

Safety Data Sheet



Scala® 400 SC Fungicide

Version 2 / AUS
10200000850

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Revision Date: 15.09.2017
Print Date: 15.09.2017

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Trade name Scala® 400 SC Fungicide
Product code (UVP) 05934583

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Fungicide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer Cropscience Pty Ltd
ABN 87 000 226 022
Level 1, 8 Redfern Road
3123 Hawthorn East
Victoria
Australia

Telephone (03) 9248 6888
Telefax (03) 9248 6800
Responsible Department 1800 804 479 Technical Information Service
Website www.crop.bayer.com.au

1.4 Emergency telephone no.

Emergency telephone no. 1800 033 111 IXOM Operations Pty Ltd

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Australian GHS Regulation

Chronic aquatic toxicity: Category 3
H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

No hazard label for supply/use required.

2.3 Other hazards

No other hazards known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Pyrimethanil 400 g/l
Suspension concentrate (=flowable concentrate)(SC)

| Chemical name | CAS-No. | Concentration [%] |
|---------------|------------|-------------------|
| Pyrimethanil | 53112-28-0 | 37.40 |



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| | | |
|---|-----------|------------------|
| 1,2-Propanediol | 57-55-6 | > 1.00 - < 5.00 |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 | > 0.005 - < 0.05 |
| Other ingredients (non-hazardous) to 100% | | |

SECTION 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 Safety Data Sheet to the doctor.

4.1 Description of first aid measures

| | |
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| General advice | Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely. |
| Inhalation | Move to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician. |
| Skin contact | Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately. |

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment Treat symptomatically. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

| | |
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| Suitable | Water spray, Carbon dioxide (CO ₂), Foam, Sand |
| Unsuitable | High volume water jet |



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| 5.2 Special hazards arising from the substance or mixture | In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NOx) |
| 5.3 Advice for firefighters | |
| Special protective equipment for firefighters | Wear self-contained breathing apparatus and protective suit. |
| Further information | Avoid contact with spilled product or contaminated surfaces. Evacuate personnel to safe areas. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazchem Code | Not applicable |

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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| Precautions | Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. Keep unauthorized people away. Use personal protective equipment. |
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| 6.2 Environmental precautions | Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities. |
|--------------------------------------|--|

6.3 Methods and materials for containment and cleaning up

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| Methods for cleaning up | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal. |
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| | |
|--|---|
| 6.4 Reference to other sections | Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13. |
|--|---|

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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|--------------------------------|---|
| Advice on safe handling | Use only in area provided with appropriate exhaust ventilation. |
| Hygiene measures | Avoid contact with skin, eyes and clothing. After each day's use, wash gloves, face shield or goggles and contaminated clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Garments that cannot be cleaned must be destroyed (burnt). |

7.2 Conditions for safe storage, including any incompatibilities



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Requirements for storage areas and containers Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Protect from frost.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

| Components | CAS-No. | Control parameters | Update | Basis |
|---|------------|---|---------|----------|
| Pyrimethanil | 53112-28-0 | 5.6 mg/m ³ (TWA) | | OES BCS* |
| 1,2-Propanediol (Total vapour and particulates.) | 57-55-6 | 474 mg/m ³ /150 ppm (TWA) | 12 2011 | AU NOEL |
| 1,2-Propanediol (Particulate.) | 57-55-6 | 10 mg/m ³ (TWA) | 12 2011 | AU NOEL |

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

Additional advice
Not established.

8.2 Exposure controls

Respiratory protection Respiratory protection is not required under anticipated circumstances of exposure. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

| | |
|----------------------|--|
| Material | Nitrile rubber |
| Rate of permeability | > 480 min |
| Glove thickness | > 0.4 mm |
| Protective index | Class 6 |
| Directive | Protective gloves complying with EN 374. |

Eye protection Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection Wear standard coveralls and Category 3 Type 6 suit. If there is a risk of significant exposure, consider a higher protective



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type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

General protective measures

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the above mentioned recommendations would apply.

Engineering Controls

Advice on safe handling Use only in area provided with appropriate exhaust ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Form | suspension |
| Colour | beige |
| Odour | almost odourless |
| pH | 6.0 - 8.0 at 100 % (23 °C) |
| Flash point | >110 °C |
| Ignition temperature | > 600 °C |
| Auto-ignition temperature | The product is not self-ignitable. |
| Density | ca. 1.07 g/cm ³ at 20 °C |
| Water solubility | dispersible |
| Partition coefficient: n-octanol/water | Pyrimethanil: log Pow: 2.84 |
| Viscosity, dynamic | 50 - 120 mPa.s at 20 °C Velocity gradient 100 /s |
| Surface tension | ca. 51 mN/m at 20 °C Determined as a 1% solution in distilled water. |
| Explosivity | Not explosive |
| 9.2 Other information | Further safety related physical-chemical data are not known. |

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No hazardous reactions when stored and handled according to prescribed instructions.



