

2024-0349
2024-02-02

(Sleeve)

GROUP	4	FUNGICIDE
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Precinct™ Fungicide

SUSPENSION

COMMERCIAL (AGRICULTURAL)

A seed treatment fungicide for control of early season *Phytophthora* root rot, systemic downy mildew, and *Pythium* damping-off and seed rot diseases of certain crops.

ACTIVE INGREDIENT:

Metalaxyl-M and S-isomer.....46.9 %

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



WARNING

POISON

EYE IRRITANT

For all labelled seed, only commercial seed treatment (facilities and mobile treaters) is permitted, with closed or open transfer and treatment equipment.

For barley, oats, rye, sorghum and some low tannin lentil varieties, treated seed are for EXPORT ONLY and NOT FOR DOMESTIC SALE OR PLANTING IN CANADA.

For cucurbit, *Brassica* and fruiting vegetables, DO NOT TREAT SEED IN CANADA. FOR IMPORT USE ONLY. Treated seed may be planted in Canada.

All seed treated with this product must be conspicuously coloured at the time of treatment.

REGISTRATION NO.: 35089 PEST CONTROL PRODUCTS ACT

Net Contents : 1 – 55 Litres
Nufarm Agriculture Inc.
5101, 333 – 96th Ave NE
Calgary, Alberta T3K 0S3
1-800-868-5444

24-Hour Emergency Response Number 1-800-424-9300

PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN.

May be fatal if swallowed. Causes eye irritation. DO NOT get in eyes.

Avoid contamination of feed and foodstuffs.

Apply only in a way that this product will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area where treating, bagging, sewing and/or stacking is occurring.

Treat seed in a well-ventilated area.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Nufarm Agriculture Inc. at 1-800-868-5444.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Avoid prolonged contact with skin. Avoid inhalation of vapours, spray mist or treated seed dust.

During mixing, loading, treating, calibrating, cleaning, repairing, handling and planting treated seed, wear coveralls over a long-sleeved shirt, long pants, socks, chemical-resistant footwear and chemical-resistant gloves. In addition, wear protective eyewear (goggles or face shield) when handling the concentrate and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when bagging or sewing bags of treated seed, or when transferring seed to a storage bin.

Closed or open transfer and treatment equipment are permitted. For planting, use an open- or closed-cab tractor. Gloves are not required within a closed cab.

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 with soap and water before removing.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Wear freshly laundered clothes daily.

Wash hands and face after handling and before eating or smoking.

FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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.

TOXICOLOGICAL INFORMATION

Treat symptomatically. Contact with eyes may require specialized ophthalmologic examination.

ENVIRONMENTAL PRECAUTIONS

Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface.

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

USE RESTRICTIONS

Treated seed must not be used for food, feed or oil processing.

DO NOT use in hopper-box, planter-box, slurry-box or other non-commercial seed treatment applications at, or immediately before, planting.

All containers or packages containing treated seed for sale or use in Canada must be labelled or tagged as follows: **“KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS. This seed has been treated with Precinct Fungicide which contains metalaxyl-M and S-isomer. During handling and planting treated seed, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear. In addition, wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when bagging or sewing bags of treated seed, or when transferring seed to a storage bin. DO NOT plant treated seeds by hand. DO NOT graze or feed livestock on seeded area for four weeks after planting. DO NOT use for food, feed or oil processing. Store away from food and feed. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface.”**

All containers or packages containing treated seed for export must be labelled or tagged as follows: **FOR EXPORT ONLY – NOT FOR DOMESTIC SALE OR PLANTING IN CANADA. KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMAL. This seed has been treated with Precinct Fungicide which contains metalaxyl-M and S- isomer. During handling treated seed, wear a long-sleeved shirt, long pants,**

chemical-resistant gloves, socks and chemical-resistant footwear. In addition, wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when bagging or sewing bags of treated seed, or when transferring seed to a storage bin. DO NOT use for food, feed or oil processing. Store away from food and feed. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface.”

EMERGENCY TELEPHONE NUMBERS

For spills or transportation accidents, Chemtrec, 1-800-424-9300.

For health or environmental emergencies, ProPharma Group, 1-877-325-1840.

For product and use information, Nufarm Agriculture Inc., 1-800-868-5444.

DISPOSAL

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

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.

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.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

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.

Precinct™ is a trademark of Nufarm Agriculture Inc.

(Booklet)

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All containers or packages containing treated seed for export must be labelled or tagged as follows: **FOR EXPORT ONLY – NOT FOR DOMESTIC SALE OR PLANTING IN CANADA. KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMAL. This seed has been treated with Precinct Fungicide which contains metalaxyl-M and S- isomer. During handling treated seed, wear a long-sleeved shirt, long pants,**

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2. Make the empty, rinsed container unsuitable for further use.

