

**WARNING**  
**Keep out of reach of children**



**ZORVEC<sup>®</sup>**

**Enicade<sup>®</sup>**

**FUNGICIDE**

**ACTIVE INGREDIENT:** Contains 100 g/L oxathiapiprolin in the form of an oil dispersion.

GROUP	49	FUNGICIDE
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For the control of Downy mildew in Bulb onions.

**READ THE LABEL BEFORE USE**

**NET CONTENTS: 5 L**

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**Corteva Agriscience New Zealand Limited**

Private Bag 2017

New Plymouth 4342

[www.corteva.co.nz](http://www.corteva.co.nz)

Telephone: 0800 803 939



## **WARNING**



Skin irritation Category 2  
Skin sensitisation Category 1  
Designed for biocidal action

## **QUALIFICATION REQUIREMENTS**

Persons mixing, loading, applying, or otherwise handling Zorvec® Enicade® must meet the qualification requirements set out in the EPA Hazardous Substances (Hazardous Property Controls) Notice 2017.

## **RECORD KEEPING**

Records of use, as described in the EPA Hazardous Substances (Hazardous Property Control) Notice 2017 and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept when any quantity is being used in a place where members of the public may be present, or where the substance may enter air or water and leave the place.

## **HEALTH HAZARDS**

Causes skin irritation. May cause an allergic skin reaction. Avoid breathing dust, fume, gas, mist, vapours and spray. Wash hands and face thoroughly after handling.

## **ENVIRONMENTAL HAZARDS**

Toxic to aquatic life with long lasting effects. Avoid release to the environment. DO NOT apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

## **HANDLING PRECAUTIONS**

### **PERSONAL PROTECTION**

When opening the container, preparing the product for use and applying the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow length chemical resistant gloves, and a face shield, or goggles with a disposable dust and mist face mask covering mouth and nose. Wash hands after use. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

### **EQUIPMENT**

Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the Disposal instructions below.

## **STORAGE**

Keep out of reach of children.

Store in original container, tightly closed and under lock and key, in a cool well ventilated area away from feed, seed and foodstuffs. Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS 8409).

## **SPILLAGE**

Wear appropriate protective clothing. Exclude all bystanders from vicinity of the spill. Contain liquid spills and prevent the substance entering waterways. Absorb liquid spills with inert material and place in waste containers labelled for disposal. Wash area with water and detergent, absorb with further inert material and dispose of waste material at a licensed local authority landfill. Report large spills to Corteva Agriscience Emergency Services at 0800 844 455.

## **DISPOSAL**

Triple rinse empty container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label, are free of all residues (liquid and dry) and have an intact legible label should be taken to an Agrecovery collection site (visit [www.agrecovery.co.nz](http://www.agrecovery.co.nz) or call 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical acceptable for disposal). Otherwise crush and bury in a suitably approved landfill. DO NOT burn empty containers.

Dispose of equipment cleaning water onto ground away from susceptible crops and plants.

DO NOT dispose of this product; spray mix or equipment cleaning water down drains or sewers.

## **FIRST AID**

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice. If medical advice is needed, have the product container or label at hand.

## **SAFETY DATA SHEET**

A Safety Data Sheet is available from Corteva Agriscience on request. Call Customer Service Toll Free on 0800 803 939 or visit [www.corteva.co.nz](http://www.corteva.co.nz)

## NOTICE

**Important:** You must read the warning and conditions given on this label. If they are not acceptable, or if you are in doubt as to the proper handling of this product (including its transport, storage, use, disposal, and requirements for approved handlers [if applicable]) then return the unopened product to the supplier at once.

**Warning:** This product is subject to controls and could be hazardous if handled incorrectly. The **user is responsible** for ensuring that the handling of this product is in accordance with the law (including the *Hazardous Substances and new Organisms Act 1996* and the *Agricultural Compounds and Veterinary Medicines Act 1997*) and with the directions provided. The registrant declines all liability (whether in contract, tort (including but not limited to negligence), or otherwise) to the maximum extent permitted by law in relation to the handling of this product in a manner which is contrary to the directions given or to any applicable Acts, Regulations or Guidelines.

**Further information** regarding the applicable Acts, Regulations and Guidelines for the proper handling of this product may be obtained by contacting EPA New Zealand ([www.epa.govt.nz](http://www.epa.govt.nz)) or the Ministry for Primary Industries (MPI) ([www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)).

This product is warranted to contain the specified active ingredients within accepted analytical tolerance when packed.

