



GROUP	11	27	FUNGICIDE
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## Tanos™ Fungicide

### DRY FLOWABLE

FOR SALE FOR USE ON POTATOES, FIELD TOMATOES AND CANEBERRIES ONLY

COMMERCIAL AGRICULTURAL

REGISTRATION NO. 27435 PEST CONTROL PRODUCTS ACT

**ACTIVE INGREDIENTS:** Famoxadone 25%  
Cymoxanil 25%

Warning, contains the allergen sulfites.

Do not handle more than 35 kg a.i. per day for groundboom application.  
Do not handle more than 52.5 kg a.i. per day for aerial application.



WARNING – POISON  
EYE IRRITANT

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**NET CONTENTS:** 2.5-5 kg

**Corteva Agriscience Canada Company**  
Suite 240, 115 Quarry Park Rd. SE  
Calgary, Alberta  
T2C 5G9  
1-800-667-3852

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## PRECAUTIONS

- **KEEP OUT OF REACH OF CHILDREN**

- Harmful or fatal if swallowed.
- Avoid contact with food, drink and livestock feed material.
- **May irritate eyes. Avoid contact with eyes.**
- Avoid contact with skin, eyes or clothing.
- Wash thoroughly with soap and water after handling.
- Remove contaminated clothing and wash clothing before reuse.
- Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

### For groundboom application

Wear chemical resistant coveralls over long-sleeved shirt and long pants, goggles or face shield and chemical resistant gloves during mixing, loading, application, cleanup and repair. Wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides during all mixing and loading activities.

### For aerial application

Wear chemical resistant coveralls over long-sleeved shirt and long pants, goggles or face shield and chemical resistant gloves during mixing, loading, cleanup and repair. Wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides during all mixing and loading activities.

## 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:** Treat Symptomatically.

## ENVIRONMENTAL PRECAUTIONS

- TOXIC to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.
- 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.

## DIRECTIONS FOR USE

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.

## SPRAY BUFFER ZONES

Use of the following spray methods or equipment DO NOT require a spray buffer zone: hand-held or backpack sprayer and spot treatment, inter-row hooded sprayer, low-clearance hooded or shielded sprayers that ensure spray drift does not come in contact with orchard crop fruit or foliage, soil drench and soil incorporation.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop		Spray Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths		Estuarine/Marine Habitat of Depths	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Potatoes, caneberries		5	1	2	1
	Field tomatoes		5	1	1	1
Aerial	Potatoes	Fixed wing	450	10	25	10
		Rotary wing	225	10	20	10
	Field Tomatoes	Fixed wing	150	10	15	10
		Rotary wing	150	5	15	5

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

### 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.

### Aerial application

**DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

## GENERAL INFORMATION

Tanos™ Fungicide is a protectant and locally systemic fungicide recommended for use as a spray, for the control of early and late blight on potatoes and field tomatoes.

Apply as a spray with ground or air assisted equipment, except as otherwise directed, using sufficient water to obtain thorough coverage of plants.

Do not handle more than 35 kg a.i. per day for groundboom application.  
Do not handle more than 52.5 kg a.i. per day for aerial application.

## **DO NOT USE ON GREENHOUSE TOMATOES.**

Not for use in home plantings nor once any commercial crop is turned into U-pick, Pick-Your-Own or similar operation.

### **CROP SAFETY AND VARIETAL SENSITIVITY**

Tanos Fungicide must not be applied to any crop suffering from stress as a result of drought, water logging, low temperatures, insect attacks, nutrient or lime deficiency or other factors reducing crop growth.

