



SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name	EverGol® Prime Seed Treatment
Other names	none
Product code (UVP)	80210922
Chemical Group	pyrazole
Recommended use	Fungicide, Seed treatment
Chemical Formulation	Flowable concentrate for seed treatment (FS)
Company	Bayer CropScience Pty Ltd –ABN 87 000 226 022 391-393 Tooronga Road, East Hawthorn Victoria 3123, Australia
Telephone	(03) 9248 6888
Technical Information Service	1800 804 479
Facsimile	(03) 9248 6800
Website	www.bayercropscience.com.au
Emergency telephone no.	1800 033 111 Orica SH&E Shared Services

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

HAZARDOUS SUBSTANCE

DANGEROUS GOODS

Hazardous classification	Hazardous (National Occupational Health and Safety Commission - NOHSC)
R-phrase(s)	R40 - Limited evidence of a carcinogenic effect.
S-phrase(s)	See sections 4, 5, 6, 7, 8, 10, 12, 13.
ADG Classification	"Dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. - See Section 14.
SUSMP classification (Poison Schedule)	Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature
 Penflufen: 240 g/L active ingredient

Chemical Name	CAS-No.	Concentration [%]
Penflufen	494793-67-8	22.40
1,2-Propanediol	57-55-6	10.00
Silicon dioxide	7631-86-9	0.60
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.

Inhalation

Move the victim to fresh air and keep at rest. Call a physician or poison control center immediately. Oxygen or artificial respiration if needed.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Call a physician or poison control center immediately.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion

Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Call a physician or poison control center immediately.

Notes to physician

Treatment

Treat symptomatically.
In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.
There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazards from combustion products

Dangerous gases are evolved in the event of a fire.

Precautions for fire-fighting

Wear self-contained breathing apparatus and protective suit.
Evacuate personnel to safe areas.
Keep out of smoke.
Fight fire from upwind position.
Cool closed containers exposed to fire with water spray.
Do not allow run-off from fire fighting to enter drains or water courses.
Whenever possible, contain fire-fighting water by diking area with sand or earth.

Hazchem Code •3Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Isolate hazard area.
Keep unauthorized people away.
Avoid contact with spilled product or contaminated surfaces.



Environmental precautions

Do not allow to get into surface water, drains and ground water.
Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
Apply this product as specified on the label.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Collect and transfer the product into a properly labelled and tightly closed container.
Contaminated soil may have to be removed and disposed.
Clean contaminated floors and objects thoroughly, observing environmental regulations.

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

Handling

Hygiene measures

Remove Personal Protective Equipment (PPE) immediately after handling this product.
After each day's use, wash gloves, face shield or goggles and contaminated clothing.
Before removing gloves clean them with soap and water.
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Remove soiled clothing immediately and clean thoroughly before using again.
Wash thoroughly and put on clean clothing.

Storage

Requirements for storage areas and containers

Store in original container.
Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed.
Keep away from direct sunlight.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
1,2-Propanediol (Particulate.)	57-55-6	10 mg/m ³ (TWA)	08 2005	AU OEL
1,2-Propanediol (Total vapour and particulates.)	57-55-6	474 mg/m ³ / 150 ppm (TWA)	08 2005	AU OEL
Silica, amorphe (Respirable fraction.)	7631-86-9	2 mg/m ³ (TWA)	08 2005	AU OEL

For further details on the Occupational Exposure Standards, see Section 16.

