

# MATERIAL SAFETY DATA SHEET



Date of Issue: October 8<sup>th</sup>, 2008

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name** Monceren<sup>®</sup> 125 DS Fungicide  
**Other names** None  
**Product codes and pack sizes** 5956195 (10 x 2 kg), 5749491 (4 x 5 kg)  
**Chemical group** Phenylurea  
**Recommended use** Fungicide for agricultural use – seed treatment for potatoes  
**Formulation** Powder for dry seed treatment (DS)  
**Supplier** Bayer CropScience Pty Ltd ABN 87 000 226 022  
**Address** 391 - 393 Tooronga Road, East Hawthorn  
Victoria 3123, Australia  
**Telephone** (03) 9248 6888  
**Facsimile** (03) 9248 6800  
**Website** [www.bayercropscience.com.au](http://www.bayercropscience.com.au)  
**Contact** Development Manager (03) 9248 6888  
**Emergency Telephone Number** 1800 033 111 – Orica SH&E Shared Services

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**  
**NON-HAZARDOUS SUBSTANCE – NON-DANGEROUS GOOD**  
Harmful to aquatic organisms

**Hazard classification** Not Hazardous (National Occupational Health and Safety Commission - NOHSC)  
**Risk phrases** None assigned  
**Safety phrases** See Sections 4, 5, 6, 7, 8, 10, 12, 13  
**ADG classification** Not a "Dangerous good" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
**SUSDP classification** Exempt (Standard for the Uniform Scheduling of Drugs and Poisons)

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (g/kg)
Pencycuron	[66063-05-6]	125
Calcium carbonate	[471-34-1] or [1317-65-3]	300 - 600
Talc	[14807-96-6]	100 - < 300
Kaolin	[1332-58-7]	100 - < 300
Silica, quartz (in kaolin)	[14808-60-7]	(variable)
Other ingredients, including sticker and dye	(non hazardous)	< 100

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## 4. FIRST AID MEASURES

**If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to the doctor.**

<b>Inhalation</b>	If inhaled remove to fresh air and keep at rest. Obtain medical advice.
<b>Skin contact</b>	Carefully remove contaminated clothing. Wash affected areas with soap and water. Seek medical aid if at all worried.
<b>Eye contact</b>	Rinse eyes immediately with clean water for at least 15 minutes and obtain medical aid.
<b>Ingestion</b>	Wash out mouth with water. Do NOT induce vomiting. Keep patient at rest and seek medical advice as above.
<b>First Aid Facilities</b>	Ensure eyewash and shower facilities are available.
<b>Medical attention</b>	Pencycuron is a urea derivative fungicide of low toxicity. <i>Local contamination:</i> In case of skin or eye contamination, treat as above under First Aid Measures. <i>Systemic poisoning:</i> There is no specific antidote. Treat symptoms.

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Water spray, carbon dioxide, foam, sand
<b>Hazards from combustion products</b>	In a fire, formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides can be expected.
<b>Precautions for fire fighters</b>	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of extinguishing agent and spillage safely later.
<b>Hazchem code</b>	Not applicable

## 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. Do not smoke, eat or drink during the clean up process. Wear personal protective clothing and equipment as detailed in Section 8 PERSONAL PROTECTION. Keep people and animals away. Prevent spilled material from entering drains or watercourses. Avoid creation of dust, damping down if necessary. Sweep up and collect and store in properly labelled drums for safe disposal. Clean floor with a damp cloth and place it in the drum. Seal drums and label ready for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc. is unavoidable, warn the local water authority.

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## 7. HANDLING AND STORAGE

<b>Handling</b>	Keep out of reach of children. Avoid contact with eyes and skin and avoid inhalation of dust. Wash hands after use. Do not allow seed potatoes treated with this product to be used for human or animal consumption.
<b>Storage</b>	Store product in the closed original container in a dry, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Keep away from sources of ignition.
<b>Flammability</b>	Not flammable, but fine dust particles can form explosive mixtures with air.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure standards</b>	National Occupational Health and Safety Commission (NOHSC) exposure standards: TWA for calcium carbonate is 10 mg/m <sup>3</sup> TWA for talc is 2.5 mg/m <sup>3</sup> TWA for kaolin is 10 mg/m <sup>3</sup> (as inspirable dust) TWA for silica, quartz is 0.1 mg/m <sup>3</sup> .
	<u>Definitions:</u> <i>Exposure standard – Time Weighted Average (TWA)</i> means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.
<b>Biological limit values</b>	None allocated
<b>Engineering controls</b>	Control process conditions to avoid contact. Use in a well-ventilated area only.
<b>Personal Protective Equipment</b>	Eyes: Safety goggles if exposure is likely, however not usually required during normal use. Clothing: Suitable work clothing to prevent skin exposure Gloves: Elbow-length PVC gloves if exposure is likely, however not usually required during normal use. Respiratory: Wear a disposable respirator if exposure is likely, however not usually required during normal use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Red powder
<b>Odour:</b>	Slight characteristic
<b>pH:</b>	Not applicable
<b>Vapour pressure:</b>	5 x 10 <sup>-7</sup> mPa (20° C, extrapolated)
<b>Vapour density:</b>	Not available
<b>Boiling point:</b>	Not applicable
<b>Freezing/melting point:</b>	Not available
<b>Solubility:</b>	Insoluble in water
<b>Bulk density:</b>	Not available
<b>Flash Point:</b>	Not applicable
<b>Flammability (explosive) limits:</b>	Not applicable

