

Safety Data Sheet (SDS)

According to UN GHS 9th Ed

Revision Date: 2022/06/20

Page 1 of 7

Version: 1.5

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: **Doepa 250 EC**

Relevant identification uses of the substance and uses advised against:

Identified uses: FUNGICIDE.

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Green Island Investments Pty Ltd

P.O Box 1822, Heidelberg 1438

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946

Poisons Information Helpline: 0861 555 777

Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Toxic To Reproduction 1B

H360D May damage the unborn child.

Aspiration Hazard 1

H304 May be fatal if swallowed and enters airways.

Acute Toxicity (Oral) 4

H302 Harmful if swallowed. Serious Eye

Damage/Irritation 2A

H319 Causes serious eye irritation.

Flammable Liquids 4

H227 Combustible liquid.

Signal Word Danger

Hazard Statements

H227 Combustible liquid. H302

Harmful if swallowed.

H319 Causes serious eye irritation.

H360D May damage the unborn child.

H304 May be fatal if swallowed and enters airways.

Safety Data Sheet (SDS)

According to UN GHS 9th Ed

Revision Date: 2022/06/20

Page 2 of 7

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from flames and hot surfaces. No smoking.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P330	Rinse mouth.
P308+P313	IF exposed or concerned: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use to extinguish: CO2, powder or water spray. P403+P235 Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

Special labelling of certain mixtures: None known.

Other hazards: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Hazardous Components:

CAS: 64742-94-5	Solvent naphtha (petroleum), heavy arom. Aspiration Hazard 1, H304; Flammable Liquids 4, H227	50%
CAS: 119446-68-3	Difenoconazole Acute Toxicity (Oral) 3, H301; Serious Eye Damage/Irritation 2A, H319	25%
CAS: 872-50-4	N-methyl-2-pyrrolidone Toxic To Reproduction 1B, H360D; Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319; STOT SE 3, H335; Flammable Liquids 4, H227	<10%

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

SECTION 4. FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Safety Data Sheet (SDS)

Page 3 of 7

According to UN GHS 9th Ed

Revision Date: 2022/06/20

Symptoms Caused by Exposure:

Inhalation: May cause mild irritation.

Skin Contact: May cause skin irritation, itchiness and reddening. Eye Contact: Causes eye irritation, stinging and reddening.

Ingestion: Harmful if swallowed. May be fatal if swallowed and enters airways. May cause irritation, reddening and burning sensation to mouth and throat.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Carbon dioxide, foam dry chemical and water fog.

SMALL FIRE: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

LARGE FIRE: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

During a fire, irritating and possibly toxic gasses may be generated by thermal decomposition or combustion. Closed container may explode if pressure builds up. Toxic or irritating gas may be generated during fire.

Advice for fire-fighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

For emergency responders: Use an approved/certified respirator or equivalent, isolate the spill area and limit the access to emergency responders only. Avoid any contact with spilled material, use adequate protective clothes and gloves.

Environmental precautions:

Cover drains. Prevent from entering soil, ditches, sewers, waterways and/or groundwater.

Methods for containment and cleaning up:

For small spills Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite or diatomaceous earth.

For large spills Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local regulations.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information:

None.

Safety Data Sheet (SDS)

According to UN GHS 9th Ed

Revision Date: 2022/06/20

Page 4 of 7

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Use adequate protective equipment to avoid direct contact of product. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Toxic if swallowed and fatal if inhaled. Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not inhale spray mist or vapours. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Exposure Standards:

CAS: 872-50-4 N-methyl-2-pyrrolidone

WES	STEL: 309 mg/m ³ , 75 ppm TWA: 103 mg/m ³ , 25 ppm Sk
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Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing is required to prevent skin contact with the product.

Respiratory protection: Respiratory protection is required; use an approved air-purifying respirator.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

Safety Data Sheet (SDS)

According to UN GHS 9th Ed

Revision Date: 2022/06/20

Page 5 of 7

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow to amber homogenous liquid.
Odour: Aromatic hydrocarbon odour.
Relative density: 0,992 ± 0,05
Solubility in water: Forms an emulsion in water.
Flash point: 60 °C
Flammability: Combustible.
pH: 5.2

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

The product is stable under normal conditions.

Chemical stability:

Stable under normal storage conditions for 2 years.

Possibility of hazardous reactions:

Slightly reactive to reactive with reducing agents, alkalis.

Conditions to avoid:

Reducing agents and alkalis.

Incompatible materials:

Reducing agents and alkalis.