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- 10.4 Conditions to avoid** Extremes of temperature and direct sunlight.
- 10.5 Incompatible materials** No data available
- 10.6 Hazardous decomposition products** Thermal decomposition can lead to release of:
Hydrogen cyanide (hydrocyanic acid)
Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute oral toxicity** LD50 (Rat) > 5,000 mg/kg
Test conducted with a similar formulation.
- Acute inhalation toxicity** LC50 (Rat) > 1.26 mg/l
Exposure time: 4 h
Highest attainable concentration.
No deaths
Test conducted with a similar formulation.
- Acute dermal toxicity** LD50 (Rat) > 4,000 mg/kg
Test conducted with a similar formulation.
- Skin irritation** Slight irritation (Rabbit)
Test conducted with a similar formulation.
- Eye irritation** No eye irritation (Rabbit)
Test conducted with a similar formulation.
- Sensitisation** Non-sensitizing. (Guinea pig)
Test conducted with a similar formulation.

Assessment mutagenicity

Pyrimethanil was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Pyrimethanil was not carcinogenic in lifetime feeding studies in mice. Pyrimethanil caused at high dose levels an increased incidence of tumours in rats in the following organ(s): Thyroid. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

Assessment toxicity to reproduction

Pyrimethanil did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Pyrimethanil did not cause developmental toxicity in rats and rabbits.

Assessment STOT Specific target organ toxicity – single exposure

Pyrimethanil: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure

Pyrimethanil did not cause any significant specific adverse effects or target organ toxicity in subchronic toxicity studies.



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Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

May be harmful if inhaled.
May cause skin irritation.
May cause eye irritation.
May be harmful if swallowed.

Early onset symptoms related to exposure

Refer to Section 4

Delayed health effects from exposure

Refer to Section 11

Exposure levels and health effects

Refer to Section 4

Interactive effects

Not known

When specific chemical data is not available

Not applicable

Mixture of chemicals

Refer to Section 2.1

Further information

No further toxicological information is available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

| | |
|--|---|
| Toxicity to fish | LC50 (Oncorhynchus mykiss (rainbow trout)) 53 mg/l Exposure time: 96 h |
| Toxicity to aquatic invertebrates | EC50 (Daphnia magna (Water flea)) 10.4 mg/l Exposure time: 48 h |
| Toxicity to aquatic plants | IC50 (Raphidocelis subcapitata (freshwater green alga)) 16 mg/l Growth rate; Exposure time: 72 h |
| Toxicity to other organisms | LD50 (Duck and Quail) > 2,000 mg/kg The value mentioned relates to the active ingredient pyrimethanil. |

12.2 Persistence and degradability

Biodegradability Pyrimethanil:
Not rapidly biodegradable

Koc Pyrimethanil: Koc: 301

12.3 Bioaccumulative potential



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| Bioaccumulation | Pyrimethanil: Does not bioaccumulate. |
| 12.4 Mobility in soil | |
| Mobility in soil | Pyrimethanil: Moderately mobile in soils |
| 12.5 Other adverse effects | |
| Additional ecological information | No other effects to be mentioned. |

SECTION 13. DISPOSAL CONSIDERATIONS

Metal drums and plastic 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.

Do not reuse container for any other purpose.

SECTION 14. TRANSPORT INFORMATION

According to national and international transport regulations not classified as dangerous goods.

SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994

Australian Pesticides and Veterinary Medicines Authority approval number: 46026

SUSMP classification (Poison Schedule)

Exempt (Standard for the Uniform Scheduling of Medicines and Poisons)

SECTION 16. OTHER INFORMATION

Trademark information Scala® is a Registered Trademark of the Bayer Group.

This SDS 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 SDS 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.



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Abbreviations and acronyms

| | |
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| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute toxicity estimate |
| AU OEL | Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) |
| CAS-Nr. | Chemical Abstracts Service number |
| CEILING | Ceiling Limit Value |
| Conc. | Concentration |
| EC-No. | European community number |
| ECx | Effective concentration to x % |
| EINECS | European inventory of existing commercial substances |
| ELINCS | European list of notified chemical substances |
| EN | European Standard |
| EU | European Union |
| IATA | International Air Transport Association |
| IBC | International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) |
| ICx | Inhibition concentration to x % |
| IMDG | International Maritime Dangerous Goods |
| LCx | Lethal concentration to x % |
| LDx | Lethal dose to x % |
| LOEC/LOEL | Lowest observed effect concentration/level |
| MARPOL | MARPOL: International Convention for the prevention of marine pollution from ships |
| N.O.S. | Not otherwise specified |
| NOEC/NOEL | No observed effect concentration/level |
| OECD | Organization for Economic Co-operation and Development |
| OES BCS | OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard" |
| PEAK | PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes. |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SK-SEN | Skin sensitizer |
| SKIN_DES | SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure. |
| STEL | STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL. |
| TWA | TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week. |
| TWA | Time weighted average |
| UN | United Nations |
| WHO | World health organisation |

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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