Biological limit values
none

Personal protective equipment - End user



General advice	Eye wash facility and safety shower should be available.
Hand protection	Elbow-length PVC or nitrile gloves
Skin and body protection	Cotton overall buttoned to the neck and wrist Washable hat Impervious footwear

Engineering Controls

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	suspension
Colour	red
Odour	characteristic

Safety data

pH	6.5 - 8.0 at 100 % (23 °C)
Flash point	No flash point - Determination conducted up to the boiling point.
Ignition temperature	no data available
Minimum Ignition Energy	no data available
Upper explosion limit	no data available
Lower explosion limit	no data available
Vapour pressure	no data available
Relative vapour density	no data available
Density	ca. 1.13 g/cm ³ at 20 °C
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: 3.5 The value mentioned relates to the active ingredient.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to avoid	Extremes of temperature and direct sunlight.
Materials to avoid	Strong oxidizing agents Strong acids Strong bases



Hazardous Decomposition Products	Thermal decomposition can lead to release of: Toxic gases/vapours
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Inhalation	May be harmful if inhaled.
Skin	May cause irritation.
Eye	May cause eye irritation.
Ingestion	May be harmful if swallowed.
Acute oral toxicity	LD50 (rat) > 2,000 mg/kg
Acute inhalation toxicity	LC50 (rat) > 1.877 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. Highest attainable concentration.
Acute dermal toxicity	LD50 (rat) > 2,000 mg/kg
Skin irritation	No skin irritation (rabbit)
Eye irritation	No eye irritation (rabbit)
Sensitisation	Non-sensitizing. (mouse)
Chronic toxicity	Penflufen did not cause specific target organ toxicity in experimental animal studies.

Assessment Mutagenicity

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

Assessment Carcinogenicity

Penflufen caused at high dose levels an increased incidence of tumours in the following organ(s): hematopoietic system, brain, ovaries.

Assessment toxicity to reproduction

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

Assessment developmental toxicity

Penflufen did not cause developmental toxicity in rats and rabbits.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects



Toxicity to fish	LC50 (Cyprinus carpio (Carp)) 0.103 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient penflufen.
Toxicity to fish	LC50 (Cyprinus carpio (Carp)) 0.062 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna)) > 4.7 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient penflufen. No acute toxicity was observed at its limit of water solubility.
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna)) > 4.9 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 (Pseudokirchneriella subcapitata) > 5.1 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient penflufen. No acute toxicity was observed at its limit of water solubility.
Toxicity to aquatic plants	EC50 (Pseudokirchneriella subcapitata) > 24.8 mg/l Exposure time: 72 h
Toxicity to other organisms	LC50 (Colinus virginianus (Bobwhite quail)) > 456 mg/kg
Toxicity to other organisms	LC50 (Colinus virginianus (Bobwhite quail)) > 4,000 mg/kg The value mentioned relates to the active ingredient penflufen.
Toxicity to other organisms	LD50 (Apis mellifera (bees)) > 108.2 µg/bee The value mentioned relates to the active ingredient penflufen.
Toxicity to other organisms	LC50 (Eisenia fetida (earthworms)) > 1,000 mg/kg Exposure time: 14 d The value mentioned relates to the active ingredient penflufen.
Biodegradability	no data available
Stability in soil	In various soils in Laboratory trial: DT50 177 - 432 d. aerobic The value mentioned relates to the active ingredient penflufen. In Soil in Field trial: DT50 2 - 340 d. aerobic The value mentioned relates to the active ingredient penflufen. In Soil : DT50 866 d. anaerobic The value mentioned relates to the active ingredient penflufen.
Bioaccumulation	no data available
Additional Environmental Information	no data available

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.

SECTION 14. TRANSPORT INFORMATION

ADG

UN number	3082
Class	9
Subsidiary Risk	None
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PENFLUFEN SOLUTION)
Hazchem Code	•3Z

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

IMDG

UN number	3082
Class	9
Subsidiary Risk	None
Packaging group	III
EmS	F-A , S-F
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PENFLUFEN SOLUTION)

IATA

UN number	3082
Class	9
Subsidiary Risk	None
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PENFLUFEN SOLUTION)

SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994
Australian Pesticides and Veterinary Medicines Authority approval number: 64744
See also Section 2.

SECTION 16. OTHER INFORMATION

Trademark information EverGol® 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.

Further details on the Occupational Exposure Standards mentioned in Section 8:

CEILING: Ceiling Limit Value

OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

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.

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.

SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.

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.

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

END OF SDS