

2020-0611

2021-06-23

<Container Label>

GROUP

M 01

FUNGICIDE

# ULTIM FUNGICIDE

COMMERCIAL  
Wettable Powder

Seed Treatment Fungicide

Fungicidal seed treatment for the control of seed rot/pre-emergence damping off, root rot, post-emergence damping off and seedling blights (*Pythium spp.*), on spinach, peas and corn (field, popcorn, seed and sweet).

ACTIVE INGREDIENT: Elemental copper, present as copper hydroxide...50%

All seed treated with this product must be conspicuously coloured at the time of treatment. This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to colouration of treated seed under the *Seeds Act* must be strictly adhered to when using this product.

**KEEP OUT OF REACH OF CHILDREN**

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING**

REGISTRATION NO. 34127 PEST CONTROL PRODUCTS ACT

WARNING POISON  
DANGER – EYE IRRITANT  
CAUTION – SKIN IRRITANT

Germaines Seed Technology  
8333 Swanston Lane  
Gilroy California 95020  
1-408-848-8120

NET CONTENTS 1 -1,000 KG

## PRECAUTIONS

Harmful if swallowed. May be fatal if inhaled. DO NOT inhale/breathe dust, sprays or mist. Severely irritating to the eye. DO NOT get in eyes. May irritate skin. Avoid contact with skin.

For commercial seed treatment (facilities), use a closed transfer system. Closed transfer includes closed mixing, loading, calibrating and closed treatment equipment. No open transfer is permitted. Wear a long-sleeved shirt, long pants, shoes plus socks, chemical-resistant gloves, goggles, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when handling product, during cleanup and repair of treating equipment, and when handling treated seed.

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 when seed is being treated or bagged.

Treated seed must be labelled as follows: This seed has been treated with Ultim Fungicide; do not use treated seed for food, feed or oil processing. Store away from food and feed. Wear a long-sleeved shirt, long pants, shoes plus socks, chemical-resistant gloves, goggles, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when transferring treated seed to the planter/seeder.

Remove personal protective equipment immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing/personal protective equipment immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

For cleaning/maintaining personal protective equipment, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.

## FIRST AID

**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 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 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 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. Unless extensive vomiting has occurred, empty the stomach by gastric lavage with water, milk, sodium bicarbonate solution, or a 0.1% solution of potassium ferrocyanide. (Gosselin, *Clinical Toxicology of Commercial Products*, 5th ed.). Administration of gastric lavage should be performed by qualified medical personnel. Probable mucosal damage may contraindicate use of gastric lavage.

For medical emergencies call 1-800-424-9300 (24 hours).

## ENVIRONMENTAL PRECAUTIONS

Toxic to birds and small wild mammals. Any spilled or exposed seeds must be incorporated into

the soil or otherwise cleaned-up from the soil surface.

#### **LABELLING OF TREATED SEED**

All containers or packages containing treated seed for sale or use in Canada must be labelled or tagged as follows: *Toxic to birds and small wild mammals. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.*

**STORAGE:** Store this product away from food or feed. Store in a cool place.

#### **DISPOSAL**

1. Completely empty bag into seed treatment slurry tank.
2. Make the empty bag unsuitable for future use. Dispose of the bag in accordance with provincial requirements.
3. For information on disposal of unused, unwanted product, contact the Provincial Regulatory Agency or the manufacturer. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**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.

# ULTIM FUNGICIDE

COMMERCIAL  
Wettable Powder

Seed Treatment Fungicide

Fungicidal seed treatment for the control of seed rot/pre-emergence damping off, root rot, post-emergence damping off and seedling blights (*Pythium spp.*), on spinach, peas and corn (field, popcorn, seed and sweet).

ACTIVE INGREDIENT: Elemental copper present as copper hydroxide...50%

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

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to colouration of treated seed under the *Seeds Act* must be strictly adhered to when using this product.

**KEEP OUT OF REACH OF CHILDREN**

READ BOOKLET BEFORE USING

REGISTRATION NO. 34127 PEST CONTROL PRODUCTS ACT

WARNING POISON  
DANGER – EYE IRRITANT  
CAUTION – SKIN IRRITANT

Germain's Seed Technology  
8333 Swanston Lane  
Gilroy California 95020  
1-408-848-8120

## PRECAUTIONS

Harmful if swallowed. May be fatal if inhaled. DO NOT inhale/breathe dust, sprays or mist. Severely irritating to the eye. DO NOT get in eyes. May irritate skin. Avoid contact with skin.

For commercial seed treatment (facilities), use a closed transfer system. Closed transfer includes closed mixing, loading, calibrating and closed treatment equipment. No open transfer is permitted. Wear a long-sleeved shirt, long pants, shoes plus socks, chemical-resistant gloves, goggles, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when handling product, during cleanup and repair of treating equipment, and when handling treated seed.