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NOTICE TO USER

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PRODUCT INFORMATION

General Information

Precinct Fungicide is a systemic fungicide seed dressing specifically for the control of diseases caused by soil-borne *Pythium* spp. and *Phytophthora* spp. and for systemic downy mildews.

Note: Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigour and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigour. Treat a small quantity of seed using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of the seed before committing the total seed lot to a selected seed treatment. Due to seed quality and seed storage conditions beyond the control of Nufarm Agriculture Inc., no claims are made to guarantee the germination of carry-over seed.

DIRECTIONS FOR USE

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

Apply **Precinct Fungicide** as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the recommended amount of **Precinct Fungicide** into the required amount of water for the slurry treater and dilution rate to be used. Follow the manufacturer's application instructions for the seed treatment equipment being used. Maintain constant agitation of the slurry during the seed treatment process. Allow the seed to dry before bagging. Depending on planting equipment, seed treated with **Precinct Fungicide** or a combination of **Precinct Fungicide** and MAXIM® 480FS Colourless Seed Treatment Fungicide may not flow through planting equipment at the same rate as untreated seed. Recalibrate this equipment before planting treated seed.

Tank Mixes: This product may be tank mixed with (a fertilizer, a supplement, or with) registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions for Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Nufarm Agriculture Inc. at 1-800-868-5444 for information before mixing any pesticide that is not specifically recommended on this label.

When a rate range is specified, use the higher rate of **Precinct Fungicide** when planting into fields with a history of *Pythium* damping-off disease (*Pythium* spp.) and/or under high disease pressure.

This product contains no colourant. An appropriate colourant must be added when this product is applied to seed. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product. A red colourant must be added when this product is applied to grain.

CROP USE DIRECTIONS

Cereal Grains (Including Forage and Silage)

CROPS	Corn (Field Corn and Popcorn), Sweet Corn, Wheat, Barley (export use only), Oats (export use only), Rye (export use only)
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 – 28 mL/100 kg seed
CROPS	Sorghum (export use only)
DISEASES CONTROLLED	<i>Pythium</i> damping-off on all sorghum cultivars (<i>Pythium</i> spp,)
USE RATE	14 – 28 mL/100 kg seed
DISEASES CONTROLLED	Systemic downy mildew (<i>Peronosclerospora sorghi</i>)
USE RATE	28 – 56 mL/100 kg seed
NOTES	<p>Use low rate for seed on cultivars which possess sorghum downy mildew resistance. For those cultivars which do not possess resistance to a particular race of sorghum downy mildew grown in areas with recent history of severe disease, use high rate.</p> <p>Seed treated with the high rate should be planted and not carried over to the following year.</p> <p>Only high-quality sorghum seed (90% germ and above) should be treated with Precinct Fungicide.</p>

Oilseeds

CROPS	Canola
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 mL/100 kg seed
CROPS	Sunflower
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	28 mL/100 kg seed
DISEASES CONTROLLED	Systemic downy mildew (<i>Plasmopara halstedii</i>)
USE RATE	56 mL/100 kg seed

Legume Vegetables (Succulent or Dry)

CROPS	Soybean Bean (<i>Lupinus</i> spp. - includes Grain Lupin, Sweet Lupin, White Lupin, White Sweet Lupin), Bean (<i>Phaseolus</i> spp. - includes Field Bean, Kidney Bean, Lima Bean, Navy Bean, Pinto Bean, Runner Bean, Snap Bean, Tepary Bean, and WaxBean), Bean (<i>Vigna</i> spp. - includes Adzuki Bean, Asparagus Bean, Blackeyed Pea, Catjang, Chinese Longbean, Cowpea, Crowder Pea, Moth Bean, Mung Bean, Rice Bean, Southern Pea, Urd Bean and Yardlong Bean), Broad Bean, Chickpea, Guar, Jackbean, Lablab Bean, Pea (<i>Pisum</i> spp. – includes Dwarf Pea, Edible-Pod Pea, English Pea, Field Pea, Garden Pea, Green Pea, Snow Pea, Sugar Snap Pea), Pigeon Pea, Soybean (immature seed), Sword Bean
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 – 28 mL/100 kg seed
DISEASES CONTROLLED	Early season <i>Phytophthora</i> root rot (<i>Phytophthora</i> spp.)
USE RATE	28 mL/100 kg seed
NOTES	28 mL of the product delivers 15 g ai/100 kg seed. For soybean, 28 mL rate is equivalent to 0.061 µL/seed (0.023 mg ai/seed) based on a seed weight of 6600 seeds/kg.
CROPS	Lentils
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	5 mL/100 kg seed
NOTES	Use for low tannin varieties which are for domestic seed production or sold for export only.

