

SAFETY DATA SHEET



DuPont™ Rubigan* SC fungicide

Version 2.0

Revision Date 14.02.2010

Ref. 130000026217

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

Trade name : DuPont™ Rubigan* SC fungicide
Use of the : Fungicide
Substance/Mixture
Company : Du Pont (Australia) Ltd
7 Eden Park Drive
Macquarie Park NSW 2113
Australia

Telephone : (02) 9923 6111
Telefax : (02) 9923 6011
Emergency telephone : (02) 9923 6275 (Transport Emergency)
(24 hr Emergency Medical Information: 1800 674 415)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : C10772062

Components

Chemical Name	CAS-No.	Concentration
Fenarimol	60168-88-9	11.6 %
Propane-1,2-diol	57-55-6	5 - 15%
Non regulated ingredients		85 - 95%

3. HAZARDS IDENTIFICATION

Hazardous classification

Not classified as dangerous goods according to the ADG Code.

Not classified as hazardous according to criteria of NOHSC.

4. FIRST AID MEASURES

General advice : Never give anything by mouth to an unconscious person. 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 or going for treatment.

Inhalation : No hazards which require special first aid measures. Is not considered a potential route of exposure. Consult a physician if necessary.

Skin contact : Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.

Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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Ingestion : Consult a physician if necessary. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control centre. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray, Dry powder, Foam, Carbon dioxide (CO₂)

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

Further information : Evacuate personnel and keep upwind of fire. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Do not allow run-off from fire fighting to enter drains or water courses. Cool containers / tanks with water spray. Control run-off.

Small fires: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Review sections 5 and 7 before proceeding with clean-up. Use personal protective equipment.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas

Methods for 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 : Refer to the product label for instructions

7. HANDLING AND STORAGE**Handling**

Advice on safe handling : Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Storage

Requirements for storage areas and containers : Do not contaminate water, other pesticides, fertiliser, food or feed in storage. Store in a cool, dry place. Observe label precautions. Store product in original container only in a location inaccessible to children and pets.

Other data : Do not freeze

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits		Regulation
Propane-1,2-diol	TWA	150 ppm, 474 mg/m ³ (Total vapour and particulates.)	Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) (08 2005)
	TWA	10 mg/m ³ (Particulate.)	Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) (08 2005)

Engineering measures

Use sufficient ventilation to keep employee exposure below recommended limits.

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required
- Hand protection : Material: Polyvinyl chloride - PVC
- Eye protection : None specified
- Skin and body protection : Opening the container and preparing spray:
Wear cotton overalls buttoned to neck and wrist, and a washable hat
- Hygiene measures : Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wash thoroughly after handling. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Protective measures : End users of this product should follow label instructions for personal protection when using this product

9. PHYSICAL AND CHEMICAL PROPERTIES

- Colour : Light cream , tan, opaque
- Odour : Mild
- pH : 6.0 - 7.5
- Boiling point/boiling range : 100 °C

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Flash point : Not applicable

Density : 1.033 - 1.055 g/cm³ at 20 °C

Water solubility : Miscible

10. STABILITY AND REACTIVITY

Conditions to avoid : Stable at normal temperatures and storage conditions

Hazardous decomposition products : No information available

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50/Rat : 2,500 mg/kg

Acute oral toxicity
• Fenarimol : LD50/Rat : 2,500 mg/kg

Acute dermal toxicity : LD50/Rabbit : > 2,000 mg/kg

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Eye irritation : Rabbit
Classification: Irritating to eyes

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Repeated dose toxicity : Oral, Rat
Target Organs: Central nervous system, Altered blood chemistry, Liver effects

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Mutagenicity assessment : Caused genetic damage in animals

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Toxicity to reproduction assessment : Experiments have shown reproductive toxicity effects in male and female laboratory animals. Animal testing showed effects on reproduction that included Reduced male fertility, Reduced offspring survival, Effects on or via lactation.

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Assessment teratogenicity : Animal testing showed effects on embryo-foetal development at levels below those causing maternal toxicity

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Further information : No data is available on the product itself

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Toxicity to fish : LC50/96 h/*Lepomis macrochirus* (Bluegill sunfish): 0.9 mg/l

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- Fenarimol : LC50/96 h/*Lepomis macrochirus* (Bluegill sunfish): 0.9 mg/l

Toxicity to algae

- Fenarimol : EC50/72 h/*Pseudokirchneriella subcapitata* (Green algae): 3 mg/l

Aquatic toxicity

- Fenarimol : EC50/48 h/*Daphnia magna* (Water flea): 6.8 mg/l

Further information on ecology

Additional ecological information : No data is available on the product itself. See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS

Product : Do not contaminate ponds, waterways or ditches with chemical or used container

Contaminated packaging : Do not re-use empty containers

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

Further information : Not classified as dangerous goods according to the ADG Code

15. REGULATORY INFORMATION

Further information : Not classified as hazardous according to criteria of NOHSC

National regulatory information

SUSDP : Schedule 5

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 Drugs and Poisons (SUSDP), No. 19 [NDPSC: 2004]
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

Department:

Du Pont (Australia) Ltd
7 Eden Park Drive
Macquarie Park NSW 2113
Australia

Further information:

® DuPont's registered trademark
* Rubigan is a registered trademark of Gowan LLC
Take notice of the directions of use on the label.

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.