MATERIAL SAFETY DATA SHEET

Revision date: August 2014

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY/ UNDERTAKING

Product Name	BANROT 400WP
Recommended Use	Soil Fungicide
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (CONTAINS ETRIDIAZOLE)
Supplier	Everris Australia Pty Ltd, 211/33 Lexington Drive, Bella Vista, NSW 2153, Australia. Telephone: +61 (0)2 8801 3300
Australian Business Number	31 003 123 162
Emergency Telephone	Australia: (02) 8014 4558 New Zealand: (09) 9929 1483

2. HAZARDS IDENTIFICATION

Australia

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Classified as not Dangerous goods for transport by road or rail (ADG Code 7). Exempt from classification as a Dangerous Good as per ADG7, SP no. AU01. For bulk shipments as Class 9, use UN 3077, Hazchem code 2Z.

New Zealand

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Classified as Dangerous Goods for transport, according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land.

GHS Classification:
6.1E (oral), 6.1E (inhalation), 6.1E (dermal), 6.5B, 6.6B, 6.7B, 9.1A, 9.2B

Signal Word:
GHS: Warning, Poisons Standard 2013: Caution.

Hazard Statements:
H303 May be harmful if swallowed.
H313 May be harmful in contact with skin.
H333 May be harmful if inhaled.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic environment with long lasting effects.
H422 Toxic to the soil environment.

Prevention:
P102 Keep out of reach of children.
P103 Read label before use.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P261 Avoid breathing dust
P280 Wear protective gloves and clothing.
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P281 Use personal protective equipment as required

Response:
P101 If medical advice is needed, have product container or label at hand.
P304+P312 IF INHALED: Call a POISON CENTRE or doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice.
P321 Specific treatment (see First Aid measures on label).
P363 Wash contaminated clothing before reuse.
P308+P313 IF exposed or concerned: Get medical advice.
P391 Collect spillage

Storage:
P405 Store locked up

Disposal:
P501 Dispose of according to instructions on the product label.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name	CAS	Proportion Ingredients
Thiophanate-methyl	23564-05-8	25 %
Etridiazole	2593-15-9	15 %
Ingredients determined not to be hazardous:		60 %

4. FIRST AID MEASURES

Inhalation Avoid breathing dust. If inhaled, remove from contaminated area and call a POISON CENTRE or doctor if you feel unwell. Apply artificial respiration if not breathing.

Ingestion May be harmful is swallowed. If swallowed, rinse mouth and call a POISON CENTRE or doctor if you feel unwell. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Skin	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice. Remove contaminated clothing and wash before reuse or discard. Contaminated work clothing should not be allowed out of the workplace.
Eye	If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.
First Aid Facilities	Normal wash-room facilities.
Advice to Doctor	Treat symptomatically.
Other information	For advice, contact a Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor (at once).

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use carbon dioxide, dry chemical, and foam or water mist.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes.
Special Protective Equipment for fire Fighters	Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA).
Hazchem Code	2Z

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, and then transfer material to a suitable container. Use absorbent paper dampened with water to pick up remaining material. Wash surfaces well, with soap and water. Seal all wastes in vapour tight labelled plastic containers for eventual disposal. Dispose of waste according to federal, Environmental Protection Authority and state regulations. Avoid release to the environment. If the spillage enters waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Read label before use. Do not handle until all safety precautions have been read and understood. Avoid generating and breathing dust. Wash hands thoroughly after handling. Wear protective gloves and clothing. Contaminated work clothing should not be allowed out of the workplace. Use personal protective equipment as specified on the label and in section 8 of this Safety Data Sheet.

