



# Indar™ Fungicide

GROUP	3	FUNGICIDE
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AGRICULTURAL

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

ACTIVE INGREDIENT: Fenbuconazole 75.0%  
Wettable powder  
Warning, contains the allergen sulfites.

REGISTRATION NO. 27294 PEST CONTROL PRODUCTS ACT

Harmful if swallowed or absorbed through the skin.

DO NOT SELL THE WATER SOLUBLE PACKETS INDIVIDUALLY

NET CONTENTS: 454.4g (8 x 56.8g water soluble packets)

**Corteva Agriscience Canada Company**  
2450, 215 – 2<sup>nd</sup> Street SW  
Calgary, Alberta  
T2P 1M4  
1-800-667-3852

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## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN**

### **DO NOT APPLY BY AERIAL APPLICATION EQUIPMENT**

Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Do not enter or allow worker entry into treated areas within 12 hours of application.

### **PROTECTIVE CLOTHING AND EQUIPMENT**

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear chemical-resistant headgear during open cab airblast application. Chemical-resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Gloves are not required during application within a closed cab.

### **OPERATOR USE PRECAUTIONS**

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

### **FIRST AID**

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

**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 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.

### **TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

### **AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs or clothing. Not for use in products registered for residential area or properties.

### **ENVIRONMENTAL PRECAUTIONS**

Toxic to aquatic organisms. Fenbuconazole is persistent and may carryover. It is recommended that any products containing Fenbuconazole not be used in areas treated with this product during the previous season.

### **STORAGE**

Store in a cool, dry area above freezing. The water-soluble pouch may become brittle at storage temperatures below 0 deg C but the fungicide is not affected. Do not remove the water-soluble pouches from container except for immediate use. To prevent contamination store this product away from food or feed.

## **DISPOSAL**

1. When all the water-soluble bags are used, make the empty outer package unsuitable for further use.
2. Dispose of the outer package in accordance with provincial requirements.
3. 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.

## **GENERAL INFORMATION**

Indar Fungicide is a protectant fungicide for the control of specific diseases mentioned on this label. Indar Fungicide should be used in a regularly scheduled preventive spray program. A wetting agent or non-polymer containing spray adjuvant approved for use in registered pesticide products on fruit should be added to spray solutions according to manufacturers' use instructions to achieve optimum disease control.

## **GENERAL USE PRECAUTIONS**

- **DO NOT APPLY BY AERIAL APPLICATION EQUIPMENT**

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.

### **Tank 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 Corteva Agriscience Canada Company at 1-800-667-3852 or [www.corteva.ca](http://www.corteva.ca) for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Corteva Agriscience Canada Company.

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.

## **DIRECTIONS FOR USE**

READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC FUNGICIDE CONTROL OR CROP DAMAGE.

### **Use Determination**

Carefully read, understand and follow label use rate and restrictions. For proper application, determine the number of hectares to be treated, the suggested label use rate and the water volume to be applied per hectare. Prepare only the amount of spray solution required to treat the measured area. Careful calibration of spray equipment is recommended prior to use.

Apply only when the potential for drift to areas of human habitation or areas of 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.

### **Mixing**

Always place Indar Fungicide into solution prior to adding co-applied agricultural chemicals registered for use on specific crop or crops being treated. Add the required number of unopened pouches as determined by the dosage recommendations into the spray tank with agitation. Depending on the water temperature and the degree of agitation, the pouches should dissolve completely within approximately ten

minutes from the time they are added to the water.

NOTE: Reduced product efficacy may occur if water containing suspended soil particles is used, such as water from ponds, streams or unlined ditches.

### **Handling**

The enclosed pouches of Indar Fungicide are water-soluble. Do not allow pouches to become wet prior to adding to the spray tank. Do not handle the pouches with wet hands or wet gloves. Always reseal overwrap bag to protect remaining unused pouches. Do not remove water-soluble pouches from overwrap except to add directly to the spray tank.

