

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:

### **ATOMIC**

SUPPLIER NAME: Zelam Limited  
MANUFACTURER: Zelam Limited  
SUPPLIER ADDRESS: Hudson Road, Bell Block  
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CHEMICAL FAMILY: Azole, benzimidazole USE: Systemic fungicide

## 2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Carbendazim	10605-21-7	< 50 %	
Epoxiconazole	106325-08-0	< 15%	
Inerts		Balance	

## 3. HAZARDS IDENTIFICATION:

Harmful - may cause skin sensitisation from prolonged skin contact. Avoid contact with skin.  
Toxic - may cause genetic defects.  
Harmful - suspected cause cancer.  
Toxic - may cause reproductive/developmental damage from repeated oral exposure.  
Harmful - may cause organ damage from repeated oral exposure at high doses.  
Very toxic to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.  
Toxic to the soil environment.  
Refer to Section 15 for ERMA Requirements.

## 4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Get medical attention if irritation persists.  
SKIN CONTACT: Immediately flush with plenty of water while removing contaminated clothing. DO NOT scrub the skin. Continue for at least 15 minutes. Wash clothing before reuse.  
INHALATION: If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention.  
INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.  
NOTES TO DOCTOR: No specific antidote. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not Applicable. HAZCHEM Code: 2X  
FLAMMABLE LIMITS: Not Applicable.  
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.  
THERMAL DECOMPOSITION PRODUCTS: None.  
SPECIAL FIRE FIGHTING METHODS: Addition of water may cause excessive foaming. Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated run-off to enter drains.  
UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

## 6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment - protective overalls and gloves and safety glasses. Spills are slippery and should be cleaned up immediately. Clear area of unnecessary personnel.  
Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb.  
Warning this substance is very toxic to aquatic organisms. Avoid contamination of any water supply with this substance or empty container. This substance is toxic to the soil environment, do not allow to spill into soil.

## 7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.  
Store in original container, tightly closed away from food, food related materials, animal feedstuffs, seed or fertilizer.  
Wash protective clothing daily after work.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No exposure limits (TEL, or EEL's) have been specifically assigned for this product.  
WES set for Propane-1,2-diol [CAS 57-55-6] vapour & particulates: 150 ppm - 474 mg/m<sup>3</sup>.  
EYE PROTECTION: Chemical goggles or face shield where splash may occur.  
RESPIRATORY PROTECTION: Avoid breathing in vapours or aerosol from the product. Use an appropriate respirator if exposed to the vapours or aerosol from the product. For short term exposure to mists and aerosols use a mask and filter eg. Filter A-P2 or a filter canister for organic vapours.  
PROTECTIVE CLOTHING: Chemical resistant gloves should be worn at all times. Protective clothing [waterproof gloves, overalls and boots] should be worn. Avoid skin contact.  
Wash protective clothing daily after work.  
VENTILATION: General (mechanical) room ventilation is considered satisfactory.  
HYGIENE PRECAUTIONS: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection. If skin contact or contamination of clothing is likely, protective clothing should be worn.

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: White liquid.  
BOILING POINT: 100°C. pH: 5.0 - 6.5  
DENSITY: 1.16 SETTING POINT: Not Available.  
DECOMPOSITION TEMP: Not Available. AUTOIGNITION TEMP: Not Applicable.  
FLASHPOINT: Not Applicable. VAPOUR DENSITY: Denser than air  
EXPLOSION PROPERTIES: Not Applicable. VAPOUR PRESSURE: Epoxiconazole < 0.01mPa 20°C.  
SOLUBILITY: Miscible in water.  
OTHER DATA: Vapour Pressure: Carbendazim 0.15 mPa 25°C.  
OCTANOL / WATER PARTITION COEFFICIENT: Kow LogP: Carbendazim - 1.38: Epoxiconazole - 3.44

### 10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None.  
MATERIALS TO AVOID: None.  
HAZARDOUS DECOMPOSITION PRODUCTS: None.

### 11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: rat LD50 > 5000 mg/kg. [By calculation]  
ACUTE DERMAL: rat LD50 >10000 mg/kg. [By calculation]  
ACUTE INHALATION: Not Applicable.  
OTHER TOXICITY INFORMATION: 6.5B; Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact.  
6.6A; Toxic - may cause genetic defects.  
6.7B; Harmful - suspected of causing cancer.  
6.8A; Toxic - may cause reproductive/development damage from repeated oral exposure.  
6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.

### 12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Very toxic to fish. LC50 (96 hr) : 3.2 mg/L  
Soil Toxicity: Harmful to worms.  
Terrestrial Vertebrates - Birds: Not toxic to birds  
Terrestrial Invertebrates - Bees: Not toxic to bees.

9.1A; Very Toxic to fish with long lasting effects. Avoid contamination of any water supply with this product or empty container.  
9.2B; Toxic to the soil environment

### 13. DISPOSAL CONSIDERATIONS:

Dispose of this product only by using according to the label. Triple rinse container and add rinsate to spray tank. Crush or puncture cleaned, empty containers and dispose of container at an approved landfill or Agrecovery Depot. Avoid contamination of any water supply or stream with this product or empty container.

### 14. TRANSPORT INFORMATION:

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S UN Hazard Class: 9  
UN Number: 3082 Packing Group: III  
Hazchem Code: 2X  
Additional Information: Contains Carbendazim & Epoxiconazole

Do not carry more than 1 L of this product on a passenger service vehicle.

### 15. REGULATORY INFORMATION:

APPROVED HANDLER: The product must be under the personal control of an approved handler when:

- the product is applied in a wide dispersive manner; or
- used by a commercial contractor.

However, it may be handled by a person who is not an approved handler if:

- an approved handler is present at the facility where the substance is being handled; and
- the approved handler has provided guidance to the person in respect to the handling of the product; and
- the approved handler is available at all times to provide assistance if necessary.

Atomic shall NOT be applied directly onto or into water.

The maximum application rate of Atomic is 0.6 L/ha with a frequency of no more than two [2] applications per season.

RECORD KEEPING; A written record of each application or discharge must be kept where members of the public may lawfully be present or the substance is likely to enter the air or water and leave the area. The information must be kept for a minimum of three years.

ERMA Approval Code: HSR100502  
ACVM Pesticide Number: P07685  
See the ERMA Website for more details: www.ermanz.govt.nz

### 16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.