

2023-6504

2023-12-18

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(Container Label)



GROUP	U15	FUNGICIDE
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## **ZORVEC™ EPICALTRIN™ FUNGICIDE**

SUSPENSION CONCENTRATE

FOR SOIL APPLICATION TO CUCURBIT VEGETABLES, TOMATOES, PEPPERS, EGGPLANTS, ASPARAGUS, CELTUCE, FLORENCE FENNEL (FRESH LEAVES AND STALK), KOHLRABI, AND PRICKLY PEAR AND CROP SUBGROUP 13-07A: CANEBERRIES

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

**ACTIVE INGREDIENT:** Oxathiapiprolin 200 g/L

Contains 0.00113% 5-chloro-2-methyl-4-isothiazolin-3-one as a preservative

Contains 0.00037% 2-methyl-4-isothiazolin-3-one as a preservative

REGISTRATION NO. 32102 PEST CONTROL PRODUCTS ACT

**NET CONTENTS:** 1L – 1,500 LITRES

**Corteva Agriscience Canada Company**

Suite 240, 115 Quarry Park Rd. SE

Calgary, AB

T2C 5G9

1-800-667-3852

™Trademark of Corteva Agriscience and its affiliated companies.

**PRECAUTIONS:**

- **KEEP OUT OF REACH OF CHILDREN.**
- During mixing/loading/application/clean-up and repair workers must wear long-sleeved shirt, long pants, socks & chemical-resistant footwear and chemical-resistant gloves.
- Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.
- Do not apply by air.
- Do not apply in greenhouses.
- 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.

**ENVIRONMENTAL PRECAUTIONS:**

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

**STORAGE:**

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed. To prevent contamination, store this product away from food or feed.

**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 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.

**FIRST AID:**

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.

**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.

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(Booklet)



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READ THE LABEL AND THIS BOOKLET BEFORE USING

**ACTIVE INGREDIENT:** Oxathiapiprolin 200 g/L

Contains 0.00113% 5-chloro-2-methyl-4-isothiazolin-3-one as a preservative

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REGISTRATION NO. 32102 PEST CONTROL PRODUCTS ACT

**Corteva Agriscience Canada Company**

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## GENERAL INFORMATION

Zorvec™ Epicaltrin™ Fungicide is a suspension concentrate containing oxathiapiprolin, and is recommended for use by soil application for the control or suppression of the diseases listed on this label.

Different application methods (foliar and soil) must not be combined when protecting a crop during the growing season.

Zorvec™ Epicaltrin™ Fungicide is active against selective Oomycete diseases listed on this label and has preventive and antispore activity. Zorvec™ Epicaltrin™ fungicide is locally systemic, translaminar, and moves systemically in the xylem. Zorvec™ Epicaltrin™ Fungicide must be applied in a regularly scheduled protective spray program in rotation with other fungicides. See directions below for specific crop/disease recommendations.

## DIRECTIONS FOR USE

### **Cultivar/Varietal Crop Safety**

Not all crops within a crop group, and not all varieties, cultivars or hybrids of crops, have been individually tested for crop safety. It is not possible to evaluate for crop safety all applications of Zorvec™ Epicaltrin™ Fungicide on all crops within a crop group, on all varieties, cultivars, or hybrids of those crops, or under all environmental conditions and growing circumstances. To test for crop safety, apply the product in accordance with the label instructions to a small area of the target crop to ensure that a phytotoxic response will not occur, especially where the application is a new use of the product by the applicator.

### **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 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

ZORVEC™ EPICALTRIN™ Fungicide will control the indicated diseases unless stated otherwise.

Not for foliar use.

**CUCURBIT VEGETABLES – Crop Group 9**

SITE	PEST	RATE ZORVEC™ EPICALTRIN™ FUNGICIDE/HA	SPECIFIC DIRECTIONS
<b>Cucurbit vegetables</b> Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); <u>Momordica</u> spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon	Phytophthora Blight – soil phase <i>Phytophthora            capsici</i>	0.35 to 1.4 L/ha	Apply at plant, in furrow, drip or in transplant water.  Use the higher rates for heavier soils, for longer application intervals, or for susceptible varieties.

**RESTRICTIONS AND PRECAUTIONS: Cucurbit Vegetables****Soil Applications**

- Do not follow soil applications of ZORVEC™ EPICALTRIN™ Fungicide with foliar applications of ZORVEC™ ENICADE™ Fungicide or other oxathiapiprolin-containing fungicides. Use either soil applications or foliar applications but not both to control the relevant disease.
- Do not make more than 4 applications of product per crop.
- Make no more than 2 sequential applications of ZORVEC™ EPICALTRIN™ FUNGICIDE before switching to a fungicide with a different mode of action.
- Do not use ZORVEC™ EPICALTRIN™ FUNGICIDE for more than 33% of the total soil fungicide applications.
- Maximum seasonal soil use rate is 2.8 L/ha.
- Minimum time (PHI) between application and harvest is 0 days.
- The minimum soil application interval is 7 days.

**TOMATO, PEPPER, EGGPLANT**

SITE	PEST	RATE ZORVEC™ EPICALTRIN™ FUNGICIDE/HA	SPECIFIC DIRECTIONS
Eggplant, Pepper (bell, non-bell), Tomato	Phytophthora Blight – soil phase ( <i>Phytophthora capsici</i> )	0.35 to 1.4 L/ha	Apply at plant, in furrow, drip or in transplant water.  Use the higher rates for heavier soils, for longer application intervals, or for susceptible varieties

**RESTRICTIONS AND PRECAUTIONS: Tomato, Pepper, Eggplant****Soil Applications**

- Do not follow soil applications of ZORVEC™ EPICALTRIN™ Fungicide with foliar applications of ZORVEC™ ENICADE™ Fungicide or other oxathiapiprolin-containing fungicides. Use either soil applications or foliar applications but not both to control the relevant disease.
- Do not make more than 4 applications of product per crop.
- Make no more than 2 sequential applications of ZORVEC™ EPICALTRIN™ FUNGICIDE before switching to a fungicide with a different mode of action.
- Do not use ZORVEC™ EPICALTRIN™ FUNGICIDE for more than 33% of the total soil fungicide applications.
- Maximum seasonal soil use rate is 2.8 L/ha.
- Minimum time (PHI) between application and harvest is 0 days.
- The minimum soil application interval is 7 days.

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

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than the Corteva Agriscience Canada Company and accepted for registration by Health Canada. The Corteva Agriscience Canada Company itself makes no representation or warranty with respect to product performance (efficacy) and crop tolerance (phytotoxicity) of this product when used on the crops listed below. Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold the Corteva Agriscience Canada Company harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

SITE	PEST	RATE ZORVEC™ EPICALTRIN™ Fungicide/ha	SPECIFIC DIRECTIONS
Asparagus	Spear, Crown or Root rot ( <i>Phytophthora</i> spp.)	0.7 to 1.4 L/ha	<b>New Plantings of transplants &amp; bulbs:</b> Apply a transplant drench prior to plant. See specific soil application directions in this label. For transplanting crowns, apply a crown soak. See specific crown soak application directions in this label. Make a crown soak solution in a large enough container to ensure that the crowns are fully submerged. Rinse excessive soil or sand from crowns prior to soak. Place crowns in fungicide solution and soak for a minimum of 10 minutes. Ensure the solution remains in suspension by using agitation. After soaking, remove from solution, drain and then plant the crowns.
Celtuce	Phytophthora rot ( <i>Phytophthora</i> spp.)		
Florence fennel (fresh leaves and stalk)	Brown rot and wilt ( <i>Phytophthora</i> spp.)		
Kohlrabi	Phytophthora rot ( <i>Phytophthora</i> spp.)		
Prickly Pear	Foot rot ( <i>Phytophthora</i> spp.)		
			<b>Established Plantings:</b> Directly apply to soil with a banded drench application at a minimum of 200L/ha. Follow by sprinkler or drip irrigation within 24 hours to adequately distribute the product to the root zone. If needed, re-apply using a 7-14 day interval. See specific soil application directions in this label.

**RESTRICTIONS AND PRECAUTIONS:**

- Make no more than 2 sequential applications of ZORVEC™ EPICALTRIN™ fungicide before switching to a fungicide with a different mode of action. Do not use ZORVEC™ EPICALTRIN™ fungicide for more than 33% of the total foliar fungicide applications.
- Do not make more than 2 applications (high rate) or 4 applications (low rate) per year.
- Maximum seasonal use rate is 2.8 L/ha.
- Minimum time (PHI) between application and harvest is 0 days.
- For any of the pests listed above, use the high rate under heavy pest pressure.



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

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than the Corteva Agriscience Canada Company and accepted for registration by Health Canada. The Corteva Agriscience Canada Company itself makes no representation or warranty with respect to product performance (efficacy) and crop tolerance (phytotoxicity) of this product when used on the crops listed below. Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold the Corteva Agriscience Canada Company harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

**Crop Subgroup 13-07A Caneberries**

SITE	PEST	RATE ZORVEC™ EPICALTRIN™ Fungicide/ha	SPECIFIC DIRECTIONS
Blackberry (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boysenberry, brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyenne blackberry, common blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, evergreen blackberry, Himalayaberry, hullberry, lavacaberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, mora, mures deronce, nectarberry, Northern dewberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, Southern dewberry, tayberry, youngberry, zarzamora), Loganberry, Raspberry (black, red and wild) and cultivars, varieties or hybrids of these),	Root rot ( <i>Phytophthora</i> sp.)	0.7 to 1.4 L/ha	Directly apply to soil with a banded drench application at a minimum of 200L/ha, continue on a 7-14 day interval. Follow by sprinkler or drip irrigation within 24 hours to adequately distribute the product to the root zone. See specific soil application directions in this label. Use higher rate and shorter interval when disease pressure is high. Use 1-2 applications at 7-14 days apart made in spring and 1-2 applications at 7-14 days apart made in fall.

