

SAFETY DATA SHEET



DuPont™ Zorvec™ Enicade™ fungicide

Version 2.0

Revision Date 01.02.2016

Document no. 130000124356

This SDS adheres to the standards and regulatory requirements of Australia 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

Manufacturer, importer, supplier

Company : Du Pont (Australia) Pty Ltd
Street address : 7 Eden Park Drive
Macquarie Park NSW 2113
Australia

Telephone : (02) 9923 6111
Telefax : (02) 9923 6011

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

2. HAZARDS IDENTIFICATION

Product hazard classification

Skin sensitisation : Category 1
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

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

Label content

Pictogram :



Signal word : Warning

Hazardous warnings : May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

Precautionary statements : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.

SAFETY DATA SHEET



DuPont™ Zorvec™ Enicade™ fungicide

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Document no. 130000124356

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

- Inhalation** : Move to fresh air. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.
- Skin contact** : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Eye contact** : The material is not likely to be hazardous by eye contact, but flushing the eye if contact occurs is advisable. Consult a physician if necessary.
- Ingestion** : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- 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 (CO₂)
- Unsuitable extinguishing media** : High volume water jet, (contamination risk)
- Specific hazards** : No information available.
- Special protective equipment for firefighters** : Wear full protective clothing and self-contained breathing apparatus.

SAFETY DATA SHEET



DuPont™ Zorvec™ Enicade™ fungicide

Version 2.0

Revision Date 01.02.2016

Document no. 130000124356

- Specific extinguishing methods** : No information available.
- Further information** : 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.
- Hazchem Code** : .3Z

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.
- Environmental precautions** : Prevent material from entering sewers, waterways, or low areas.
- Methods and materials for containment and cleaning up** : Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container.
If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.
- Additional advice** : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

- Technical measures/Precautions : Wash hands after use. Remove and wash contaminated clothing before re-use.
- Precautions for safe handling : Keep away from heat and sources of ignition.

Storage

- Suitable storage conditions : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Observe label precautions. Keep out of the reach of children. DO NOT store for prolonged periods in direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No information available.

SAFETY DATA SHEET



DuPont™ Zorvec™ Enicade™ fungicide

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Engineering measures : Ensure adequate ventilation.

Biological occupational exposure limits : No information available.

Personal protective equipment

Respiratory protection : None specified.

Hand protection : Opening the container and preparing spray material:
Material: Chemical-resistant gloves

Eye protection : None specified.

Skin protection : Lightweight protective clothing and safety shoes are recommended., Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Hygiene measures : Avoid contact with skin, eyes and clothing. Remove clothing/PPE immediately if material gets inside. Wash all protective clothing after use.

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.

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

SAFETY DATA SHEET



DuPont™ Zorvec™ Enicade™ fungicide

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Density	: 0.99 g/cm ³
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: No information available.
Auto-ignition temperature	
Auto-ignition temperature	: 335 °C
Ignition temperature	: Auto-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	: Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	: 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™ fungicide : LD50/Rat: > 5,000 mg/kg

Inhalation

DuPont™ Zorvec™ Enicade™ fungicide : LC50/Rat(dust/mist): > 5.0 mg/l

Dermal

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

Skin corrosion/irritation

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


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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/Rat
No toxicologically significant effects were found.
Oral/Dog
No toxicologically significant effects were found.
Oral/Mouse
No toxicologically significant effects were found.

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Acute and prolonged toxicity to fish

DuPont™ Zorvec™ Enicade™ fungicide : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 0.69 mg/l

Toxicity to aquatic plants

DuPont™ Zorvec™ Enicade™ fungicide : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 0.142 mg/l
NOEC/72 h/Skeletonema costatum (Diatom): 0.141 mg/l

SAFETY DATA SHEET



DuPont™ Zorvec™ Enicade™ fungicide

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Information given is based on tests on the mixture itself., Information source: Internal study report

Acute toxicity to aquatic invertebrates

DuPont™ Zorvec™ Enicade™ fungicide : EC50/48 h/Daphnia magna (Water flea): 0.67 mg/l

Chronic toxicity to fish

Oxathiapiprolin : Early Life-Stage/NOEC/88 d/Oncorhynchus mykiss (rainbow trout): 0.46 mg/l
Early Life-Stage/NOEC/35 d/Cyprinodon variegatus (sheepshead minnow): 0.34 mg/l

Chronic toxicity to aquatic Invertebrates

Oxathiapiprolin : Semi-Static-Life-Cycle/NOEC/21 d/Daphnia magna (Water flea): 0.75 mg/l
flow-through test/NOEC/32 d/Americamysis bahia (mysid shrimp): 0.058 mg/l

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in soil

No information available.

Other adverse effects

Oxathiapiprolin : Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : Do not contaminate ponds, waterways or ditches with chemical or used container. Triple rinse (or equivalent) the container. 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Contaminated packaging : Do not re-use empty containers.
Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Hazchem Code : .3Z

IMDG

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Oxathiapiprolin)
Class : 9
Packing group : III

SAFETY DATA SHEET



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Marine pollutant : yes (Oxathiapiprolin)

IATA

UN number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Oxathiapiprolin)

Class : 9

Packing group : III

Matters needing attention for transportation : 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.

Not classified as dangerous goods according to the ADG Code.

15. REGULATORY INFORMATION

SUSMP: No poison schedule number allocated
APVMA Approval: 68375/61667

16. OTHER INFORMATION

References

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Date of first preparation : 01.02.2016

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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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.