### **Application Directions**

Ground application- Thorough coverage sprays generally result in optimum disease control. To achieve good coverage use proper spray pressure, water volume per hectare, nozzles, nozzle spacing and tractor speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration.

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.

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Chemigation: **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. Applications **MUST** be conducted **WITHOUT** the use of end guns. Do not apply this product through any other type of irrigation system. Avoid application when wind speed causes non-uniform distribution and/or favors drift beyond the area intended for treatment.

Do not apply by chemigation if the area to be treated is within 100 meters of a residential area or park.

### **Chemigation**

**Do not apply this product through any type of irrigation system unless otherwise specified on the label.**

### **Compatibility**

Indar Fungicide is compatible with most commonly used agriculture fungicides, insecticides, growth regulators, micronutrients and spray adjuvants. When preparing tank mixes, user should consult spray compatibility charts prior to use.

NOTE: Indar Fungicide is compatible with boron and spray oils; however, the water-soluble pouches must be completely dissolved before adding spray oils or products containing boron to spray-mixtures.

### **STONE FRUITS**

Indar Fungicide is a protectant fungicide. Best disease control is achieved when used in a regularly scheduled preventative spray program. Use 140 g of Indar Fungicide per hectare (1 pouch per acre or per 0.4 hectares) in a minimum of 500 L of water or in sufficient water volume to ensure thorough coverage. Under high disease pressure and/or favourable weather conditions, apply at the shortest spray interval. Indar Fungicide may be applied up to the day of harvest. Rotate registered fungicides to delay the development of resistance. A wetting agent or other non-polymer containing spray adjuvant approved for use with registered pesticides products on fruit crops should be added to spray solutions according to manufacturers' use instructions to achieve optimum disease control.

<b>Crop</b>	<b>Disease</b>	<b>Use Recommendations</b>	<b>Restrictions</b>
Apricots	Blossom Blight  Fruit Brown Rot	Begin applications at early red bud stage before infection occurs. If conditions are favorable for disease development, apply again at full bloom and at petal-fall.  Begin applications 3 weeks before harvest using a 7 to 10 day spray interval.	For all crops, do not use more than 7 applications per season.  For all crops, do not graze livestock in treated areas or feed cover crops grown in treated areas to livestock.
Cherry, Sweet Cherry, Tart	Blossom Blight Fruit Brown Rot	Refer to apricots.	
Cherry, Tart	Black Knot	Begin at petal fall and continue applications at 7 day spray intervals until mid to late June. Continual coverage of young growing shoot tissue is essential for disease control.	
Nectarines	Blossom Blight Fruit Brown Rot	Refer to apricots.	
Peaches	Blossom Blight Fruit Brown Rot	Refer to apricots.	
Plum Plum, Chickasaw Plum, Damson Plum, Japanese Prune, Fresh	Blossom Blight Fruit Brown Rot  Black Knot	Refer to apricots.  Begin at white popcorn stage and continue applications at 7 day spray intervals for a 5-6 week period. Continual coverage of young growing shoot tissue is essential for disease control.	

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Corteva Agriscience Canada Company under the User Requested Minor Use Label Expansion program. For these uses, Corteva Agriscience Canada Company 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.

#### **DIRECTIONS FOR USE**

##### **Highbush Blueberry**

For the control of Mummy Berry on highbush blueberries, apply Indar at the rate of 140 grams per hectare (1 pouch per acre or per 0.4 hectares). Apply in sufficient water volume to ensure thorough coverage. Do not use any spray adjuvants.

Apply Indar at early green tip followed by a second application 10 to 14 days later. A third application may be made at early bloom with a fourth application 10-14 days later.

Do not use more than four applications per year. Do not apply within 30 days of harvest.

## Cranberry

For the control of fruit rots including: early rot, end rot, bitter rot, cotton ball, ripe rot, viscid rot, yellow rot, black rot and storage rots (*Phyllosticta vacciniae*, *Fusicoccum putrefaciens* [*Godronia* sp.], *Colletotrichum acutatum*, *C. gloeosporioides*, *Monilinia oxycocci*, *Coleophoma empetri*, *Phomopsis vaccini*, *Botrytis* sp., *Allantophomopsis* spp.) on cranberry, apply Indar at the rate of 140 grams of product per hectare (1 pouch per acre or per 0.4 hectares) in a minimum of 500 L of water or in sufficient water volume to ensure thorough coverage.