**DO NOT** enter or allow worker entry into treated areas to perform post-application activities during the intervals specified in the following table:

<b>Crop</b>	<b>Post application activity</b>	<b>Restricted-entry interval</b>
Potatoes	Hand set/hand line irrigation related activities involving foliar contact	18 days
	Roguing	6 days
	All other activities	1 day
Field Tomatoes	Hand set/hand line irrigation related activities involving foliar contact	8 days
	All other activities	12 hours
Caneberries	Hand set/hand line irrigation related activities involving foliar contact	11 days
	All other activities	9 days

### **INTEGRATED PEST MANAGEMENT**

Corteva Agriscience Canada Company recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an integrated Pest Management (IPM) program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when blight forecasting models reach locally determined action levels. Consult your provincial extension service, professional consultants or other qualified authorities to determine the appropriate management, cultural practice and treatment threshold levels for the specific crop, geography and diseases.

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, Tanos Fungicide is a group 11 and 27 (famoxadone and cymoxanil) fungicide. Any fungal population may contain individuals naturally resistant to Tanos Fungicide and other group 11 and/or 27 fungicides. 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:

- Alternate with fungicides having a different mode of action other than group 11 and 27 after each application of Tanos Fungicide.
- A maximum of three applications per year
- Use tank mixtures with fungicide/bactericides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an IPM 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/bactericide applications.

- Monitor treated fungal/bacterial populations for resistance development. Notify Corteva Agriscience Canada Company if reduced sensitivity of the pathogen to Tanos 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/bactericide) with a different site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and IPM recommendations for specific site and pest problems in the area.
- For further information or to report suspected resistance, contact your local Corteva Agriscience Canada Company representative or the Corteva Agriscience Canada Company hotline at 1-800-667-3852 for further information

## **APPLICATION INFORMATION**

### **PESTICIDE HANDLING**

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment.
- Ensure accurate measurement of pesticides by all operation employees.
- Mix only enough product for the job at hand.
- Avoid overfilling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field/grove or mixing/loading station.
- Dilute and agitate excess solution and apply at labelled rates/uses.
- Do not store pesticides near well sites.
- When triple rinsing the pesticide container, ensure the rinsate is added to the spray mix.

### **MIXING INSTRUCTIONS**

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of Tanos Fungicide.
3. Continue agitation until the Tanos Fungicide is fully dispersed, at least 5 minutes.
4. Once the Tanos Fungicide is fully dispersed, maintain agitation and continue filling tank with water. Tanos Fungicide should be thoroughly mixed with water before adding any other material.
5. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly reagitrate before using.
6. Apply Tanos Fungicide spray mixture within 12 hours of mixing to avoid product degradation.

### **Tank Mixtures**

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 Corteva Agriscience Canada Company at 1-800-667-3852 or [www.corteva.ca](http://www.corteva.ca) for information before applying any tank mix that is not specifically recommended on this label.

### **CROP ROTATION RESTRICTIONS**

Crops that are on the Tanos Fungicide label may be planted back at any time; cereal grains may be planted back following a minimum plantback interval of 30 days; and all other crops may be planted back following a minimum plantback interval of one year.

## COMPATIBILITY

Since formulations may be changed and new ones introduced, it is recommended that users premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.). Avoid mixtures of several materials and very concentrated spray mixtures.

Tank mix solutions containing boron may affect solubility of the product. When using boron containing solutions in a tank mix, follow these procedures:

- Add the correct amount to Tanos Fungicide first
- Introduce boron containing solutions last

## APPLICATION TIMINGS

- Make the first application of Tanos Fungicide following one to two applications of a preventative broad-spectrum fungicide such as chlorothalonil or mancozeb.
- Make the second application no less than 12 days after the first; a third application may be made no less than 24 days after the second.
- Apply Tanos Fungicide in a preventative program.
- When using Tanos Fungicide in a fungicide program, a recommendation is to alternate with other fungicides to manage resistance.
- Utilize sufficient water to obtain thorough coverage.
- Ground:
  - Conventional - no less than 250 - 300 l/ha
  - Air assisted - no less than 110 l/ha

## RAINFASTNESS

Tanos Fungicide rapidly penetrates into plant tissues and is rainfast within 12 hours after application.

