

MATERIAL SAFETY DATA SHEET

PROSPER 500 EC FUNGICIDE

A09532



Effective August 1, 2002

Statement of Hazardous Nature

Hazardous according to criteria of the National Occupational Health and Safety Commission.

COMPANY DETAILS:

Company: Bayer CropScience Pty Ltd ABN 87 000 226 022
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Victoria 3123 Australia
Telephone/Facsimile: (03) 9248 6888/(03) 9248 6800
Website Address: www.bayercropscience.com.au
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

Identification

Product Name

PROSPER 500 EC FUNGICIDE

Issued	August 1, 2002	Supersedes	25/07/2001		
UN No.	2902	Hazardous?	Yes	Hazchem	2X
DG Class	6.1	Poison Schedule	S6	Product Code	2813363
Sub Risk	None	Package Group	III	EPG	34

Uses

Agricultural fungicide for control of diseases as specified on the product label.

Application Methods

Product Descriptor: PROSPER
Proper Shipping Name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains spiroxamine)
Chemical Characterisation: 500 g/L Spiroxamine
alkylaryl polyglycol ether, 4-dodecylbenzenesulphonic acid-monoethanolamine salt.
Chemical Group: Spiroketalamine

Physical Description/Properties

Form: emulsifiable concentrate liquid
Colour: brown, clear to slightly turbid
Odour: aromatic
Change in Physical State:
melting point (degrees C): not applicable
boiling point (degrees C): not established
Density (kg/litre): 1 g/cubic cm at 20 degrees C
Vapour Pressure (at 20 degrees C): not established

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A09532



Viscosity:	not established
Solubility in Water:	emulsifiable in water
pH Value (10% in water):	not established
Flash Point (closed cup):	109 degrees C
Ignition Temperature:	not established

Ingredients

Ingredient	CAS Nr	Proportion
Spiroxamine	118134-30-8	500 g/L
Emulsifier		Med
Solvent benzyl alcohol	100-51-6	Med

Proportion (% weight/weight): Med = 10-29%

Health Hazard Information

Health Effects

No adverse health effects are expected if this product is used in accordance with the label. No symptoms of intoxication are to be expected.

Chronic: Animal studies have shown no evidence of oncogenic effect, no evidence of carcinogenic effects and no teratogenic potential.

Eye

May irritate the eyes.

Inhaled

May produce respiratory irritation if inhaled.

First Aid

If poisoning occurs contact a doctor or Poisons Information Centre (telephone 13 11 26).

Skin

Remove all contaminated clothing including shoes. Wash affected areas with soap and water.

Eye

If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

Inhaled

Remove the patient to fresh air and make comfortable. Ensure that patient is kept strictly at rest.

MATERIAL SAFETY DATA SHEET

PROSPER 500 EC FUNGICIDE

A09532



Advice to Doctor

This product is unlikely to cause poisoning. If poisoning occurs treat symptomatically.

Antidote: none known

Precautions for Use

Exposure Standards

NOHSC exposure standards have not been assigned for the active ingredient or the excipients in the formulation.

Engineering Controls

Not applicable.

Personal Protection

Personal Protective Measures:

Avoid contact with eyes, skin and clothing during mixing/pouring operations. Ensure adequate ventilation. Do not inhale spray mist or vapour.

Personal Protective Equipment:

When preparing spray wear elbow-length PVC gloves and face shield.

Industrial Hygiene:

If clothing becomes contaminated with product, or wet with spray, remove clothing immediately. If product or spray on skin, immediately wash the area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash contaminated clothing, gloves etc. with detergent and water.

Flammability

Protection Against Fire:

Product is stable. Avoid strong oxidising agents. Keep away from sources of ignition. Not flammable under normal conditions of use.

Safe Handling Information

Storage

Keep out of reach of children. Store in the tightly closed original container in a dry, well ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Do not store near any material intended for use or consumption by humans or animals.

MATERIAL SAFETY DATA SHEET

PROSPER 500 EC FUNGICIDE

A09532



Transport

Classification according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)

Shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains spiroxamine)
Packing group: III UN No: 2902
DG Class: 6.1 Sub Risk: None Hazchem: 2X EPG 34

Dangerous Goods / Hazardous Substances Regulation

This product is subject to the following regulations:

- Australian Code for the Transport of Dangerous Goods by Road and Rail
- State/Territory Storage of Dangerous Goods Regulations
- State/Territory Hazardous Substances Regulations
- Standard for the Uniform Scheduling of Drugs and Poisons

Spills

Prevent spill from spreading or entering waterways or drains. Take up with absorbent material such as sawdust, peat, soil or binding agent for chemicals. Fill material along with any contaminated soil etc. into sealable containers. Clean affected area with an aqueous detergent and a small amount of water. Absorb this with hydrated lime and place in a sealable drum. On completion of clean-up remove and wash all protective clothing and equipment with detergent and water. Any heavily contaminated clothing should be placed in a plastic garbage bag and placed in a sealable drum. Do not smoke, eat or drink during the clean-up operation.

Disposal

1) After intended use:

Triple or (preferably) pressure rinse container before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. Break, puncture, crush and bury rinsed container in a local authority landfill (check local statutory requirements). If not available, bury the container below 500 mm in a marked disposal pit specifically set up for this purpose, clear of waterways, vegetation and roots. Empty container and product should not be burnt.

2) After spill or accident:

Dispose of sealed containers at an approved local waste disposal site.

Fire/Explosion Hazard

Dangerous Decomposition or Combustion Products:

Thermal Decomposition:

Hazardous polymerisation will not occur.

Hazardous Decomposition Products:

In the event of fire the formation of hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated.

Hazardous Reactions: none

MATERIAL SAFETY DATA SHEET

PROSPER 500 EC FUNGICIDE

A09532



Extinguishing Media: sprayed water jet, extinguishing powder, foam, carbon dioxide

Further Information:

Special fire fighting procedures: Wear full protective clothing and self-contained breathing apparatus.

Other Information

Information on Toxicity

LD50 oral (ingestion) - rat (male):	approx. 1,000 mg/kg (Bayer) i.e. harmful
LD50 oral (ingestion) - rat (female):	>200-<1,000 mg/kg (Bayer) i.e. harmful
LD50 dermal (skin contact) rat:	>2,000 mg/kg (Bayer) i.e. practically non-toxic
LC50 inhalation - rat:	2,300 mg/cubic metre (4 h, aerosol) i.e. practically non-toxic
Irritation of the skin - rabbit:	moderately irritant
Irritation of the mucous membrane - rabbit:	severely irritant

Information on Ecological Effects

Low toxicity to bees.

Harmful to algae and fish.

Do NOT contaminate ponds, waterways or drains with the product or used container.

Toxicity test results:

For the active ingredient:

LC50 fish:	11.5 mg/L (5.7 mg ai/L); rainbow trout (<i>Oncorhynchus mykiss</i>)
EC50 algae:	0.0032 mg ai/L green algae (<i>Scenedesmus subspicata</i>)
EC50 daphnid:	5.1 mg ai/L water flea (<i>Daphnia magna</i>)
LC50 earthworm:	>1000 mg/kg dry soil; earthworms (<i>Eisenia foetida</i>).

DISCLAIMER

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.