

## SAFETY DATA SHEET

**DuPont™ Fontelis® fungicide**

Version 1

Revision Date 13/08/2012

Ref. 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 information**

Product name : DuPont™ Fontelis® fungicide

Use of the Substance/Mixture : Fungicide

Company : Du Pont (Australia) Pty Ltd  
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****Hazardous classification:**

Not classified as dangerous goods according to the ADG Code.

Not classified as hazardous according to criteria of NOHSC.

**Hazard:**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Prevention:**

DO NOT contaminate water with the product or its container (DO NOT clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No.	Classification	Concentration [%]
Penthiopyrad	183675-82-3	-	20
1,2-benzisothiazolin-3-one	2634-33-5	Xn; R22 Xi; R38-41 R43 N; R50	< 5
Inert ingredients		-	75 – 80

**4. FIRST AID MEASURES**

General advice : Never give anything by mouth to an unconscious person.

Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Consult a doctor after significant exposure.

Skin contact : Take off all contaminated clothing immediately. Wash off with soap and water. Wash contaminated clothing before re-use. In the case of skin irritation or allergic reactions see a physician.

Eye contact : Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. If eye irritation persists, consult a specialist.

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Ingestion : Obtain medical attention. DO NOT induce vomiting without medical advice. If victim is conscious: Rinse mouth with water. Drink 1 or 2 glasses of water.

**5. FIRE-FIGHTING MEASURES**

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

Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk).

Specific hazards during fire fighting : Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO<sub>2</sub>) nitrogen oxides (NO<sub>x</sub>).

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

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.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Control access to area. Keep people away from and upwind of spill/leak. Ventilate spill area. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination. DO NOT flush into surface water or sanitary sewer system. DO NOT allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for 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

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with local regulations.

**7. HANDLING AND STORAGE**
**Handling**

Advice on safe handling : Use only according to our recommendations. Wear personal protective equipment. For personal protection see section 8. Use only clean equipment. Provide adequate ventilation. DO NOT breathe vapours or spray mist. When opening containers, avoid breathing vapours that may be emanating. Prepare the working solution as given on the label(s) and/or the user instructions. Use prepared working solution as soon as possible - Do not store. To avoid spills during handling keep bottle on a metal tray. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Never return unused material to storage receptacle. Avoid exceeding of the given occupational exposure limits (see section 8).

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge.

**Storage**

Requirements for storage areas and containers : KEEP OUT OF REACH OF CHILDREN. Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight..

Advice on common storage : No special restrictions on storage with other products. Keep away from: Strong oxidizing agents

Other data : Stable under recommended storage conditions.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Engineering measures**

No special requirements. Product is used outdoors. Follow precaution statements on the label and the use and safety directions.

**Personal protective equipment**

When opening the container, preparing and using the product wear cotton overalls (or equivalent clothing) buttoned to the neck and wrist and a washable hat. Wash hands after use. After each day's use wash contaminated clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : Liquid,

Colour : Off-white,

Odour : Slight, ester-like,

pH : 6,66 at 10 g/l

Boiling point/boiling range : No data available

Flash point : > 105 °C

Autoignition temperature : ca.385 °C

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Oxidizing properties : The product is not oxidizing.

Vapour pressure : No data available

Relative density : 0,9789

Water solubility : Dispersible

Viscosity, dynamic : 770,7 mPa.s , 30 rpm

**10. STABILITY AND REACTIVITY**

Conditions to avoid : Exposure to sunlight. Decomposes on heating. Protect from frost.

Materials to avoid : Strong oxidizing agents

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

Hazardous reactions : No dangerous reaction known under conditions of normal use. Polymerization will not occur. No decomposition if stored and applied as directed.

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50/ rat: > 5 000 mg/kg  
Method: OECD Test Guideline 425  
(Data on the product itself)  
Information source: Internal study report

Acute inhalation toxicity : LC50/ 4 h / rat : > 3,5 mg/l  
(Data on the product itself)  
Information source: Internal study report

Acute dermal toxicity : LD50/ rat > 5 000 mg/kg  
Method: OECD Test Guideline 402  
(Data on the product itself)  
Information source: Internal study report

Skin irritation : rabbit  
Result: No skin irritation Method: OECD Test Guideline 404 (Data on the product itself)  
Information source: Internal study report

Eye irritation : rabbit  
Result: No eye irritation Method: OECD Test Guideline 405 (Data on the product itself)  
Information source: Internal study report

Sensitisation : Maximisation Test guinea pig Result: Animal test did not cause sensitization by skin contact. Method: OECD Test Guideline 406 (Data on the product itself)  
Information source: Internal study report

Mutagenicity assessment  
Penthiopyrad : Did not cause genetic damage in animals., 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.

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### Carcinogenicity assessment

Penthiopyrad : 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.

### Toxicity to reproduction assessment

Penthiopyrad : Animal testing did not show any effects on fertility.

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

Biodegradability : Not readily biodegradable. Estimation based on data obtained on active ingredient.

Bioaccumulation : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### Ecotoxicity effects

Toxicity to fish : static test EC50/ 96 h/ Oncorhynchus mykiss (rainbow trout) :: 2,2 mg/l  
Method: OECD Test Guideline 203  
(Data on the product itself) Information source: Internal study report

Toxicity to algae : / EbC50/ 72 h/ Pseudokirchneriella subcapitata (green algae): 6,5 mg/l  
Method: OECD Test Guideline 201  
(Data on the product itself) Information source: Internal study report

Toxicity to daphnia : static test / EC50/ 48 h/ Daphnia magna (Water flea): 0,29 mg/l  
Method: OECD Test Guideline 202  
(Data on the product itself)

## 13. DISPOSAL CONSIDERATIONS

Product : Triple 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 deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. **DO NOT** burn empty containers or product.

Contaminated packaging : **DO NOT** re-use empty containers.

## 14. TRANSPORT INFORMATION

### ADG

Not classified as dangerous goods according to the ADG Code.

### IMDG

Class: 9  
Packaging group: III  
UN-Number: 3082  
Labelling No.: 9

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Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Penthiopyrad)  
Marine pollutant: Marine pollutant.

### IATA

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Contains Penthiopyrad)  
DG Class 9  
UN-Number: 3082  
Hazchem: 2X  
Packaging group: III

## 15. REGULATORY INFORMATION

Poison schedule : Unscheduled poison  
APVMA approval number 65510

## 16. OTHER INFORMATION

### Sources of key data used to compile the Safety Data Sheet:

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
5. Australian Code for the Transport of Dangerous Goods by Road & Rail No. 7 [National Transport Commission]
6. Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

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 guidance 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.