**RESTRICTIONS AND PRECAUTIONS:**

- Make no more than 2 sequential applications of ZORVEC™ EPICALTRIN™ fungicide before switching to a fungicide with a different mode of action. Do not use ZORVEC™ EPICALTRIN™ fungicide for more than 33% of the total foliar fungicide applications.
- Do not make more than 2 applications (high rate) or 4 applications (low rate) per year.
- Maximum seasonal use rate is 2.8 L/ha.
- Minimum time (PHI) between application and harvest is 1 day.
- For any of the pests listed above, use the high rate under heavy pest pressure.

**CROP ROTATION**

For all legume crops except succulent peas, a plant-back interval of 180 days is required. All other crops may be planted immediately following the last application.

**APPLICATION INFORMATION****Mixing Instructions For Product Used Alone**

1. Fill clean spray tank 1/4 - 1/2 full of water.
2. While agitating, add the required amount of Zorvec™ Epicaltrin™ fungicide, continuing agitation until the product is completely dispersed.
3. Continue filling the tank, with agitation.

Mix thoroughly to fully disperse the fungicide; once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation.

**SPRAYER CLEANUP:**

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 in accordance with local regulations.

**SOIL APPLICATIONS**

For suppression or control of soil borne diseases, as recommended in this label, ZORVEC™ EPICALTRIN™ FUNGICIDE must be applied in a manner that ensures the product solution adequately saturates the target crop root/crown zone.

For soil application, apply ZORVEC™ EPICALTRIN™ FUNGICIDE using drip application, transplant water application (water wheel or continuous stream transplanters), surface band or directed application, or in-furrow application. If the application method does not move the product to the target root/crown disease zone, the application must be followed with irrigation or cultivation to correctly place the product for disease control.

**Transplant Water application**

Transplants should be adequately watered before transplanting. Ensure transplant water volume is sufficient to thoroughly wet the rootzone.

Use 125-250 mL of transplant water per transplant in sandy soil, and 175-250 mL of transplant water per transplant in silty soil.

- For Water Wheel transplanters, use the plant population to determine the rate per plant.

**Surface Band or Directed application**

Apply in a 10-30 cm (4-12 inch) band. Follow application with cultivation or irrigation 1.25 - 2.5 cm (0.5 - 1 inch) to move ZORVEC™ EPICALTRIN™ FUNGICIDE to the target disease zone.

**Transplant Tray Application**

Apply as a soil drench to the transplants in the transplant tray 24-48 hrs prior to transplanting. Immediately water the product off the foliage into the transplant tray soil, not watering past soil saturation. Wait 24 hours to transplant.

- For this application, the acre of transplants receives the full recommended hectare rate for transplant tray application, applied as a soil drench, and then washed into the transplant cubes. Transplant cubes should be on the dry side at the beginning of this treatment.

**CROWN SOAK**

Use 40 liters of solution, or the volume required to fully submerge 100 crowns. To determine the amount of product needed to treat 100 crowns, first determine the number of plants per hectare using typical plant spacing. Then use the following formula:  $100 \div \text{plant density per ha} \times 1400 \text{ ml} = \text{product needed to treat 100 crowns in 40 liters of solution}$ .

**CHEMIGATION**

The following types of irrigation equipment may be used for chemigation applications: drip (trickle) or strip tubing irrigation systems. Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label prescribed safety devices are in place. Do not apply this product through any other type of irrigation system.

See "Required System Safety Devices For All Chemigation Systems" at the end of the Chemigation section.

**APPLICATION INSTRUCTIONS****DRIP (TRICKLE)**

ZORVEC™ EPICALTRIN™ FUNGICIDE must be applied in a manner that ensures the product is in the root zone. ZORVEC™ EPICALTRIN™ FUNGICIDE must be in the root zone to provide effective control of target pests. ZORVEC™ EPICALTRIN™ FUNGICIDE is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of ZORVEC™ EPICALTRIN™ FUNGICIDE remain in the root zone where it is most effective.

- Do not begin applications until after crop emergence in direct seeded crops.
- Do not make applications if soil moisture is below the level required for active plant growth.
- This product must be applied uniformly in the root zone or poor performance may result. Drip tape or emitters must be located within or directly adjacent to the root zone. The drip system must be properly designed, free of leaks, and operated in manner that provides uniform application of water throughout the field.
- In most situations, this product should be applied during the first 1/3 of the irrigation cycle, starting just after the system has come up to pressure.
- The minimum injection period is the time that it takes water to move from the injection point to the furthest emitter in the irrigation zone (propagation time). If this time is not known, it can be calculated by measuring the time for a soluble dye to move from the injection point to the furthest emitter. A longer injection improves uniformity throughout the zone, but needs to allow for at least an equal period of water to flush the system and move the product through the soil.
- ZORVEC™ EPICALTRIN™ FUNGICIDE must not be applied at the same time that a drip irrigation line clean out product is being used as performance may be reduced.

**Directions for Chemigation:****Preparation**

A pesticide tank is recommended for the application of ZORVEC™ EPICALTRIN™ FUNGICIDE in drip chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard cleanout procedure. Dispose of any residues in accordance with local regulations. With the mix tank 1/4 to 1/2 full with water and the agitator running, measure the required amount of ZORVEC™ EPICALTRIN™ FUNGICIDE and add it to the tank. Then add additional water to bring your total pesticide mixture up to the desired volume for your application.

Note: Always add the ZORVEC™ EPICALTRIN™ FUNGICIDE to water, never put ZORVEC™ EPICALTRIN™ FUNGICIDE into a dry tank or other mixing equipment without first adding water.

Continue to agitate the mixture throughout the application process. Use mechanical or hydraulic agitation, do not use air agitation.

### **Injection Into Chemigation Systems**

Inject the proper amount of ZORVEC™ EPICALTRIN™ FUNGICIDE into the irrigation water flow using a positive displacement injection pump or a Venturi injector. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

### **Uniform Water Distribution**

The irrigation system used for application of ZORVEC™ EPICALTRIN™ FUNGICIDE must provide for uniform distribution of ZORVEC™ EPICALTRIN™ FUNGICIDE treated water. Non-uniform distribution can result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the drip chemigation system is operating properly to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

### **Monitoring of Chemigation Applications**

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the chemigation system when ZORVEC™ EPICALTRIN™ FUNGICIDE is in the irrigation water.

### **Operation**

Start the water pump and let the system achieve the desired pressure before starting the injector. Start the injector. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

### **Cleaning the System**

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard cleanout procedure. Dispose of any residues in accordance with local regulations. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

### **REQUIRED SYSTEM SAFETY DEVICES FOR ALL CHEMIGATION SYSTEMS**

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering device, such as a positive displacement pump or a Venturi injector, that provides uniform injection of the product, is effectively designed and constructed of materials compatible with the product, and is capable of being fitted with a system interlock.
7. Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

### **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 application equipment. Thoroughly rinse and flush all application equipment with clean water. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

### **PRECAUTIONS:**

- **KEEP OUT OF REACH OF CHILDREN.**
- During mixing/loading/application/clean-up and repair, workers must wear long-sleeved shirt, long pants, socks & chemical-resistant footwear and chemical-resistant gloves.
- Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.
- Do not apply by air
- Do not apply in greenhouses.
- 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.

### **ENVIRONMENTAL PRECAUTIONS:**

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

### **INTEGRATED PEST MANAGEMENT**

Corteva Agriscience Canada Company recommends the use of Integrated Pest Management (IPM) programs to control pests.

ZORVEC™ EPICALTRIN™ Fungicide may be used as part of an 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 disease 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**

ZORVEC™ EPICALTRIN™ Fungicide contains the active ingredient oxathiapiprolin which is listed as Group U15 by the Fungicide Resistance Action Committee (FRAC). Oxathiapiprolin inhibits the oxysterol-binding protein (OSBP). Any fungal population may contain individuals naturally resistant to ZORVEC™ EPICALTRIN™ Fungicide. 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 ZORVEC™ EPICALTRIN™ Fungicide or other fungicides containing Oxathiapiprolin with different mode of action 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. Do not tank mix ZORVEC™ EPICALTRIN™ Fungicide with any fungicide for which resistance to the target disease has developed.

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 Corteva Agriscience Canada Company if reduced sensitivity of the pathogen to ZORVEC™ EPICALTRIN™ 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.

Make no more than 2 sequential applications of ZORVEC™ EPICALTRIN™ Fungicide before rotating to a fungicide with a different mode of action.

Do not follow soil applications of ZORVEC™ EPICALTRIN™ Fungicide with foliar applications of ZORVEC™ ENICADE™ Fungicide or other oxathiapiprolin-containing fungicides. Different application methods (foliar and soil) must not be combined when protecting a crop during a growing season.

Do not use ZORVEC™ EPICALTRIN™ Fungicide for more than 33% of the total fungicide soil applications per season per crop.

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 Corteva Agriscience Canada Company representatives at 1-800-667-3852 or at [corteva.ca](http://corteva.ca).

## **STORAGE:**

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed. To prevent contamination, store this product away from food or feed.

## **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 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.

**FIRST AID:**

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.

**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.

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