<p><b>Registered to:</b>  <b>Corteva Agriscience New Zealand Limited</b>          Private Bag 2017          New Plymouth 4342          Telephone 0800 803 939  <a href="http://www.corteva.co.nz">www.corteva.co.nz</a></p>	<p><b>EMERGENCY RESPONSE</b>          (All hours)          Ring from anywhere in New Zealand  <b>0800 844 455</b>          Or Globally  <b>+64-6-751-2407</b></p>	<p><b>IN A TRANSPORT EMERGENCY</b>  <b>DIAL 111</b>  <b>FOR POLICE OR FIRE</b></p>
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Registered pursuant to the ACVM Act 1997, No P9225  
 See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR101125  
 See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

Date of Manufacture:

Batch No.

Barcode

## GENERAL INSTRUCTIONS

Zorvec<sup>®</sup> Enicade<sup>®</sup> fungicide is a recommended for control of certain foliar plant diseases, and has preventative and locally systemic activity. Zorvec<sup>®</sup> Enicade<sup>®</sup> must be applied in a regularly scheduled protective spray program in rotation with other fungicides. See the Directions for Use table for specific crop/disease recommendations.

## CROPS CULTIVARS NOT TESTED

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® Enicade® on all varieties, cultivars, or hybrids, 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.

## MIXING INSTRUCTIONS

Fill spray tank to  $\frac{1}{4}$  to  $\frac{1}{2}$  full of water. Measure the amount of Zorvec® Enicade® required for the area to be sprayed. Add Zorvec® Enicade® directly to the spray tank with the agitation engaged. Mix thoroughly to disperse the fungicide. Once dispersed, the material must be kept in suspension at all times by continuous agitation. Use mechanical or hydraulic means. DO NOT use air agitation, premix or slurry. If spray solution is left standing, ensure thorough re-agitation of the spray mix until fully resuspended. DO NOT allow spray mix to sit overnight, as resuspension may be difficult.

## APPLICATION

Apply with well maintained, accurately calibrated spray equipment designed to apply high volumes of water to the point of runoff and matched to the crop being sprayed.

Use a sprayer fitted with high flow rate nozzles to apply the highest practical spray volume. Use sufficient water to obtain thorough coverage of plants, with a minimum 200 L/ha.

Nozzles with higher rated flows produce larger droplets. Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size, DOES NOT improve canopy penetration and may increase drift potential. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE. Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

## COMPATIBILITY

Zorvec® Enicade® is an oil-based formulation. Avoid spraying Zorvec® Enicade® in tank mixture with other agricultural products that have a history of causing crop injury when applied with oils unless specifically recommended by Corteva Agriscience.

Zorvec® Enicade® is compatible with many commonly used fungicides, liquid fertilisers, herbicides, insecticides, plant growth regulators, and biological control products. However, since the formulations of products are always changing, it is advisable to test the physical compatibility of desired tank mixes and check for adverse effects like settling out or flocculation. To determine the physical compatibility, add the recommended proportions of the tank mix products to water, mix thoroughly and allow to stand for 20 minutes. If the combination remains mixed, or can be re-mixed readily, it is considered physically compatible. Zorvec® Enicade® is compatible with Avaunt®<sup>1</sup>30WG, Benevia®<sup>1</sup>, Coragen®<sup>1</sup>, Fontelis®, imidacloprid, mancozeb, Movento®<sup>1</sup>, Octave®<sup>1</sup>, Phosphorous acid, Ranman®<sup>1</sup>, Rovral®<sup>1</sup> and Entrust™ SC Naturalyte™.

The crop safety of all potential tank-mixes, including additives and other pesticides, on all crops has not been tested. Before applying any tank-mix not specifically recommended on this label or other Corteva Agriscience supplemental labelling, the safety to the target crop must be confirmed. To test for crop safety, apply the combination to a small area of the target crop in accordance with the label instructions to ensure that a phytotoxic response will not occur.

The mixing sequence recommended is: water soluble bags, dry flowable or water dispersible granules, wettable powders, water based suspension concentrates, water soluble concentrates, oil dispersion concentrates (Zorvec® Enicade®), emulsifiable concentrates, adjuvants and surfactants, soluble fertilisers.

## **SURFACTANT/WETTING AGENT**

A non-ionic surfactant (NIS) such as Actiwett<sup>1</sup> is required when mixing Zorvec® Enicade® + Ranman®<sup>1</sup>. Refer to the surfactant label for directions of use.

## **RESTRICTED ENTRY INTERVAL (REI)**

DO NOT allow entry into treated areas for 24 hours. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow length chemical resistant gloves. Clothing must be washed after each day's use.

