructions on rates, diseases controlled, application timing and technique.

## SAFETY AND HANDLING

### Section 2: Precautions, Protective Clothing and Equipment

#### PRECAUTIONS:

#### KEEP OUT OF REACH OF CHILDREN.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

Commercial seed treatment facilities must use closed transfer equipment only including closed mixing, loading, calibrating, and treatment equipment. No open transfer of PENRED 240FS is permitted in commercial seed treatment facilities.

All mixers, loaders, applicators and other handlers must wear:

- long sleeved shirt and long pants,
- socks plus shoes,
- chemical resistant gloves, except when bagging or sewing bags of treated seeds,

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing/PPE 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

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at [www.croplife.ca](http://www.croplife.ca).

### Section 3: First Aid and Toxicological Information

#### 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.

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

#### TOXICOLOGICAL INFORMATION:

Treat symptomatically. Medical Personnel should contact Bayer's Medical Information Services, Toll-Free: 1-800-334-7577.

### Section 4: Environmental Hazards

#### ENVIRONMENTAL HAZARDS:

Toxic to aquatic organisms. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

Dispose of all excess treated seed. Left over treated seed may be double sown around the headland or buried away from water sources in accordance with local requirements.

DO NOT leave exposed treated seeds on soil surface. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from soil surface.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

## Section 5: Storage

**STORAGE:** To prevent contamination store this product away from food or feed. Store in a cool, dry area. Do not store in direct sunlight. Do not allow prolonged storage in temperatures that exceed 40°C or go below -10°C.

## Section 6: Disposal

**DISPOSAL:** DO NOT reuse this container for any purpose. Before disposing of the container it should be triple rinsed. See section “TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL” when triple rinsing, use closed transfer systems only. No open transfer.

For information on 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.

### FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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### FOR REFILLABLE CONTAINERS:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

### TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY):

TRIPLE RINSE INSTRUCTIONS (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY): This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment. Follow these steps for rinsing of containers:

1. Transfer PENRED 240FS from the container to the seed treating equipment applicator tank.
2. Add 1/3 of the rinse water to the container and agitate the contents.
3. Transfer the rinsate to the applicator tank.
4. Rinse as above 2 more times.
5. Thoroughly mix the PENRED 240FS and rinse water in the applicator tank prior to use.

CAUTION: Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

## Section 7: Notices

### 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. The user assumes the risk to persons or property that arises from any such use of this product.

## DIRECTIONS FOR USE

## Section 8: Pests Controlled

PENRED 240FS, containing the fungicide penflufen, provides protection against seed, seedling and soil-borne diseases. PENRED 240FS does not control bacterial diseases within the seed.

## Section 9: Recommended Uses

PENRED 240FS is for use in commercial seed treatment operations and for on-farm treating with conventional seed treating equipment which can accurately meter and apply flowable seed treatment formulations. PENRED 240FS may also be used as an in-furrow application to potato.

This product is recommended to be diluted with water or another suitable liquid just prior to application to ensure uniform coverage on the seed during the application process. Uniform application to seed is necessary to ensure optimum performance. Allow seeds to dry before bagging, storing or seeding. Refer to the specific use directions for each crop for detailed instructions on rates, application timing and technique.

Oilseeds, Legumes, Soybean, Cereal Grains, Corn, Sorghum and Alfalfa:

CROP	PEST	APPLICATION RATE	DIRECTIONS
Canola, rapeseed, mustard (oilseed and condiment), flax (linseed), crambe, borage	Seed rot / pre-emergence damping-off and post-emergence damping-off caused by soil-borne <i>Rhizoctonia solani</i>  Seed rot / pre-emergence damping-off caused by soil-borne <i>Fusarium</i> spp.	Apply 62.5 mL per 100 kg of seed	PENRED 240FS is designed for commercial or on-farm treating with conventional seed treating equipment which can accurately control application rates and provide a good distribution of the chemical onto the seed in the mixing chamber.  Uniform application to seed is necessary to ensure optimum product performance.
Sunflower, safflower	Seedling blight caused by soil-borne <i>Rhizoctonia solani</i>	Apply 21 mL per 100 kg of seed	
Beans and Peas, including Soybean (Crop Group 6): Soybean, Adzuki Bean, Asparagus Bean, Broad Bean (Succulent or Dry), Catjang Bean, Chinese Longbean, Field Bean, Guar Bean, Jackbean, Kidney Bean, Lablab Bean, Lima Bean (Succulent or Dry), Moth Bean, (Succulent or Dry), Mung Bean, Navy Bean, Pinto Bean, Rice Bean, Runner Bean, Snap Bean, Sword Bean, Tepary Bean, Urd Bean, Wax Bean, Yardlong Bean, Blackeyed Pea (Succulent or Dry), Chickpea, Cowpea (Succulent or Dry), Crowder Pea, Dwarf Pea, Edible-Pod Pea, English Pea, Field Pea, Garden Pea, Green Pea, Pigeon Pea (Succulent or Dry), Snow Pea, Southern Pea (Succulent or Dry), Sugar Snap Pea, Grain Lupin, Sweet Lupin, White Sweet Lupin, Lentil	Seed rot / pre-emergence damping-off, post-emergence damping-off and early-season root rot caused by soil-borne <i>Rhizoctonia solani</i> and <i>Fusarium</i> spp.  Seedling blight caused by seed-borne <i>Botrytis cinerea</i>	Apply 21 mL per 100 kg of seed	

