

## ROOTOX

**1 . Identification of the material and supplier**Names

Product name : ROOTOX  
ADG : Not regulated.  
Supplier : ECOLAB PTY LTD (A.B.N. 59 000 449 990)  
6 Hudson Ave, Castle Hill NSW 2154  
Customer Service phone: 1 800 022 002  
Free Fax Number: 1 800 655 679  
  
Emergency telephone : 1 800 124 170  
number

Uses

Material uses : Drain Cleaner  
Date of issue : 29-August-2005

**2 . Hazards identification**

Statement of hazardous/dangerous nature : Classified as hazardous according to the criteria of NOHSC and not classified as dangerous goods according to the ADG Code.  
Risk Phrases : R22 - Harmful if swallowed.  
R36/38 - Irritating to eyes and skin.  
Safety Phrases : S24/25- Avoid contact with skin and eyes.  
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S46- If swallowed, seek medical advice immediately and show this container or label.

**3 . Composition/information on ingredients**

Ingredient name	CAS number	Concentration
Copper sulphate pentahydrate	7758-99-8	>60

Other ingredients, determined not to be hazardous according to NOHSC criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

**4 . First aid measures**First aid measures

Eye contact : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention.  
Skin Contact : Flush contaminated skin with a copious amount of water. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists.  
Inhalation : Remove to fresh air. Obtain medical attention if symptoms occur.  
Ingestion : Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26). Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.  
Notes to physician : No specific treatment. Treat symptomatically.

**5 . Fire-fighting measures**

Extinguishing media : Use an extinguishing agent suitable for surrounding fires.  
Fire/explosion hazards : No specific hazard.  
Special protective equipment for fire-fighters : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# ROOTOX

Hazardous Decomposition Products : sulphur oxides (SO<sub>2</sub>, SO<sub>3</sub>, etc.)

## 6. Accidental release measures

- Personal Precautions : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up : If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling : Avoid contact of spilled material and runoff with soil and surface waterways. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage : Store in a well-ventilated dry place. Protect from moisture.  
Keep away from incompatibles such as strong alkalis.

## 8. Exposure controls/personal protection

### Occupational exposure limits

Ingredient name  
copper

### Exposure limits

NOHSC (Australia, 7/2003).

TWA: 1 mg/m<sup>3</sup> 8 hour(s). Form: Dusts and Mists

TWA: 0.2 mg/m<sup>3</sup> 8 hour(s). Form: Fume

- Engineering measures : None required; however, use of adequate ventilation is good industrial practice.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

- Eyes : No special protection is required.
- Hands : Recommended: PVC gloves.
- Respiratory : A respirator is not needed under normal and intended conditions of product use.
- Skin : No special protective clothing is required.

## 9. Physical and chemical properties

- Physical state : Solid. (Cast Solid)
- Colour : Light Blue.
- Odour : Odourless.
- Boiling point : >100 °C
- Melting point : Not available.
- Vapour pressure : Not available.
- Relative density : 2.28 g/cm<sup>3</sup> (20 °C)
- Flash point : Product does not support combustion.
- Vapour density : Not available.
- pH : 4.2 (1%)
- Solubility : Soluble in hot water.  
Partially soluble in cold water.

## 10 . Stability and reactivity

Stability : The product is stable under normal ambient conditions of temperature and pressure.  
 Conditions to Avoid : Moisture  
 Materials to avoid : Strong alkalis  
 Hazardous Decomposition Products : sulphur oxides (SO<sub>2</sub>, SO<sub>3</sub>, etc.)  
 Hazardous Reactions : No hazardous reactions expected.

## 11 . Toxicological information

### Potential acute health effects

Inhalation : No known significant effects or critical hazards.  
 Ingestion : Harmful if swallowed.  
 Skin Contact : Moderately irritating to the skin.  
 Eye contact : Moderately irritating to eyes.

### Potential chronic health effects

Carcinogenicity : No known significant effects or critical hazards.  
 Mutagenicity : No known significant effects or critical hazards.  
 Reproductive toxicity : No known significant effects or critical hazards.

## 12 . Ecological information

### Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Copper sulphate	Daphnia pulex (EC50)	48 hour(s)	0.0034 mg/l
	Daphnia magna (EC50)	48 hour(s)	0.0065 mg/l
	Daphnia magna (EC50)	48 hour(s)	0.0105 mg/l
	Cyprinus carpio (LC50)	96 hour(s)	0.0015 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.002 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.0028 mg/l

Persistence/degradability : Not available.  
 Mobility : Not available.  
 Other adverse effects : Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

## 13 . Disposal considerations

Methods of disposal : Do not reuse product container. The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

## 14 . Transport information

Regulation	UN number	Proper shipping name	Class	Packing group	Additional Information
ADG	-	Not regulated.	-	-	-
IMDG	-	Not regulated.	-	-	-

## 15 . Regulatory information

Australian Inventory Status : All substances are listed on AICS or exempt.

AU Classification : Xn - Harmful  
 Xi - Irritant  
 R22- Harmful if swallowed.  
 R36/38- Irritating to eyes and skin.

Standard for the Uniform Scheduling of Drugs and Poisons  
 Schedule: S6.

### Control of Scheduled Carcinogenic Substances

<u>Ingredient name</u>	<u>Schedule</u>
No listed substance	

Product Registration Status : APVMA

## 16 . Other information

Prepared by : Regulatory Affairs  
 Date of previous issue : 12-September-2002  
 Change Made : New format.  
 References : -ADG Code - Australian Transport of Dangerous Goods  
 -Adopted National Exposure Standard for Atmospheric Contaminants in the Occupational Environment  
 -Approved Criteria for Classifying Hazardous Substances  
 -List of Designated Hazardous Substances  
 -National Code of Practice for the Labelling of Workplace Substances  
 -National Code of Practice for the Preparation of Material Safety Data Sheets  
 -National Model Regulations for the Control of Scheduled Carcinogenic Substances  
 -National Model Regulations for the Control of Workplace Hazardous Substances  
 -Standard for the Uniform Scheduling of Drugs and Poisons

### Disclaimer

*The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.*