

SAFETY DATA SHEET



Zorvec™ Enicade™ fungicide

Version 0.0

Document no. 130000124356

Revision Date 00.00.0000

Issue Date 10.12.2019

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 : 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, representative office

Company : Production Agriscience (Australia) Pty Ltd
Street address : Level 9, 67 Albert Avenue
CHATSWOOD NSW 2067
Australia

Customer Information Number: 1800-700-096
aucustomerservice@corteva.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: +61 2 9474 7350

Local Emergency Contact: 1800-370-754

For advice, contact a doctor (at once) or the Australian Poisons Information Centre: 131 126

Transport Emergency Only Dial 000

2. HAZARDS IDENTIFICATION

Product hazard classification

Flammable liquids : Category 4

Skin sensitisation : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : 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 : Combustible liquid.
May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

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Precautionary statements :

- Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective gloves/ eye protection/ face protection.
- 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.
- In case of fire: Water spray, Dry chemical, Foam, Carbon dioxide (CO₂).
- 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 : 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 : 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

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Suitable extinguishing media	: Water spray, Dry chemical, Foam, Carbon dioxide (CO ₂)
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.
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.

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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 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 : 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.

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.

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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	:	
Density	:	0.99 g/cm3
Solubility(ies)	:	
Water solubility	:	Insoluble
Partition coefficient: n-octanol/water	:	No information available.
Auto-ignition temperature		
Auto-ignition temperature	:	335 °C
Ignition temperature	:	No data available
Decomposition temperature	:	No information available.
Viscosity	:	
Viscosity, kinematic	:	No information available.
Molecular weight	:	No information available.
Oxidizing properties	:	The product is not oxidizing.

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.

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11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Oral

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

Inhalation

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

Dermal

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

Skin corrosion/irritationZorvec™ Enicade™ fungicide : Species: Rabbit
Result: Mild skin irritation**Serious eye damage/eye irritation**Zorvec™ Enicade™ fungicide : Species: Rabbit
Result: No eye irritation**Respiratory or skin sensitisation**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 toxicityOxathiapiprolin : 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

Zorvec™ Enicade™ fungicide : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

Aspiration hazard

Zorvec™ Enicade™ fungicide : The mixture does not have properties associated with aspiration hazard potential.

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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

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

Toxicity to aquatic plants

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

Acute toxicity to aquatic invertebrates

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

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**

Oxathiapiprolin : Result: Not readily biodegradable.

Bioaccumulation

No information available.

Mobility in soil

No information available.

Other adverse effects

No information available.

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 rinsing's 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.

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14. TRANSPORT INFORMATION

ADG

UN number : 3082
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Oxathiapiprolin)
Transport hazard class : 9
Packing group : III
Hazchem Code : .3Z

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

Standard for the Uniform Scheduling of Medicines and Poisons: No poison schedule number allocated
APVMA Approval: 68375

16. OTHER INFORMATION

References

SDS Number: 130000124356

Revision Date/Version

Date of first preparation : 01.02.2016
Revision Date : 10.12.2019
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™ Trademark of E.I. du Pont de Nemours and Company.
Take notice of the directions of use on the label.

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