CROP	PEST	APPLICATION RATE	DIRECTIONS
Wheat, barley, oats, rye, triticale	Loose smut ( <i>Ustilago tritici</i> , <i>Ustilago avenae</i> )  Common bunt ( <i>Tilletia caries</i> , <i>Tilletia laevis</i> )  True Loose smut ( <i>Ustilago nuda</i> )   Leaf stripe ( <i>Pyrenophora graminea</i> )  Stem smut ( <i>Urocystis occulta</i> )	Apply 21 mL per 100 kg of seed	PENRED 240FS is designed for commercial or on-farm treating with conventional seed treating equipment which can accurately control application rates and provide a good distribution of the chemical onto the seed in the mixing chamber.  Uniform application of seed is necessary to ensure seed safety and best disease protection.
Winter wheat	Pink snow mould ( <i>Monographella nivalis</i> ) - suppression	Apply 21 mL per 100 kg of seed	
Corn (field, sweet, popcorn), sorghum	Seed rot / pre-emergence damping-off caused by soil-borne <i>Rhizoctonia solani</i>	Apply 10.5 - 21 mL per 100 kg of seed	
Alfalfa	Seed rot / pre-emergence damping-off caused by soil-borne <i>Rhizoctonia solani</i>	Apply 42 – 62.5 mL per 100 kg of seed	

TANK-MIXTURES: For control of additional diseases not on the PENRED 240FS product label, PENRED 240FS may be tank-mixed with certain seed treatment fungicides noted below. Refer to the registered label of the tank-mix partner(s) for application rates, precautions and directions for use associated with those products, and follow the most restrictive label precautions and limitations.

CROP	TANK-MIX PARTNER
Bean (succulent, snap and dry) Chickpea, Lentil, Pea (dry and field), Soybean, Soybean (immature seed) Wheat, barley, oats, rye (export only) Corn (field, sweet) Sorghum (export only) Canola, rapeseed, sunflower	Allegiance FL

Potato:

CROP	PEST	APPLICATION RATE	DIRECTIONS
Potato	<p>Seed-borne black scurf and stem and stolon canker caused by <i>Rhizoctonia solani</i></p> <p>Silver scurf caused by <i>Helminthosporium solani</i></p>	<p>Seed Piece Treatment:</p> <p>Apply 8.5 mL per 100 kg of seed pieces</p>	<p>Seed Piece Treatment:</p> <p>For optimal disease control, good coverage of the seed piece is required. Apply specified dosage as a diluted spray using equipment that ensures uniform coverage of each seed piece. Apply no more than 150 ml of slurry / 100 kg of seed pieces. Agitate or stir the slurry solution as needed.</p> <p>Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist or dust. It is recommended to periodically clean and sanitize all surfaces which may come in contact with cut seed pieces (i.e. Cutting machines, tables, knives, planting equipment etc.).</p> <p>Seed pieces should be treated immediately after cutting. Plant seed pieces as soon as possible after cutting and treating.</p> <p>Do not use treated seed pieces for food, feed, or fodder.</p> <p>As part of the seed cutting and treating process, application of an absorbent ingredient is recommended to improve suberization. If cut seed needs to be stored or held for a few days, make sure that there is adequate cool air movement through the pile of cut seed potatoes at relative humidity of 85-90%. Store cut seed at or below 7°C. Temperatures above 10 °C promote soft rot in seed. Cut and treated seed should not be piled above 1.8 m in height.</p> <p>After cutting, treated seed pieces should be planted in soil above 7°C with adequate soil moisture required for planting.</p> <p>When transporting PEN240FS treated seed, make sure the seed is covered.</p> <p>For added protection against soil-borne <i>Rhizoctonia solani</i>, apply penflufen in-furrow in addition to the seed piece application</p>
	<p>Soil-borne black scurf and stem and stolon canker caused by <i>Rhizoctonia solani</i></p>	<p>In-furrow treatment:</p> <p>Apply 4 mL per 100 meter of row</p>	<p>In-furrow Treatment:</p> <p>Apply as an in-furrow spray in 50 to 140 L/ha of water at planting.</p> <p>For best results, mount the spray nozzle to direct the spray as a 15-20 cm band onto the seed pieces in the furrow just before the seed is covered.</p> <p>Best control of soil-borne <i>Rhizoctonia solani</i> is obtained if the in-furrow treatment is preceded by a seed treatment with penflufen</p>
<p>Limitations: Total applications of PENRED 240FS, either as seed or in-furrow treatments, must not exceed 666 mL/ha (or 160 g penflufen/ha) per season in potato.</p>			

