



# DuPont™ Zorvec Enicade® FUNGICIDE

## Technical Information

### Active Constituent:

100 g/L OXATHIPIPROLIN

### Pack Sizes:

5 L

GROUP **U15** FUNGICIDE



### READ SAFETY DIRECTIONS BEFORE OPENING OR USING

For the control of certain fungal disease species in oilseed poppies and vegetable crops as per the Directions for Use

#### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

#### SAFETY DIRECTIONS

May irritate the skin. Avoid contact with the skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. When opening the container and preparing spray, wear chemical-resistant gloves. Wash hands after use. After each day's use wash gloves and contaminated clothing.

#### SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet available from [www.cropprotection.dupont.com.au](http://www.cropprotection.dupont.com.au)

#### GENERAL INSTRUCTIONS

DuPont™ Zorvec® Enicade® fungicide is recommended for control of certain foliar plant diseases, and has preventive, and locally systemic activity. Zorvec® Enicade® 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.

#### FUNGICIDE RESISTANCE WARNING

GROUP **U15** FUNGICIDE

For fungicide resistance management DuPont™ Zorvec® Enicade® fungicide is a Group U15 fungicide.

Some naturally occurring fungal biotypes resistant to Zorvec® Enicade® and other Group U15 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungi population if Zorvec® Enicade® and other Group U15 fungicides are used repeatedly. The effectiveness of Zorvec® Enicade® on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use DuPont accepts no liability for any losses that may result from the failure of Zorvec® Enicade® to control resistant fungi.

Zorvec® Enicade® may be subject to specific resistance management strategies. To help prevent the development of resistance to Zorvec® Enicade®, use

Zorvec® Enicade® fungicide in accordance with the current Fungicide Resistance Management (IRM) strategy for your region. **DO NOT** use Zorvec® Enicade® for more than 33% of the total foliar Downy mildew fungicide program. For a growing area, **DO NOT** apply more than 6 applications per 12 month period.

For further information contact your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local DuPont Representative.

#### MIXING

Fill spray tank to ¼ to ½ 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.

#### SURFACTANT/WETTING AGENT

Use of a surfactant/wetting agent is not required.

## APPLICATION

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 250 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 applying 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 DuPont.

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 *Antracol\**, *Avatar\**, *Benevia\**, *Coragen\**, *Fontelis\**, *imidacloprid*, *mancozeb*, *Movento\**, *Octave\**, *Phosphorous acid*, *Polyram\**, *Roval\**, *Success\* Neo*, *Sumagic\**, and *Ultimate\**.

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 DuPont 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 based suspension concentrates, emulsifiable concentrates, adjuvants and surfactants, soluble fertilisers.

### Spray Equipment 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 in accordance with local regulations.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life with long lasting effect. **DO NOT** contaminate wetlands or watercourses with this product or used containers.

### STORAGE AND DISPOSAL

KEEP OUT OF THE REACH OF CHILDREN.

Store in the closed, original container in a cool, well-ventilated area. **DO NOT** store for prolonged periods in direct sunlight.

Triple rinse containers before disposal. Add rinsings to spray tank. **DO NOT** dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. **DO NOT** burn empty containers or product.

### RE-ENTRY

No re-entry restriction applies to this product.

### NOTICE TO BUYER

To the extent permitted by the Competition and Consumer Act (2010) or any relevant legislation of any State or Territory (the "Legislation") all conditions and warranties and statutory or other rights of action, whether arising in contract or tort or whether due to the negligence of DuPont or Seller, which buyer or any other user may have against DuPont or Seller are hereby excluded provided however that any rights of the buyer pursuant to non excludable conditions or warranties of the Legislation are expressly preserved. DuPont hereby gives notice to buyer and other users that to the extent permitted by the Legislation it will not accept responsibility for any indirect or consequential loss of whatsoever nature arising from the storage, handling or use of this Product. Where permitted by the Legislation DuPont's liability shall in all circumstances be limited to the replacement of the product, or a refund of the purchase price paid therefor.

