

2018-3212  
2019-02-07



GROUP	M4	FUNGICIDE
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CAPTAN 400  
Liquid Seed Treatment Fungicide

FOR USE BY  
COMMERCIAL SEED TREATERS ONLY

All seeds treated with this product must be conspicuously coloured at the time of treatment. Captan 400 seed protectant is a flowable concentrate especially formulated for the treatment of seed prior to storage and planting. Captan 400 protects seed from molds and other fungi causing storage loss and protects seed from seed borne and soil borne fungi which cause seed decay, damping-off and seedling blights.

Caution: Exposure to captan may produce long term health effects. To minimize exposure, follow directions outlined on this label.

COMMERCIAL ACTIVE  
INGREDIENT: Captan 39.1%  
REGISTRATION NO.: 22819  
PEST CONTROL PRODUCTS ACT  
READ LABEL BEFORE USING

WARNING: CAUSES SEVERE EYE DAMAGE

NET CONTENTS:

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd. SE  
Calgary, AB  
T2C 3G3

For product information, call: 1-888-283-6847

In case of spills, poisoning or fire, telephone emergency response number: 1-800-334-7577  
(24 hours a day).

**Read the entire label and use this product only as specified on this label.**

**DIRECTIONS FOR USE:**

**DO NOT plant treated seed by hand.**

For use by commercial seed treaters only (facilities and mobile treaters).

Thoroughly mix the recommended amount of CAPTAN 400 SEED PROTECTANT into the required amount of water for the slurry treater equipment and dilution rate to be used. Clean equipment thoroughly between operations.

Treatment of seed that is of known low vigour and poor quality or treatment of highly mechanically damaged seed may result in reduced germination. Prior to treating the entire seed lot, treat some of the seed and then perform a germination test to determine if the treatment is affecting seed germination.

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.

**IMPORTANT:** Before using, stir thoroughly to mix contents or use entire container at one time. Do not combine colloidal suspensions, wettable powder or emulsifiable concentrates unless previous experience assures compatibility.

**APPLICATION RATES:**

Application Rates	Range (amount of Captan 400 per 100 kg of seed)	
	Grams	mL
Crop to be Treated		
alfalfa, clover	665	540

**For Imported Treated Seed:**

**DO NOT** treat sugar beets, broccoli, cabbage, cauliflower, and Brussels sprouts seeds in Canada.

Treated seed bags must be labelled or tagged with the following instructions for workers planting treated seed. If seed is not bagged, then the following information must be provided in writing to the farmer through another means, such as a pamphlet:

For all activities involving handling of treated seeds (including planting), wear a long sleeved-shirt, long pants, chemical-resistant gloves, goggles and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit-tested. Closed cabs must be used for planting treated seeds. Respirators and chemical-resistant gloves are not required to be worn within the closed cab as long as the cab is equipped with equivalent respiratory protection (dust/mist filtering and/or vapour/gas purification system), but need to be available for exiting the cab during calibration, repair or cleaning of equipment.

**APPLICATION RATES:**

Application Rates	Range (amount of Captan 400 per 100 kg of seed)	
	Grams	mL
Crop to be Treated (imported seed only)		
cole crops (cauliflower, cabbage, broccoli, Brussels sprouts)	120 – 135	100 – 110
sugar beets	480 – 565	390 - 460

**RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, please note that Captan 400 seed treatment contains a Group M4 fungicide. Any fungal population may contain individuals naturally resistant to Captan 400 seed treatment and other Group M4 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 the site of action but are 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 Captan 400 seed treatment or other Group M4 fungicides with different groups that control the same pests in the field.
- 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 Bayer CropScience Inc. if reduced sensitivity of the pathogen to Captan 400 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 the specific crops and pathogens.
- For further information and to report suspected resistance contact Bayer Cropscience at 1-888-283-6847 or at [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca).

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN**

1. Causes irreversible eye damage. Do not get in eyes. Wear goggles or face shield when handling.
2. May cause allergic skin reactions. Avoid contact with skin and clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and separately launder clothing before reuse.
3. Use closed transfer for commercial seed treatment (facilities and mobile treaters). Closed transfer includes closed mixing, loading, calibrating and closed treatment equipment. No open transfer is permitted. When treating seeds wear a long-sleeved shirt, long pants, shoes plus socks, goggles, chemical-resistant gloves, and a respirator with a NIOSH-approved

- organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides.
4. For all other activities involving the handling of treated seeds (for example, bagging, stacking) wear a long-sleeved shirt, long pants, shoes plus socks, goggles, chemical-resistant gloves, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit-tested.
  5. When cleaning seed treatment equipment, wear chemical-resistant coveralls over long sleeved shirt, long pants, chemical-resistant footwear, socks, goggles, chemical-resistant gloves and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides.
  6. Do not wear contaminated clothing. Wash protective clothing and 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 captan must be destroyed according to provincial regulations.
  7. Workers not involved in the handling of captan or the treating of seed with captan should be prevented from access to the work area where the seed treating process is occurring.
  8. Do not contaminate feed or foodstuffs.
  9. Treated seed bags must be labelled or tagged with the following instructions for workers planting treated seed. If seed is not bagged, then the following information must be provided in writing to the farmer through another means, such as a pamphlet: "For all activities involving handling of treated seeds (including planting), wear a long sleeved-shirt, long pants, chemical-resistant gloves, goggles and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit-tested. Closed cabs must be used for planting treated seeds. Respirators and chemical-resistant gloves are not required to be worn within the closed cab as long as the cab is equipped with equivalent respiratory protection (dust/mist filtering and/or vapour/gas purification system), but need to be available for exiting the cab during calibration, repair or cleaning of equipment."
  10. If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or [www.cropscience.bayer.ca](http://www.cropscience.bayer.ca)

## **STORAGE OF TREATED SEED**

Carry-over of treated seed to the following planting season is not recommended. Left-over treated seed should not be stored, but should be disposed of according to provincial regulations.

## **LABELLING OF TREATED SEED**

All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows:

- "This seed has been treated with Captan 400 Seed Protectant – contains captan: do not use for food, feed or oil processing.
- For all activities involving handling of treated seeds (including planting), wear a long sleeved-shirt, long pants, chemical-resistant gloves, goggles and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit-tested. Closed cabs must be used for planting treated seeds. Respirators and chemical-resistant gloves are not required to be worn within the closed cab as long as the cab is equipped with equivalent respiratory protection (dust/mist filtering and/or vapour/gas purification system), but need to be available for exiting the cab during calibration, repair or cleaning of equipment.
- **DO NOT** plant treated seed by hand.

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

### **ENVIRONMENTAL HAZARDS**

TOXIC to aquatic organisms. Treated seed is toxic to small wild mammals. 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 ground water. The use of captan fungicide in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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.

### **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. Avoid alcohol.

### **STORAGE AND DISPOSAL:**

**Storage:** store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed.

**Disposal:**

#### **FOR NON-RETURNABLE CONTAINERS:**

Do not reuse this container for any purpose. Before disposing of the container it should be triple rinsed.

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to 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.
- 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 requirements.

**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 use this container for any other purpose.

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.

**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.