TANK MIXTURES: PENRED 240FS may be tank mixed with Titan ST Insecticide for application as a seed piece treatment of potato. Refer to the registered label of each tank-mix

partner for application rates, precautions and directions for use associated with those products, and follow of the most restrictive label precautions and limitations.

#### SEQUENTIAL TREATMENT:

For control of Fusarium dry rot, treat potato seed pieces with a dust seed piece treatment registered for Fusarium dry rot following the application of PENRED 240FS.

PENRED 240FS must be utilized as part of a total integrated approach to disease management. This approach involves the use of cultural, mechanical and, where required, other chemical techniques. These techniques include but are not limited to the use of high quality seed, crop rotation, optimal planting and harvest timing, proper handling of tubers, proper sanitation to reduce inoculum levels and the use of post harvest fungicide applications of alternative chemistries to reduce disease in storage.

### Section 10: Application Cautions

DO NOT apply this product or treated seeds directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.

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

#### SEED QUALITY AND STORAGE OF TREATED SEED:

Laboratory and field studies have shown that PENRED 240FS applied to listed seed will not adversely affect germination. Due to seed quality conditions beyond the control of Bayer CropScience, no claims are made to guarantee germination of carry-over seed. Treatment of mechanically scarred or damaged seed, or of seed known to be of low germ, low vigour and poor quality is not recommended.

Treatment of highly mechanically damaged seed, or seed of known low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. If seed lot quality is unknown, conduct a germination test on a small portion of seed before committing the total seed lot to a selected chemical treatment. Treatment of sprouted potato seed which is known to be of poor quality or low vigour may result in reduced germination and/or seedling vigour. Avoid treating excessively sprouted potato seed. Due to seed quality conditions beyond the control of Bayer CropScience, no claims are made to guarantee germination of carry-over seed.

COLOURATION OF TREATED SEED (Seed Treatment Applications): This product contains a pigment which will colour the treated seed. However, users are responsible for ensuring that the treated seed, when dried and ready for bagging, storage or seeding, has an unnatural colour. If the pigment contained in the formulation does not colour the seed adequately, additional colourant must be added to the mixture while treating the seed. Regulations pertaining to colouration of treated seed enforced under the *Seeds Act* must be strictly adhered to when using this product.

## Section 11: Use Limitations

### USE RESTRICTIONS:

DO NOT use treated seed for food, feed or oil processing.

### LABELLING TREATED SEED:

All bags containing treated seed must be labelled or tagged as follows:

- This seed has been treated with PENRED 240FS seed protectant, which contains penflufen. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants, and chemical-resistant gloves when handling treated seed.

### ROTATIONAL CROPS:

Registered seed treatment crops and potatoes may be replanted at any time. All other crops may be planted after 30 days.

## Section 12: Resistance Management Recommendations

### RESISTANCE MANAGEMENT

For resistance management, please note that PENRED 240FS contains a Group 7 fungicide. Any fungal population may contain individuals naturally resistant to PENRED 240FS and other Group 7 fungicide. 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 PENRED 240FS or other Group 7 fungicide with different groups that control the same pathogens.
- 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.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Bayer CropScience at 1-888-283-6847 or at [www.bayercropscience.ca](http://www.bayercropscience.ca).

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