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 when seed is being treated or bagged

Treated seed must be labelled as follows: This seed has been treated with Ultim Fungicide; do not use treated seed for food, feed or oil processing. Store away from food and feed. Wear a long-sleeved shirt, long pants, shoes plus socks, chemical-resistant gloves, goggles, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when transferring treated seed to the planter/seeder.

Remove personal protective equipment immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing/personal protective equipment immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

For cleaning/maintaining personal protective equipment, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.

## FIRST AID

**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 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 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 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. Unless extensive vomiting has occurred, empty the stomach by gastric lavage with water, milk, sodium bicarbonate solution, or a 0.1% solution of potassium ferrocyanide. (Gosselin, *Clinical Toxicology of Commercial Products*, 5th ed.). Administration of gastric lavage should be performed by qualified medical personnel. Probable mucosal damage may contraindicate use of gastric lavage.

For medical emergencies call 1-800 424-9300.

## ENVIRONMENTAL PRECAUTIONS

Toxic to birds and small wild mammals. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

**LABELLING OF TREATED SEED**

All containers or packages containing treated seed for sale or use in Canada must be labelled or tagged as follows: *Toxic to birds and small wild mammals. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.*

**DIRECTIONS FOR USE**

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

ULTIM Fungicide is formulated for commercial application for control of seed rot/pre-emergence damping off, root rot, post-emergence damping off and seedling blights (*Pythium* spp.) on spinach, peas and corn (field, popcorn, seed and sweet).

This product may be applied using mechanical, slurry or mist-type seed treating equipment. The equipment must be calibrated and must be able to accurately and uniformly apply the product to the seed. Uniform application of seed treatments is important for ensuring the best disease protection. It may be applied as a water-based slurry in water or in mixtures with other seed treatment products.

When mixing with water, mix the product with the water and allow the mixture to disperse completely until a uniform suspension is obtained.

Ultim Fungicide must be applied in combination with a seed coating designed for copper hydroxide seed treatments. A ProBio CC coating produced by Germains Seed Technology is directed. Use ProBio CC coatings at the rates recommended on the ProBio CC label. Add the coating to the treating slurry prior to application.

When used in a tank mix with other seed treatments, allow each slurry component to disperse completely prior to the next addition. All tank mixes should be pre-tested to determine physical compatibility between formulations. Observe the most restrictive use precautions and limitations on labeling of the products used in mixtures.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Germains Seed Technology at 1-408-848-8120 and ask for a technical representative for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

Contact your local Germains Seed Technology representative or supplier for specific treating recommendations.

**APPLICATION RATES**

Use the specific application rates for the following crops.

Crop	Diseases controlled	Rate Level	Grams of Product Per Unit	Milligrams Product Per Seed	Active Ingredient (Copper) Rate (mg ai/seed)	Adjuvant
Spinach	Seed rot/pre-emergence damping off, post-	Low	7 g/100,000 seeds	0.07	0.035	Ultim Fungicide must be applied with

	emergence damping off, seedling blight, root rot ( <i>Pythium</i> spp.)	High	11.25 g/100,000 seeds	0.1125	0.05625	ProBio CC-1008 seed coat, as per label directions.
Peas† (dry and succulent)		Low	10 g/40,000 seeds	0.25	0.125	Ultim Fungicide must be applied with ProBio CC-1011 seed coat, as per label directions.
		High	16.4 g/40,000 seeds	0.41	0.205	
Corn (sweet, field and seed)		Low	20 g/80,000 seeds	0.25	0.125	Ultim Fungicide must be applied with ProBio CC-1015 seed coat, as per label directions.
		High	32.8 g/80,000 seeds	0.41	0.205	

† “Peas” include succulent and dry peas, including dwarf pea, edible pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea.

Use the higher rate if there is a history of high disease pressures in the field or where field conditions favour incidence of *Pythium*.

### RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that ULTIM Fungicide contains a Group M 01 fungicide, which is generally considered to have a low risk of resistance development. However, as a general principal, it is recommended not to rely exclusively on the same product for pest control. To prolong effectiveness of this product, the following resistance management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of ULTIM Fungicide or other Group M 01 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 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 Germains Seed Technology if reduced sensitivity of the pathogen to ULTIM 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 or pathogens.

For further information or to report suspected resistance, contact Germains Seed Technology at 1-408-848-8120.

**STORAGE:** Store this product away from food or feed. Store in a cool place.

**DISPOSAL**

1. Completely empty bag into seed treatment slurry tank.
2. Make the empty bag unsuitable for future use. Dispose of the bag in accordance with provincial requirements.
3. For information on disposal of unused, unwanted product, contact the Provincial Regulatory Agency or the manufacturer. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**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.