

# SAFETY DATA SHEET



## DuPont™ Zorvec™ Enicade™ fungicide

Version 2.0

Revision Date 02.08.2016

Document no. 130000124356

This SDS adheres to the standards and regulatory requirements of New Zealand and may not meet the regulatory requirements in other countries.

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product name** : DuPont™ Zorvec™ Enicade™ fungicide

**Other names** : B13124414  
Oxathiapiprolin 100 OD

**Recommended use of the chemical and restriction on use**

Recommended use : Fungicide  
Restrictions on use : Do not use product for anything outside of the above specified uses.

**Manufacturer, importer, supplier**

Company : DuPont (New Zealand) Limited  
Street address : Level 1, 14 Ormiston Road, East Tamaki, Auckland 2016  
New Zealand  
Telephone : 0800 658080  
Telefax : (09)-271-2961

**Emergency telephone number** : NZ Poisons Information Centre Ph: 0800 764766  
24-hour Medical Emergency: 0800 111174 Transport Emergency: 0800 387668

### 2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001  
Classified as a Dangerous Good according to NZS 5433

**HSNO Classification:**

6.3A : Skin irritation  
6.5B : Skin sensitisation  
9.1D : Aquatic toxicity (Acute or Chronic)

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

**Label content**

Pictogram :



Signal word : Warning

Hazardous warnings : Causes skin irritation.  
May cause an allergic skin reaction.  
Harmful to aquatic life.

Precautionary statements : Read label before use.  
Wash thoroughly after handling.  
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves.  
IF ON SKIN: Wash with plenty of soap and water.  
Specific treatment (see supplemental first aid instructions on this label).  
If skin irritation or rash occurs: Get medical advice/ attention.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
Take off contaminated clothing and wash before reuse.  
Dispose of contents/ container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Mixture

#### Components

Chemical name	CAS-No.	Concentration
Oxathiapiprolin	1003318-67-9	10.2 %
Other Ingredients		89.8 %

### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor if you feel unwell.

- Inhalation** : Move to fresh air. Consult a physician after significant exposure. Artificial respiration and/or oxygen may be necessary.
- Skin contact** : Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.
- Eye contact** : If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.
- Ingestion** : Call a physician or poison control centre immediately. Do not induce vomiting without medical advice. If victim is conscious: Rinse mouth with water. Drink 1 or 2 glasses of water.
- Most important symptoms/effects, acute and delayed** : No information available.
- Protection of first-aiders** : No information available.
- Notes to physician** : Treat symptomatically.

### 5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Water spray, Dry chemical, Foam, Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media** : High volume water jet, (contamination risk)

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<b>Specific hazards</b>	: No information available.
<b>Special protective equipment for firefighters</b>	: Wear full protective clothing and self-contained breathing apparatus.
<b>Specific extinguishing methods</b>	: No information available.
<b>Further information</b>	: Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.
<b>Hazchem Code</b>	: .3Z

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	: Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	: Prevent material from entering sewers, waterways, or low areas.
<b>Methods and materials for containment and cleaning up</b>	: Clean-up methods - small spillage Soak up with inert absorbent material. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean-up methods - large spillage Prevent further leakage or spillage. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.
<b>Additional advice</b>	: Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

### 7. HANDLING AND STORAGE

#### Handling

Technical measures/Precautions	: Before using, read the product label. Do not breathe spray mist. Wash hands after use.
Precautions for safe handling	: Keep away from heat and sources of ignition.

#### Storage

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Suitable storage conditions : Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep locked up. Do not store with feed, seeds or foodstuffs.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

No occupational exposure limit values are applicable.

**Engineering measures** : Ensure adequate ventilation.

**Biological occupational exposure limits** : No information available.

#### Personal protective equipment

Respiratory protection : None specified.

Hand protection : Material: Chemical-resistant gloves  
Glove length: elbow length

Eye protection : None specified.

Skin protection : When opening the container, preparing spray and using the prepared spray; Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing)., Elbow length chemical resistant gloves

**Hygiene measures** : Avoid breathing spray mist. After each day's use wash gloves and contaminated clothing Contaminated work clothing should not be allowed out of the workplace.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance (Physical state, form, colour, etc.)

Physical state : liquid  
Form : liquid  
Colour : off-white

**Odour** : oily characteristic

**Odour Threshold** : No information available.

**pH** : 6.5  
(1% solution in water)

#### Melting point/freezing point

No information available.

#### Initial boiling point and boiling range

No information available.

**Flash point** : >80 °C

**Evaporation rate** : No information available.

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**Flammability (solid, gas)** : No information available.

**Upper/lower flammability or explosive limits**

Upper explosion limit : No information available.

Lower explosion limit : No information available.

**Vapour pressure** : No information available.

**Vapour density** : No information available.

**Density**

Density : 0.99 g/cm<sup>3</sup>

**Solubility(ies)**

Water solubility : insoluble

**Partition coefficient: n-octanol/water** : No information available.

**Auto-ignition temperature**

Auto-ignition temperature : 335 °C  
Auto-ignition temperature

Ignition temperature : no data available

**Decomposition temperature** : No information available.

**Viscosity**

Viscosity, kinematic : No information available.