Hazardous decomposition products:

No information available.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: *Technical: 1453 mg/kg in rats.*

Formulation calculated: > 2800 mg/kg

Acute dermal LD₅₀: *Technical: > 2010 mg/kg in rabbits.*

Formulation calculated: > 4000 mg/kg

Acute inhalation LC₅₀: *Technical: ≥ 3300 mg/l air (4 hours)*

Formulation calculated: Harmful.

Acute skin irritation: May cause moderate irritation.

Acute eye irritation: May cause moderate irritation.

Skin sensitization: Not likely to be a skin sensitizer.

Reproductive effects:

The results of the 2-generation reproductive and developmental toxicity studies do not demonstrate increased sensitivity of infants and children to difenoconazole.

Teratogenic effects:

Difenoconazole is not teratogenic.

Mutagenic effects:

Difenoconazole is not mutagenic.

Carcinogenic effects:

The EPA previously classified difenoconazole as a possible human carcinogen. This chemical would now be classified as a likely human carcinogen in accordance with the Agency's "Proposed Guidelines for Carcinogenic Risk Assessment"

Neurotoxic effects:

Neurotoxicity studies are not applicable because difenoconazole is not a cholinesterase inhibitor and there is no evidence in the available data base that difenoconazole possesses neurotoxic properties.

ADI: 0.01 mg/kg b.w.

Safety Data Sheet (SDS)

According to UN GHS 9th Ed

Revision Date: 2022/06/20

Page 6 of 7

SECTION 12. ECOLOGICAL INFORMATION

Degradation:

Difenoconazole is practically immobile in soil and is strongly adsorbed to soil particles (mean adsorption coefficient normalised to organic carbon, $K_{oc,ads}$ 3759 mL/g). It has a low potential to leach below top soil layer. Soil dissipation rate is slow and dependent on application rate. DT_{50} is 50 to 150 days.

DT_{50} from water is 2 days.

In plants two routes of metabolism are applicable. One is by a triazole route to triazolylalanine and triazolylacetic acid; the other is by hydroxylation of the phenyl ring, followed by conjugation.

ECOTOXICOLOGY:

Birds: Slightly to practically non-toxic to birds.

LD_{50} (9 to 11 days): Bobwhite quail: > 2150 mg/kg

Japanese quail: > 2000 mg/kg

LC_{50} : Bobwhite quail: 4760 ppm

Mallard ducks: > 5000 ppm

Fish: Very toxic to fish.

LC_{50} (96 hours): Bluegill sunfish: 1.2 mg/L

Rainbow trout: 0.81 mg/L

Sheepshead minnows: 0.82 mg/L

Daphnia: Very toxic to Daphnia.

48-hour LC_{50} : *Daphnia magna*: 0.77 mg/L

Algae: Very toxic to algae.

EC_{50} : *Scenedesmus subspicatus*: 0.032 – 1.2 mg/L

Other aquatic species: Very toxic.

LC_{50} (96 hours): Mysid shrimps: 0.15 mg/L

EC_{50} (96 hours): Eastern oysters: 0.45 mg/L

EC_{50} (14 days): Duckweed (*Lemna gibba*): 18.5 mg/L

Bees: Not toxic to bees. LD_{50} (oral): > 187 µg/bee

LD_{50} (contact): > 100 µg/bee

Earthworms: LC_{50} : > 610 mg/kg

Use under field conditions is not expected to result in adverse effects on soil micro-organisms or on soil- and foliar-dwelling non-target arthropods.

Product is considered a MARINE POLLUTANT.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Consider suitable waste recycling, re-use or recovery options. Dispose of in accordance with municipal, provincial and national regulations. Waste Classification and Management Regulations (GN 634 of 2013). Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

Safety Data Sheet (SDS)

According to UN GHS 9th Ed

Revision Date: 2022/06/20

Page 7 of 7

SECTION 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	3082	3082	3082
UN Proper shipping name:	ENVIROMENTALLY HAZARDOUS SUBSTANCE, liquid, N.O.S. (Difenconazole 250 g/lit)	ENVIROMENTALLY HAZARDOUS SUBSTANCE, liquid, N.O.S. (Difenconazole 250 g/lit)	ENVIROMENTALLY HAZARDOUS SUBSTANCE, liquid, N.O.S. (Difenconazole 250 g/lit)
Transport hazard class:	9	9	9
Packaging group:	III	III	III
Marine pollutant:	yes	yes	yes
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not required	Not required	Not required

Inland waterways: Not required.

Emergency response information: No information.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP].

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

All sections.

Relevant H statements (number and full text):

Aquatic chronic 1: Hazardous to the aquatic Environment (Chronic 1)

H302: Harmful if swallowed.

H318: Causes serious eye damage.

Training instructions: No special training required. Read label of product.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.