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## 9. PHYSICAL AND CHEMICAL PROPERTIES - continued

Auto-ignition temperature: Not self-ignitable  
Partition coefficient (octanol/water): *Pencycuron*: Log  $P_{ow}$  = 4.68 at 20° C

## 10. STABILITY AND REACTIVITY

Chemical stability Stable under normal conditions of use.  
Conditions to avoid Extremes of temperature and direct sunlight  
Incompatible materials Acids  
Hazardous decomposition products In a fire, formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides can be expected.  
Hazardous reactions None

## 11. TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

Inhalation Harmful if inhaled.  
Skin contact Not expected to irritate the skin.  
Eye contact Not expected to irritate the eyes.  
Ingestion Harmful if swallowed.

### ANIMAL TOXICITY DATA - *PRODUCT*

#### Acute:

Oral toxicity LD<sub>50</sub> rat: > 5000 mg/kg  
Dermal toxicity LD<sub>50</sub> rat: > 2000 mg/kg  
Inhalation toxicity LC<sub>50</sub> rat (4 hour): > 3043 mg/L (respirable aerosol)  
Skin irritation Not irritating (rabbit) (*similar formulation*)  
Eye irritation Not irritating (rabbit) (*similar formulation*)  
Sensitisation Not a skin sensitiser (guinea pig)

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## 11. TOXICOLOGICAL INFORMATION - continued

### Chronic:

Pencycuron is not mutagenic, and was not carcinogenic or teratogenic and did not induce birth defects in animal studies. This product contains a small amount of crystalline silica, which is a naturally occurring mineral component of many sands and clays. Excessive long-term exposure to respirable crystalline silica may cause lung damage. Crystalline silica is classified as a carcinogen.

## 12. ECOLOGICAL INFORMATION

Pencycuron presents a low hazard to birds, earthworms, bees and mammals. It is toxic to algae. Pencycuron is toxic to *Daphnia*, but the formulated product is much less toxic to *Daphnia*.

DO NOT allow seed potatoes treated with this product to be used for animal consumption. DO NOT contaminate streams, rivers, or waterways with the chemical, used containers or treated potatoes.

### Ecotoxicity

#### Pencycuron:

*Fish toxicity:* LC<sub>50</sub> (96 h) rainbow trout > 690 mg/L

LC<sub>50</sub> (96 h) bluegill sunfish 127 mg/L

*Algal toxicity:* EC<sub>50</sub> (96 h) (*Scenedesmus subspicatus*) 0.059 mg/L

*Bird toxicity:* LD<sub>50</sub> bobwhite quail > 2000 mg/kg

#### Monceren 125:

*Daphnia toxicity:* EC<sub>50</sub> (48 h) water flea (*Daphnia magna*) > 100 mg/L

### Environmental fate, persistence and degradability, mobility

Leaching and absorption behaviour in soil characterises the compound as slightly mobile. Degraded in soil very effectively under laboratory conditions. Based on DT<sub>50</sub> values, pencycuron is classified as moderately stable to stable.

## 13. DISPOSAL CONSIDERATIONS

Single rinse before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Puncture and bury empty bags in a local authority landfill. If not available, bury containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty bags and product should not be burnt. Dispose of waste product through a reputable waste contractor.

## 14. TRANSPORT INFORMATION

UN number	Not applicable
Proper shipping name	Not applicable
Class and Subsidiary Risk	Not applicable
Packing Group	Not applicable
EPG	Not applicable
Hazchem code	Not applicable
Marine Pollutant	No

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## 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994

Australian Pesticides and Veterinary Medicines Authority approval number: 55038

See also Section 2.

## 16. OTHER INFORMATION

**Trademark information** Monceren<sup>®</sup> is a Registered Trademark of Bayer.

**Preparation information** Replaces December 14, 2004 edition.

Reasons for revision: Product codes, Exposure standards, Personal protective equipment, Acute toxicological data, Ecological information, Disposal considerations.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS