

# MATERIAL SAFETY DATA SHEET



Date of Issue: September 1, 2005

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name** **Scala<sup>®</sup> 400 SC Fungicide**

**Other names** None

**Product codes and pack sizes** 4175114 (5 L), 4175149 (10 L), 4328824 (60 L)

**Chemical group** Anilinopyrimidine

**Recommended use** Fungicide for agricultural use

**Formulation** Suspension concentrate (SC)

**Supplier** Bayer CropScience Pty Ltd ABN 87 0 00 226 022

**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

**Safety phrases** See Sections 4, 5, 6, 7, 8, 10, 12, 13

**ADG classification** Not a "Dangerous good" for transport by road or rail in Australia according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**SUSDP classification (poison schedule)** Exempt (Standard for the Uniform Scheduling of Drugs and Poisons)

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (g/L)
Pyrimethanil	[53112-28-0]	400
Other ingredients, mostly water	(non hazardous)	670

## 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.**

**Inhalation** If inhaled remove to fresh air and keep at rest. Obtain medical advice.

# MATERIAL SAFETY DATA SHEET



Date of Issue: September 1, 2005

## 4. FIRST AID MEASURES - continued

<b>Skin contact</b>	Carefully remove contaminated clothing. Wash affected areas with soap and water. Seek medical aid if irritation persists.
<b>Eye contact</b>	Rinse eyes immediately with clean water for at least 15 minutes. If symptoms persist seek medical aid.
<b>Ingestion</b>	Wash out mouth with water. Do NOT induce vomiting. Give water to drink. Seek medical advice as above.
<b>First Aid Facilities</b>	Ensure washing facilities, including an eyewash station, are available.
<b>Medical attention</b>	<i>Local contamination:</i> Slight irritation is possible. For local contamination, treatment should be symptomatic after decontamination. <i>Systemic poisoning:</i> No symptoms have been reported with this product. For systemic poisoning initial treatment should be symptomatic and supportive. Gastric lavage is not required. However, administration of activated charcoal and sodium sulphate can be considered for significant ingestions. There is no antidote for poisoning with pyrimethanil.

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	As this product is not combustible, use extinguishing agent suitable for the surrounding fire.
<b>Hazards from combustion products</b>	In a fire, formation of oxides of carbon and nitrogen 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. Otherwise spray unopened containers with water to cool. 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. Contain spill and absorb with earth, sand, clay, or other absorbent material. Prevent spilled material from entering drains or watercourses. 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.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Keep out of reach of children. Will irritate the skin. Avoid contact with skin. Wash hands after use. After each day's use, wash gloves and contaminated clothing.
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# MATERIAL SAFETY DATA SHEET



Date of Issue: September 1, 2005

## 7. HANDLING AND STORAGE - continued

<b>Storage</b>	Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Protect from frost.
<b>Flammability</b>	Not combustible

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure standards</b>	There are no applicable NOHSC exposure standards.
<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 Clothing: Cotton overalls buttoned to the neck and wrist and a washable hat Gloves: Elbow-length PVC gloves Respiratory: Respiratory protection is not normally required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Beige liquid
<b>Odour:</b>	Almost odourless
<b>pH:</b>	8.1 (1% in water) at 22° C
<b>Vapour pressure:</b>	2.2 mPa at 25° C (pyrimethanil)
<b>Vapour density:</b>	Not available
<b>Boiling point:</b>	100° C
<b>Freezing/melting point:</b>	Not available
<b>Solubility:</b>	Disperses in water
<b>Specific Gravity:</b>	1.07 at 20° C
<b>Flash Point:</b>	> 110° C
<b>Flammability (explosive) limits:</b>	Not available
<b>Auto-ignition temperature:</b>	Not self ignitable
<b>Partition coefficient (octanol/water):</b>	<i>Pyrimethanil</i> : Log $P_{ow}$ = 2.84 at 25° C

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable under normal conditions of use.
<b>Conditions to avoid</b>	Excessive heat, freezing
<b>Incompatible materials</b>	None known
<b>Hazardous decomposition products</b>	In a fire, formation of oxides of carbon and nitrogen can be expected. No thermal decomposition up to 150° C.

# MATERIAL SAFETY DATA SHEET



Date of Issue: September 1, 2005

## 10. STABILITY AND REACTIVITY - continued

**Hazardous reactions** None

## 11. TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

<b>Inhalation</b>	Harmful if inhaled. Low toxicity.
<b>Skin contact</b>	Will irritate skin. The dermal toxicity of this product is low. It is not a skin sensitiser. (Scala is not classified as a skin irritant according to NOHSC criteria.)
<b>Eye contact</b>	May irritate eyes.
<b>Ingestion</b>	Harmful if swallowed. Low toxicity.

### TOXICITY DATA – SIMILAR PRODUCT

#### Acute:

<b>Oral toxicity</b>	LD <sub>50</sub> rat: > 5000 mg/kg
<b>Dermal toxicity</b>	LD <sub>50</sub> rat: > 4000 mg/kg
<b>Inhalation toxicity</b>	LC <sub>50</sub> rat (4 hour): > 1.26 mg/L. Highest attainable concentration. No deaths.
<b>Skin irritation</b>	Slightly irritating (rabbit)
<b>Eye irritation</b>	Non irritating (rabbit)
<b>Sensitisation</b>	Not sensitising (guinea pig)

#### Chronic:

Pyrimethanil is not listed as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or the American Conference of Industrial Hygienists (ACGIH). Pyrimethanil was not a reproductive toxicant and was not teratogenic in animal studies. Pyrimethanil is not mutagenic.

## 12. ECOLOGICAL INFORMATION

This product is harmful to aquatic organisms. It has a low toxicity to birds, bees and earthworms and a range of beneficials. DO NOT contaminate streams, rivers or waterways with the product or used containers.

### **Ecotoxicity**

#### Pyrimethanil:

<b>Fish toxicity:</b>	LC <sub>50</sub> (96 h) mirror carp 35.4 mg/L
	LC <sub>50</sub> (96 h) rainbow trout 10.6 mg/L
<b>Daphnia toxicity:</b>	LC <sub>50</sub> (48 h) water flea ( <i>Daphnia magna</i> ) 2.9 mg/L
<b>Algal toxicity:</b>	E <sub>r</sub> C <sub>50</sub> (96 h) algae ( <i>Selenastrum capricornutum</i> ) 5.84 mg/L
	E <sub>b</sub> C <sub>50</sub> (96 h) algae ( <i>Selenastrum capricornutum</i> ) 1.2 mg/L
<b>Bird toxicity:</b>	Acute oral LD <sub>50</sub> mallard duck, bobwhite quail > 2000 mg/kg

#### Scala:

<b>Fish toxicity:</b>	LC <sub>50</sub> (96 h) rainbow trout 53 mg/L
<b>Daphnia toxicity:</b>	EC <sub>50</sub> (48 h) water flea ( <i>Daphnia magna</i> ) 10.4 mg/L
<b>Algal toxicity:</b>	IC <sub>50</sub> (72 h) algae ( <i>Selenastrum capricornutum</i> ) 16 mg/L

# MATERIAL SAFETY DATA SHEET



Date of Issue: September 1, 2005

## 12. ECOLOGICAL INFORMATION - continued

**Environmental fate, persistence and degradability, mobility** The half life of pyrimethanil in soil: Under laboratory conditions:  $DT_{50} = 27-82$  days; under field conditions  $DT_{50} = 7-54$  days. It has a low potential for leaching into groundwater or moving to deeper soil layers. Pyrimethanil disappears rapidly from surface water and moderately adsorbs to the sediment, from which it is further degraded. Pyrimethanil is considered not readily biodegradable.

## 13. DISPOSAL CONSIDERATIONS

When returnable container is empty or contents no longer required return it to the point of purchase. For non-returnable containers, triple or (preferably) pressure rinse them 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. Dispose of waste product via a reputable disposal contractor.

## 14. TRANSPORT INFORMATION

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

## 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988  
Australian Pesticides and Veterinary Medicines Authority approval number: 46026

## 16. OTHER INFORMATION

**Trademark information** Scala® is a Registered Trademark of Bayer.

**Preparation information** Replaces August 1, 2002 MSDS.  
Reasons for revision: 16 heading format, product codes and pack sizes

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