**Molecular weight** : No information available.

### 10. STABILITY AND REACTIVITY

**Reactivity** : No information available.

**Chemical stability** : The product is chemically stable under recommended conditions of storage, use and temperature.  
No decomposition if stored and applied as directed.

**Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use. Polymerization will not occur.

**Conditions to avoid** : Elevated temperature

**Materials to avoid** : No materials to be especially mentioned.

**Hazardous decomposition products** : No information available.

### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

Oral

DuPont™ Zorvec™ Enicade™ : LD50/Rat: > 5,000 mg/kg

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fungicide  
 Inhalation  
 DuPont™ Zorvec™ Enicade™ fungicide : LC50/4 h/Rat(dust/mist): > 5.0 mg/l  
 The substance or mixture has no acute inhalation toxicity

Dermal  
 DuPont™ Zorvec™ Enicade™ fungicide : LD50/Rat: > 5,000 mg/kg

**Skin corrosion/irritation**

DuPont™ Zorvec™ Enicade™ fungicide : Species: Rabbit  
 Result: Mild skin irritation

**Serious eye damage/eye irritation**

DuPont™ Zorvec™ Enicade™ fungicide : Species: Rabbit  
 Result: No eye irritation

**Respiratory or skin sensitisation**

DuPont™ Zorvec™ Enicade™ fungicide : Buehler Test  
 Species: Guinea pig  
 Result: May cause sensitisation by skin contact.

**Germ cell mutagenicity**

Oxathiapiprolin : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.

**Carcinogenicity**

Oxathiapiprolin : Animal testing did not show any carcinogenic effects.

**Reproductive toxicity**

Oxathiapiprolin : Reproductive toxicity: No toxicity to reproduction  
 Slight delays in maturation observed in rats.  
 Teratogenicity: Animal testing showed no developmental toxicity.

**Specific Target Organ Toxicity**

Specific target organ toxicity - single exposure

Oxathiapiprolin : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

Oxathiapiprolin : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration hazard**

No information available.

**Other**

Oxathiapiprolin : Repeated dose toxicity:  
 Oral - gavage/Rat  
 Method: OECD Test Guideline 407  
 No toxicologically significant effects were found., Information source:  
 Internal study report  
 Oral - feed/Dog  
 Method: No information available.

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No toxicologically significant effects were found., Information source:  
Internal study report  
Oral - feed/Mouse 28 d  
No toxicologically significant effects were found., Information source:  
Internal study report

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

Acute and prolonged toxicity to fish

DuPont™ Zorvec™ Enicade™ fungicide : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 10 mg/l

Toxicity to aquatic plants

DuPont™ Zorvec™ Enicade™ fungicide : EC50/72 h/Pseudokirchneriella subcapitata (green algae): > 3.5 mg/l

Acute toxicity to aquatic invertebrates

DuPont™ Zorvec™ Enicade™ fungicide : EC50/48 h/Daphnia magna (Water flea): > 9.62 mg/l

Chronic toxicity to fish

Oxathiapiprolin : Early Life-Stage/NOEC/35 d/Cyprinodon variegatus (sheepshead minnow): 0.34 mg/l  
Method: US EPA Test Guideline OPPTS 850.1400  
Information source: Internal study report

Chronic toxicity to aquatic Invertebrates

Oxathiapiprolin : flow-through test/NOEC/32 d/Americamysis bahia (mysid shrimp): 0.058 mg/l  
Information source: Internal study report

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

### Mobility in soil

No information available.

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods** : In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container.  
Ensure container is empty.

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**Contaminated packaging** : Do not re-use empty containers.  
Triple rinse containers. Add rinsings to spray tank. Recycle empty container. If not recycling crush and bury in a suitable landfill. Do not burn. Dispose of this product only by using according to this label.

### 14. TRANSPORT INFORMATION

#### NZS 5433

UN number : 3082  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Oxathiapiprolin)  
Transport hazard class : 9  
Packing group : III

#### IMDG

UN number : 3082  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Oxathiapiprolin)  
Transport hazard class : 9  
Packing group : III  
Marine pollutant : yes (Oxathiapiprolin)

#### IATA

UN number : 3082  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Oxathiapiprolin)  
Transport hazard class : 9  
Packing group : III

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special provision A197. If the product meets these special provisions, it may be shipped in New Zealand as a non-dangerous goods under provisions in NZS 5433 code which accepts IMDG and IATA classification.

### 15. REGULATORY INFORMATION

HSNO Number : HSR101125  
HSNO Controls : E1, E6  
P1, P3, P13  
D4, D5, D6, D7, D8  
EM1, EM6, EM7, EM8, EM11, EM12, EM13  
T1, T2, T4, T5, T7  
I1, I11, I16, I17, I18, I19, I21, I28, I29

ACVM Number: P9225



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**16. OTHER INFORMATION****References**

SDS Number: 130000124356

**Revision Date/Version**

Date of first preparation : 02.08.2016

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Version : 2.0

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Take notice of the directions of use on the label.

Significant change from previous version is denoted with a double bar.

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