## **CLEANING OF SPRAY EQUIPMENT**

Prior to application, start with clean, well-maintained application equipment. Following an application of Zorvec® Enicade® all spraying equipment must be thoroughly cleaned both inside and out with a suitable spray tank cleaner. Follow the instructions on the tank cleaner label for the decontamination process. DO NOT use chlorine based tank cleaners.

Once decontamination has been completed cleaning water should be discharged onto a designated disposal area, or onto unused land away from desirable plants and water sources.

## **WITHHOLDING PERIODS**

**Bulb onions:** DO NOT apply later than 14 days before harvest.

### **GRAZING**

DO NOT graze or feed treated produce to livestock.

## **RESISTANCE MANAGEMENT**

<b>GROUP</b>	<b>49</b>	<b>FUNGICIDE</b>
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Zorvec® Enicade® is a member of the oxysterol binding protein homologue inhibition (OSBPi) group of fungicides. For fungicide resistance management Zorvec® Enicade® is a Group 49 fungicide. Oxysterol binding proteins (OSBP) are implicated in the movement of lipids between membranes, among other processes. Inhibiting OSBP may disrupt other processes in the fungal cell, such as signalling, maintaining cell membranes, and the formation of more complex lipids that are essential for the cell to survive.

Any fungal population may contain individuals naturally resistant to Zorvec® Enicade® and other Group 49 fungicides. A gradual or total loss of disease 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.

Since the occurrence of resistant individuals is difficult to detect prior to use Corteva Agriscience accepts no liability for any losses that may result from the failure of Zorvec® Enicade® to control resistant fungi.

### **FUNGICIDE RESISTANCE MANAGEMENT**

Zorvec® Enicade® may be subject to specific resistance management strategies. To help prevent the development of resistance to Zorvec® Enicade®, use the product in accordance with the current Fungicide Resistance Management strategy for your region.

For the latest information refer to the New Zealand Plant Protection Society (inc) website <http://resistance.nzpps.org/index.php?p=fungicides/principles> to delay fungicide resistance:

- Zorvec® Enicade® (Group 49) **must always be applied in a tank mixture with Ranman®<sup>1</sup>** (Group 21) to reduce the likelihood of resistant populations of fungi developing. For resistance management strategies specific to Ranman®<sup>1</sup>, please refer to the Ranman®<sup>1</sup> label.
- Exposure to Zorvec® Enicade® (or any other Group 49-containing product) should not exceed thirty-three percent (33%) of the total period of protection needed per crop.
- For crops when three (3) or more Downy mildew fungicide applications are made, use Zorvec® Enicade® (or any other Group 49-containing product) in no more than 33% of the total number of fungicide applications, with a maximum of two (2) sprays. Where less than three (3) Downy mildew fungicide applications are made, make no more than one (1) application of Zorvec® Enicade® (or any other Group 49-containing product).
- Zorvec® Enicade® applications are to be made preventatively and no more than two (2) times in sequence before applying a fungicide with a different mode of action.
- Where a fungicide with a different mode of action follows Zorvec® Enicade® (or any other Group 49-containing product) application, this fungicide preferably should have curative activity.
- There will be no more than two (2) applications of Zorvec® Enicade® to the same crop area per year and no more than six (6) applications of Zorvec® Enicade® (or any other Group 49 containing product) per year on the same property, targeting the same pathogen.

A disease management program that includes rotation and/or tank mixing with fungicides with a different mode of action is essential to reduce the risk of fungicide resistance development. For guidance on a particular crop and disease control situation, contact your farm chemical supplier, consultant, local Ministry for Primary industries, or local Corteva Agriscience representative.

### **DIRECTIONS FOR USE**

**It is an offence to use this product on animals.**

**DO NOT** apply if rainfall is expected within 30 minutes of application.

CROP	DISEASE	RATE	CRITICAL COMMENTS
Bulb onions	Downy mildew ( <i>Peronospora destructor</i> )	200 mL/ha + 200 mL/ha of Ranman <sup>®1</sup> + non-ionic surfactant	<p>Maintain a regular protectant spray programme. Apply when conditions favour disease development but BEFORE the disease is evident.</p> <p>Apply up to two consecutive sprays of Zorvec<sup>®</sup> Enicade<sup>®</sup> + Ranman<sup>®1</sup> tank mixture, a minimum of 10 days apart and then change to a non-Group 49 fungicide.</p> <p>Apply in 200 to 500 L of water per hectare. DO NOT apply more than 2 sprays of Zorvec<sup>®</sup> Enicade<sup>®</sup> + Ranman<sup>®1</sup> tank mixture to each crop as a precaution against development of fungicide resistance.</p>

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.**

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<sup>®1</sup> Registered trademark of other companies