The Product must be used and applied strictly in accordance with the label instructions and other directions for use. It is impossible to eliminate all risks associated with the use of this product. Such risks may

arise from factors such as weather conditions, soil factors, off-target movement, unconventional technique, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont or the Seller. Buyer accepts these risks.

Avoid breathing mist or vapours. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

APVMA Approval: 68375/61667

**DIRECTIONS FOR USE**

**RESTRAINTS:**

**DO NOT** apply if rainfall is expected within 20 minutes of spray residues drying.

**DO NOT** use on hydroponic crops.

**DO NOT** apply by air.

**SPRAY DRIFT RESTRAINTS**

**DO NOT** apply with spray droplets smaller than a MEDIUM spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the BCPC Guideline.

**DO NOT** apply during surface temperature inversion conditions at the application site.

**DO NOT** apply when wind speed is less than 3 or more than 20 km per hour are measured at the application site.

Users of this product **MUST** make an accurate written record of the details of each spray application within 24 hours following application and **KEEP** this record for a minimum of 2 years.

The spray application details that must be recorded are:

1. date with start and finish times of application;
2. location address and paddock/s sprayed;
3. full name of this product;
4. amount of product used per hectare and number of hectares applied to;
5. crop/situation and weed/pest;
6. wind speed and direction during application;
7. air temperature and relative humidity during application;
8. nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application;
9. name and address of person applying this product.

(Additional record details may be required by the state or territory where this product is used.)

**For use in all States where appropriate for the crop and/or disease.**

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS	
<b>Bulb vegetables including:</b> Onions	Downy mildew ( <i>Peronospora destructor</i> )	350 mL/ha Plus a registered Downy mildew protectant fungicide at registered rates	10 days	Apply up to two consecutive sprays of Zorvec® Enicade®, 10 to 14 days apart. <b>DO NOT</b> apply more than 2 sprays of Zorvec® Enicade® to each crop as a precaution against development of disease resistance.	Maintain a regular protectant spray programme. Apply when conditions favour disease development but before the disease is evident. Apply in 250 to 500 L of water per hectare.
Chives Fennel bulb Florence fennel Garlic Leeks Shallots Spring onions				Apply up to two consecutive sprays of Zorvec® Enicade®, 10 days apart and then change to a fungicide from another chemical group. <b>DO NOT</b> apply more than 3 sprays of Zorvec® Enicade® to each crop as a precaution against development of disease resistance.	

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
<b>Brassica vegetables including:</b> Broccoli Brussels sprout Cabbage Cauliflower	Downy mildew ( <i>Hyaloperonospora parasitica</i> )	350 mL/ha Plus a registered Downy mildew protectant fungicide at registered rates	Nil	Maintain a regular protectant spray programme. Apply when conditions favour disease development but before the disease is evident. Apply up to two consecutive sprays of Zorvec® Enicade®, 7 to 10 days apart and then change to a fungicide from another chemical group. Use the shorter interval when conditions favouring infection are creating a high risk. Apply in 250 to 500 L of water per hectare.  <b>DO NOT</b> apply more than 3 sprays of Zorvec® Enicade® to each crop as a precaution against development of disease resistance.
<b>Cucurbit vegetables including (field and protected crops):</b> Bitter melon Chokos Cucumber, Gherkin Marrow Melons Pumpkin Rockmelon Squash Zucchini	Downy mildew ( <i>Pseudoperonospora cubensis</i> )	350 mL/ha Plus a registered Downy mildew protectant fungicide at registered rates	1 day	Maintain a regular protectant spray programme. Apply when conditions favour disease development but before the disease is evident. Apply up to two consecutive sprays of Zorvec® Enicade® 7 to 10 days apart and then change to a fungicide from another chemical group. Use the shorter interval when conditions favouring infection are creating a high risk. Apply in 250 to 500 L of water per hectare.  <b>DO NOT</b> apply more than 3 sprays of Zorvec® Enicade® to each crop as a precaution against development of disease resistance.

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
<b>Leafy vegetables including (includes Brassica leafy vegetables):</b> Anaranth leafy Arugula Buk choy Cardoon Chard Celtuce Chevril Chinese broccoli (Gai lum/Gai lan/Kai lan) Chinese cabbage (Pet sai / Wombok / Haksukai) Choy sum, Gai choy / Am soy Corn salad Cress Dandelion leaves Dock Endive Kai choy Kale Leafy mustard including Indian mustard and Mustard spinach (Komatsuma) Lettuce (Head and Leafy) Mibuna New Zealand spinach Orach Pak choy Purslane (Garden and Winter) Radicchio Rocket Spinach Swiss Tat soy	Downy mildew ( <i>Bremia lactucae</i> , <i>Peronospora farinose</i> )	350 mL/ha Plus a registered Downy mildew protectant fungicide at registered rates	3 days	Maintain a regular protectant spray programme. Apply when conditions favour disease development but before the disease is evident. Apply up to two consecutive sprays of Zorvec® Enicade®, 7 to 10 days apart and then change to a fungicide from another chemical group. Use the shorter interval when conditions favouring infection are creating a high risk. Apply in 250 to 500 L of water per hectare.  <b>DO NOT</b> apply more than 3 sprays of Zorvec® Enicade® to each crop as a precaution against development of disease resistance.
Poppies	Downy mildew ( <i>Peronospora cristata</i> )	350 mL/ha Plus a registered Downy mildew protectant fungicide at registered rates	6 weeks	Commence spraying early (i.e. before the main disease infection period) with registered non Group U15 fungicides. Apply Zorvec® Enicade® when conditions favour disease development during the late run-up to hook stage. Apply in 250 to 500 L water per hectare.  <b>DO NOT</b> apply later than hook stage. <b>DO NOT</b> apply more than 1 application of Zorvec® Enicade® to each crop, as a precaution against development of disease resistance.

**NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

#### WITHHOLDING PERIODS

##### HARVEST

**BRASSICA VEGETABLES: NOT REQUIRED WHEN USED AS DIRECTED**

**CUCURBIT VEGETABLES: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.**

**BRASSICA LEAFY VEGETABLES, LEAFY VEGETABLES: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.**

**CHIVES, FENNEL BULB, GARLIC, LEEKS, ONIONS, SHALLOTS, SPRING ONIONS: DO NOT HARVEST FOR 10 DAYS AFTER APPLICATION.**

**POPPIES: DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION.**

**GRAZING**

**DO NOT GRAZE OR CUT FOR STOCK FOOD.**

**EXPORT STATEMENT:** Growers should note that suitable Maximum Residue Levels (MRLs) or import tolerances may not be established in all markets for produce treated with Zorvec® Enicade®. If you are growing produce for export, please check with DuPont for the latest information on MRLs and export tolerances before using this product.

---

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable. It is intended for use by persons having technical skill at their own discretion and risk. DuPont makes no warranties, expressed or implied, and assumes no liability in connection with any of this information. Nothing herein is to be taken as license to operate under or a recommendation to infringe on any patents.

Copyright © 2016 E.I. du Pont de Nemours and Company. All rights reserved.

The DuPont Oval Logo, DuPont™, Avatar®, Benevia®, Coragen®, Fontelis® and Zorvec Enicade®, are trademarks or registered trademarks of DuPont or its affiliates

\* Non DuPont Trademark

Du Pont (Australia) Pty Ltd  
7 Eden Park Drive,  
Macquarie Park NSW 2113  
Phone: (02) 9923 6111  
[www.cropprotection.dupont.com.au](http://www.cropprotection.dupont.com.au)

Emergency Telephone  
Transport Emergency: (02) 9923 6275  
24 hr Emergency Medical Information: 1800 674 415