

SAFETY DATA SHEET



DuPont™ Fontelis® fungicide

Version 2.0

Revision Date 18.12.2015

Document no. 130000012055

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™ Fontelis® fungicide

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.
Collect spillage.
Dispose of contents/ container to an approved waste disposal plant.


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3. COMPOSITION/INFORMATION ON INGREDIENTS
Chemical nature : Mixture

Components

Chemical Name	CAS-No.	Concentration
Penthiopyrad	183675-82-3	20.4 %
White mineral oil (petroleum)	8042-47-5	40 - 45%
Other Ingredients		34.6 - 39.6%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

- 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** : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.
- Ingestion** : Obtain medical attention. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: Rinse mouth with 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, Carbon dioxide (CO₂), Foam
- Unsuitable extinguishing media** : High volume water jet, (contamination risk)
- Specific hazards** : Hazardous combustion products: Carbon oxides Nitrogen oxides (NO_x) sulphur oxides Fluorinated compounds
- Special protective equipment for firefighters** : Wear full protective clothing and self-contained breathing apparatus.

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- 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** : Clean-up methods - small spillage Soak up with inert absorbent material. Sweep up and shovel into suitable containers 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.
- 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. Wash contaminated clothing before re-use.
- Precautions for safe handling : Keep away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge.

Storage

- Suitable storage conditions : Keep out of the reach of children. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. DO NOT store for prolonged periods in direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Control parameters

Chemical Name	Occupational Exposure Limits	Regulation
White mineral oil (petroleum)		
TWA	5 mg/m ³	AU NOEL (12 2011)

Engineering measures : Ensure adequate ventilation, especially in confined areas.**Biological occupational exposure limits** : No information available.**Personal protective equipment**

Respiratory protection : None specified.

Hand protection : None specified.

Eye protection : None specified.

Skin protection : Wear cotton overalls buttoned to neck and wrist, and a washable hat.

Hygiene measures : Opening the container and preparing spray: Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). After each day's use wash gloves and contaminated clothing**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance (Physical state, form, colour, etc.)**Physical state : liquid
Form : liquid
Colour : off-white**Odour** : slight ester-like**Odour Threshold** : not determined**pH** : 6.66 (10 g/l)**Melting point/freezing point**

No information available.

Initial boiling point and boiling range

No information available.

Flash point : > 105 °C**Evaporation rate** : Not available for this mixture.**Flammability (solid, gas)** : No information available.**Upper/lower flammability or explosive limits**

Upper explosion limit : No information available.

Lower explosion limit : No information available.


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Vapour pressure : No information available.

Vapour density : No information available.

Density

Specific gravity
(Relative density) : 0.9789

Solubility(ies)

Water solubility : dispersible

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature

Auto-ignition temperature : ca.385 °C
Auto-ignition temperature
Ignition temperature : 385 °C

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 : Protect from frost. Heat Direct sunlight.

Materials to avoid : Strong oxidizing agents

Hazardous decomposition products : Carbon oxides, Nitrogen oxides (NOx), sulphur oxides, Fluorinated compounds

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral

DuPont™ Fontelis® fungicide : LD50/Rat: > 5,000 mg/kg

Inhalation

DuPont™ Fontelis® fungicide : LC50/4 h/Rat(dust/mist): > 3.5 mg/l
The substance or mixture has no acute inhalation toxicity

Dermal


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- DuPont™ Fontelis® fungicide : LD50/Rat: > 5,000 mg/kg
- Skin corrosion/irritation**
 DuPont™ Fontelis® fungicide : Species: Rabbit
 Result: No skin irritation
- Serious eye damage/eye irritation**
 DuPont™ Fontelis® fungicide : Species: Rabbit
 Result: No eye irritation
- Respiratory or skin sensitisation**
 DuPont™ Fontelis® fungicide : Species: Guinea pig
 Result: May cause sensitisation by skin contact.
- Germ cell mutagenicity**
 Penthiopyrad : Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Genetic damage in cultured mammalian cells was observed in one laboratory test but was not observed in others.
- Carcinogenicity**
 Penthiopyrad : Not classifiable as a human carcinogen.
 The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
 A slight increased incidence in tumors was observed in animal studies.
 Liver
 Thyroid
- Reproductive toxicity**
 Penthiopyrad : Reproductive toxicity: No toxicity to reproduction
 Teratogenicity: No toxicity to reproduction
 The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
 Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
- Specific Target Organ Toxicity**
 Specific target organ toxicity - single exposure
 Penthiopyrad : The substance or mixture is not classified as specific target organ toxicant, single exposure.
 Specific target organ toxicity - repeated exposure
 Penthiopyrad : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Aspiration hazard**
 Penthiopyrad : No aspiration toxicity classification
- Other**
 Penthiopyrad : Repeated dose toxicity:
 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., The following effects occurred at levels of exposure that


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significantly exceed those expected under labeled usage conditions.
 Oral/multiple species
 Reduced body weight gain, Liver effects, Thyroid effects, Spleen effects,
 Gallbladder effects, Liver enlargement, Immune system effects, altered
 blood chemistry, altered hematology, Organ weight changes, Decreased
 spleen weight, Increased liver weight

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Acute and prolonged toxicity to fish

DuPont™ Fontelis® fungicide : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 0.36 mg/l

Toxicity to aquatic plants

 DuPont™ Fontelis® fungicide : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 2.0 mg/l
 Method: OECD Test Guideline 201
 (Data on the product itself), Information source: Internal study report

Acute toxicity to aquatic invertebrates

DuPont™ Fontelis® fungicide : EC50/48 h/Daphnia magna (Water flea): 0.060 mg/l

Chronic toxicity to aquatic Invertebrates

DuPont™ Fontelis® fungicide : NOEC/21 d: 0.01061 mg/l

Persistence and degradability

DuPont™ Fontelis® fungicide : Not readily biodegradable. Estimation based on data obtained on active ingredient.

Bioaccumulation

No information available.

Mobility in soil

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. In accordance with local and national regulations. Refer to the product label for instructions.

Contaminated packaging : Triple or preferably pressure 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 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.

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14. TRANSPORT INFORMATION

ADG

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Penthiopyrad)
Class : 9
Packing group : III
Hazchem Code : .3Z

IMDG

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

IATA

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

Matters needing attention for transportation : Not dangerous goods under ADG code when being transported in IBCs or other receptacles < 500 kg (Special Provision AU01). 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.

15. REGULATORY INFORMATION

SUSMP: Schedule 5
APVMA Approval number: 65510

16. OTHER INFORMATION

References

SDS Number: 130000012055

Revision Date/Version

Date of first preparation : 18.12.2015
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Before use read DuPont's safety information. 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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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.