Grass Forage, Fodder and Hay

CROPS	All Grasses (including Bermuda grass, Bluegrass, and Fescue or Bromegrass) All Gramineae family (either green or cured), except those in the Cereal Grains group, that will be fed to or grazed by livestock All pasture and range grasses and grasses grown for hay or silage
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 – 28 mL/100 kg seed

Turf grasses

CROPS	Turf Grasses
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	28 mL/100 kg seed
NOTES	For turf grass seed for golf courses, home lawns, reclamation, and erosion control projects.

Non-Grass Animal Feeds (Forage, Fodder, Straw and Hay)

CROPS	Sainfoin
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 – 28 mL/100 kg seed
CROPS	Alfalfa, Clover, Trefoil, and Vetch
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,) and early season <i>Phytophthora</i> root rot (<i>Phytophthora</i> spp.)
USE RATE	28 mL/100 kg seed

Root Vegetables

CROPS	Sugar Beet
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 – 28 mL/100 kg seed

Export Use:

For treatment of seed for export, treater should verify actual registered rate in country of destination and/or use before exportation. Seed treated in accordance with the export use pattern must be labelled or tagged as indicated in the USE RESTRICTIONS section.

MINOR USES**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Nufarm Agriculture Inc. under the User Requested Minor Use Label Expansion program. For these uses, Nufarm Agriculture Inc has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

Bulb Vegetables

CROPS	Onion (dry and bunching)
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 mL/100 kg seed
NOTES	One application as a seed treatment

Root Vegetables (Except Sugar Beet)

CROPS	Beet (garden), Burdock (edible), Carrot, Celeriac, Chervil (turnip-rooted), Chicory, Ginseng, Horseradish, Parsley (turnip-rooted), Parsnip, Radish (including oriental), Rutabaga, Salsify (oyster plant, black and Spanish), Skirret, Turnip
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 – 28 mL/100 kg seed
NOTES	One application as a seed treatment

Cucurbit Vegetables

CROPS	Chayote, Chinese Waxgourd, Citron Melon, Cucumber, Gherkin, Gourd Edible (includes Hyotan, Cucuzza, Hechima, Chinese Okra), Momordica, all Muskmelon, Pumpkin, all Squash, and Watermelon
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 – 28 mL/100 kg seed
NOTES	One application as a seed treatment. DO NOT TREAT SEEDS IN CANADA. For import use only – not for domestic commercial or on-farm seed treatment.

Leafy Vegetables

CROPS	Amaranth, Arugula, Corn Salad, Dandelion Leaves, Dock, Edible Leaved Chrysanthemum, Endives, Fresh Chervil Leaves, Garden Cress, Garden Purslane, Garland Chrysanthemum, Head Lettuce, Leaf Lettuce, New Zealand Spinach, Orach Leaves, Parsley Leaves, Radicchio, Spinach, Upland Cress, Vine Spinach, Winter Purslane
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 – 28 mL/100 kg seed
NOTES	One application as a seed treatment. Do not apply Precinct Fungicide to leafy greens which are destined to be grown in the greenhouse. Containers of bags containing Precinct Fungicide treated leafy greens seed must be labelled with the restriction "Do not use seed for leafy greens destined to be grown in the greenhouse."

Brassica Vegetables

CROPS	Crop Group 5A: Broccoli, Chinese Broccoli, Brussels Sprouts, Cabbage, Chinese Napa Cabbage, Chinese Mustard Cabbage, Cauliflower, Cavalo Broccoli, Kohlrabi
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 – 28 mL/100 kg seed
NOTES	One application as a seed treatment. DO NOT TREAT SEEDS IN CANADA. For import use only – not for domestic commercial or on-farm seed treatment. DO NOT plant treated seed by hand.

Fruiting Vegetables

CROPS	Crop Group 8: Eggplant, Groundcherry, Pepino, Bell Pepper, Chili Pepper, Cooking Pepper, Pimento, Sweet Pepper, Tomatillo, Tomato
DISEASES CONTROLLED	<i>Pythium</i> damping-off (<i>Pythium</i> spp,)
USE RATE	14 – 28 mL/100 kg seed
NOTES	One application as a seed treatment. DO NOT TREAT SEEDS IN CANADA. For import use only – not for domestic commercial or on-farm seed treatment. Do not plant treated seed by hand.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **Precinct Fungicide** contains a Group 4 fungicide. Any fungal population may contain individuals naturally resistant to **Precinct Fungicide** and other Group 4 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 **Precinct Fungicide** or other Group 4 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development. Notify Nufarm Agriculture Inc. if reduced sensitivity of the pathogen to **Precinct Fungicide** is suspected.
- 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 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 Nufarm Agriculture Inc. at 1-800-868-5444 or at www.nufarm.ca.

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