Conditions for Safe Storage: Store locked up. Keep out of reach of children. Store in a cool, dry place. Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	The exposure standard for dust not otherwise specified is 10 mg/m³ (for inspirable dust) and 3 mg/m³ (for respirable dust). The limit applies to both Australia and New Zealand.
Biological Limit Values	No biological limit allocated.
Engineering Controls	Avoid breathing dusts. If dusts are produced local exhaust ventilation should be used.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection required and will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Eye Protection

Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Body Protection

Suitable work wear should be worn to protect personal clothing, e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Tan powder, solid
Odour	Not available
Melting Point	Not available
Boiling Point	Not applicable
Solubility in Water	Soluble
pH Value	Not available
Vapour Pressure	Not applicable
Vapour Density	Not applicable

Bulk density	640.74 kg/m^3
Flashpoint	Not applicable
Auto-Ignition Temperature	Not available
Flammable Limits-Lower	Not applicable
Flammable Limits-Upper	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use.
Conditions to Avoid	Heat, direct sunlight, open flames or other sources of ignition.
Incompatible Materials	Strong oxidising agents, alkalis and reducing agents. Strong acids.
Hazardous Decomposition Products	Thermal decomposition and combustion produce noxious fumes containing oxides of carbon. Contact with acids liberates toxic gas.
Hazardous polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50/oral: 3620 mg/kg bw
LD50/dermal: >5000 mg/kg bw, rabbit
LD50/inhalation: 5.77 mg/L in air

Inhalation	May be harmful if inhaled. Inhalation of product dusts will cause irritation of the nose, throat and respiratory system.
Ingestion	May be harmful if swallowed. Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Ingestion of large quantities may depress the central nervous system.
Skin	May be harmful in contact with skin. May cause an allergic skin reaction. May cause redness, itching and irritation. This product may cause sensitisation in some individuals.
Eye	Eye contact may cause mechanical irritation. May result in mild abrasion.
Mutagenicity	It is important to recognise that this material is classified as H341 Suspected of causing genetic defects. There is evidence from appropriate mutagenicity studies, of concern that human exposure may result in the development of heritable genetic damage, but this evidence is insufficient to classify the substance as 6.6A.
Carcinogenicity	It is important to recognise that this product is classified as H351 Suspected of causing cancer. That is, there is some evidence from appropriate animal studies that human exposure may result in the development of cancer, but this evidence is insufficient to classify the substance as 6.7A.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic to the aquatic environment with long lasting effects. Toxic to the soil environment.
Persistence/ Degradability	Inherently biodegradable. Non-persistent.
Mobility	Water contaminating
Bioaccumulative	Does not bioaccumulate
Potential Environ. Protection	Avoid contaminating waterways with product or empty container.

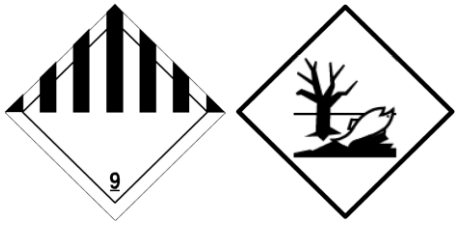
13. DISPOSAL CONSIDERATIONS

Disposal Considerations

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

14. TRANSPORT INFORMATION

UN Number: 3077



ADR/RID:

Australia: Classified as not Dangerous Goods for transport by road or rail. Exempt from classification as a Dangerous Good as per ADG7, SP no. AU01. For bulk shipments classified as Class 9, UN 3077, Hazchem code 2Z.

New Zealand: Classified as Dangerous Goods for the purpose of transport by road and rail. Refer to relevant regulations for storage and transport requirements.

Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ETRIDIAZOLE).
Class:	9
Packing group:	III

IMDG/IMO: Classified as Dangerous Goods for the purpose of transport by sea. Refer to relevant regulations for storage and transport requirements.

Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ETRIDIAZOLE).
Class:	9
Packing group:	III

ICAO: Classified as Dangerous Goods for the purpose of transport by sea. Refer to relevant regulations for storage and transport requirements.

Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ETRIDIAZOLE).
Class:	9
Packing group:	III

General Information:
Hazchem code: 2Z

15. REGULATORY INFORMATION

Australia:	Classified as hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC). APVMA Approval Number: 52741
New Zealand:	Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Group Standard: HSNO Approval Number: HSR007632

Poisons Schedule: S5

16. OTHER INFORMATION

Date of preparation: Safety Data Sheet Created: August 2014.

MSDS Contact Person/Point: Everris Australia Pty Ltd. Suite 211, 33 Lexington Drive, Bella Vista Australia, Phone +61 (0)2 8801 3300.

Emergency Telephone: Australia: (02) 8014 4558
New Zealand: (09) 9929 1483

End of Safety Data Sheet