## USE RATES AND APPLICATION INSTRUCTIONS

Crop	Disease	Rate (g/ha)	Spray Interval	Maximum No. Applications per year	PHI (days)
potato	<b>early blight</b> ( <i>Alternaria solani</i> )	560 - 840	A minimum <b>12-day application interval</b> must pass between the 1st and 2nd application of Tanos Fungicide. A minimum <b>24-day application interval</b> must pass between the 2nd and 3rd application of Tanos Fungicides other than Tanos may be used as necessary to protect the crop during these intervals.	3	14
field tomato	<b>late blight</b> ( <i>Phytophthora infestans</i> )	560			3

PHI = preharvest interval

Overspray or drift to sensitive habitats must be avoided. Do not contaminate these habitats when cleaning and rinsing spray equipment or containers.

A maximum of 3 applications per year is recommended for resistance management. Alternate with fungicides having a different mode of action other than group 11 and 27 after each application of Tanos Fungicide.

## POTATO

**Apply by air with a minimum water volume of 50 L/ha**

Initial applications should start when local conditions indicate that Late Blight is imminent: A minimum **12-day application interval** must pass between the 1st and 2nd application of Tanos Fungicide. A minimum **24-day application interval** must pass between the 2nd and 3rd application of Tanos Fungicides other than Tanos may be used as necessary to protect the crop during these intervals.

Apply no more than 3 applications per crop. Do not apply within 14 days of harvest.

**Refer to other sections of this label for additional application instructions and/or use precautions.**

#### **AERIAL APPLICATION LABEL INSTRUCTIONS**

**DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotor span.

Apply only by fixed-wing or rotary aircraft equipment, which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

#### **Use Precautions for Aerial Application**

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the **National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.**

#### **Operator Precautions for Aerial Application**

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, chemical-resistant coveralls and goggles or face shield during mixing/loading, cleanup and repair.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

#### **Product Specific Precautions for Aerial Application**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-667-3852 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Apply the recommended rate in a minimum spray volume of 50 L per hectare.

**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 The Corteva Agriscience Canada Company under the User Requested Minor Use Label Expansion program. For these uses, The 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.

**FOR USE ON CANEBERRIES (including blackberry; raspberry, red and black; wild raspberry; loganberry; cultivars and hybrids of these.):**

For control of Caneberry Spur blight (*Dydimella applanata*), cane botrytis (*Botrytis cinerea*), Caneberry anthracnose (*Elsinoe veneta*), and preharvest fruit rot (*Botrytis cinerea*), apply Tanos Fungicide at the rate of 840 grams/hectare. Use a sufficient water volume to ensure thorough coverage of the crop (250-800 L/ha)

Apply to foliage and fruit. A minimum 12-day application interval must pass between the 1st and 2nd application of Tanos Fungicide. A minimum 24-day application interval must pass between the 2nd and 3rd application of Tanos Fungicide.

Make no more than 3 applications per year.

Preharvest interval is 9 days.

Restricted entry interval is 9 days.

Use ground equipment only.

Refer to other sections of this label for additional application instructions and/or use precautions.

**SPRAY DRIFT MANAGEMENT**

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVOURABLE ENVIRONMENTAL CONDITIONS

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage.

Important factors to consider when trying to minimize the potential for spray drift are:

- a) droplet size (spray volume, pressure and nozzle type)
- b) boom height (minimized above crop)
- c) wind (spray between wind speeds of 5 to 15 kilometres per hour)
- d) temperature and humidity (large droplets reduce evaporation).



## **SPRAY TANK CLEANOUT**

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water by applying to a portion of the treated field.

## **STORAGE**

Store this product away from food or feed. Store product closed in original container only. Protect against humid air and water. Not for use or storage in or around the home. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Keep container tightly closed.

## **DISPOSAL**

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

The seller warrants that the purchase by the buyer and the use of this product, as such, will not infringe any Canadian patent.

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Label Code: CN-27435-005-E  
Replaces: CN-27435-004-E

Specimen Label Notes:  
Update tank-mix statement and address  
General formatting and French translation changes