Begin applications prior to bloom at the onset of disease. Continue on a 10-14 day spray schedule depending on local conditions.

Do not use more than 7 applications per season. Do not apply within 30 days of harvest. Apply using ground methods or chemigation.

Indar Fungicide may be applied to cranberry by chemigation. For application by chemigation, read the section below.

### Directions for Chemigation

**DO NOT apply Indar Fungicide by chemigation to other crops listed on this label.** Indar Fungicide may be applied through a solid set overhead sprinkler irrigation system that will apply water uniformly and within the confines of a closed perimeter of dykes. Do not apply this product through any other type of irrigation system. Sprinkler systems that deliver a low coefficient of uniformity such as certain water drive units are not recommended. Non-uniform distribution of treated water may reduce effectiveness or result in illegal pesticide residues on the crop.

Proper calibration of the chemigation system is essential to deliver the desired rate per hectare in a uniform manner and to minimize wash-off time. If you have questions about calibration, contact the equipment manufacturer or other expert.

### Equipment Requirements

- The system must contain an air gap, or approved backflow prevention device, or approved functional check valve, vacuum relief valve (including inspection port), and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow unless the water is from a man-made self-contained source on private land.
- The pesticide injection pipeline must contain a functional, automatic quick-closing check valve or one-way valve to prevent the flow of fluid back toward the injection pump. A secondary containment system around the injection port area must be in place.
- The pesticide injection pipeline must also contain a functional, normally closed, valve located on the intake side of the injection system to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection when the water pressure drops or water flow stops. Alternatively, in the absence of such an automatic system, the injection procedure must be continuously monitored by an operator who is able to manually shut off pesticide injection under the same circumstances.
- Systems must use a metering device, such as a positive displacement injection pump (or flow meter on eductor) effectively designed and compatible with pesticides and capable of being fitted with a system interlock.
- The tank holding the fungicide mixture should be free of rust, fertilizer, sediment, and foreign material, and equipped with an in-line strainer situated between the tank and the injection point.
- To insure uniform mixing of the fungicide in the water line, inject the mixture in the center of the pipe diameter or just ahead of an elbow or tee in the irrigation line so the turbulence created at those points will assist in mixing. The injection point must be located after all back-flow prevention devices on the water line unless the water is from a man-made self-contained source on private land.

### Precautions

- **DO NOT** connect an irrigation system used for pesticide application to a public water system unless the required safety devices for public water systems are in place. Specific local regulations may apply and must be followed.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall operate the system and shall shut the system down to make necessary adjustments should the need arise.
- **DO NOT** apply when wind speed causes non-uniform distribution.
- **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 prescribed American Society of Agricultural Engineers (ASAE S572.1) medium classification. Applications must be conducted **WITHOUT** the use of end guns.
- **DO NOT** allow spray pattern to exceed the enclosed bed area.

**Refer to the main Indar label for additional details and instructions.**

### RESISTANCE MANAGEMENT

For resistance management, please note that Indar Fungicide contains a Group 3 fungicide. Any fungal populations may contain individuals naturally resistant to Indar Fungicide and other Group 3 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same orchards. Other resistance mechanisms that are not linked to 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 Indar Fungicide or other Group 3 fungicides with different groups that control the same pathogens.
- Avoid application of consecutive sprays of Indar Fungicide or other fungicides in the same group in a season.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and cover crop 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 site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact Corteva Agriscience Canada Company at 1-800-667-3852 or at [www.corteva.ca](http://www.corteva.ca).

**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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Label Code: CN-27294-012-E

Replaces: CN-27294-011-E

Specimen label notes;

Add minor use for the control of fruit and storage rots on cranberry.

Add chemigation