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

PRODUCT NAME: **PINNACLE**
 MANUFACTURER: Lonza NZ Ltd
 SUPPLIER NAME: Lonza NZ Ltd
 SUPPLIER ADDRESS: 13-15 Hudson Rd, Bell Block, New Plymouth, New Zealand
 SUPPLIER PHONE: +64 6 7559234 SUPPLIER FAX: +64 6 7551174
 EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PHONE: +64 4 917 9888
 CHEMICAL FAMILY: Phenylpyridimine USE: Fungicide

2. HAZARDS IDENTIFICATION:

6.1C; Toxic - may be fatal if swallowed, inhaled or absorbed through the skin.
 6.3B; Harmful - may cause skin irritation. Avoid contact with skin.
 6.4A; Harmful - may cause eye irritation. Avoid contact with eyes.
 6.5B; Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact.
 6.8B; Harmful - may cause reproductive/development damage from repeated oral exposure.
 6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.
 9.1A; Very toxic to fish/aquatic organisms with long-lasting effects.
 Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
- Water		45 %	
- Fluazinam	79622-59-6	42%	Class 6, 9.
- Inerts		Balance	

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek 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 and 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: Oxides of Carbon and Nitrogen.
 SPECIAL FIRE FIGHTING METHODS: Addition of water may cause excessive foaming. Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff to enter drains.
 UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately. 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.

7. HANDLING AND STORAGE:

Toxic - Keep out of reach of children.
 Store in original container, tightly closed under lock and key, away from food stuffs.
 Chemical resistant gloves and eye protection should be worn when handling this product.
 Wear other personal protective equipment appropriate to the situation when handling product. 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/m³.
 EYE PROTECTION: Chemical goggles or face shield where splash may occur.
 RESPIRATORY PROTECTION: Not normally required. Exceptions: in the case of fire or during the formation of mists or aerosols.
 PROTECTIVE CLOTHING: When handling wear waterproof gloves, overalls and boots.
 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Yellow Liquid.		
BOILING POINT:	Not available	pH:	5.0 - 6.0
DENSITY:	1.225	SETTING POINT:	Not available
DECOMPOSITION TEMP:	Not available	AUTOIGNITION TEMP:	Not applicable
FLASHPOINT:	Not applicable	VAPOUR DENSITY:	Not available
EXPLOSION PROPERTIES:	Not applicable	VAPOUR PRESSURE:	Not available
SOLUBILITY:	Miscible in water		
OTHER DATA:	None		
OCTANOL / WATER PARTITION COEFFICIENT:	Not available		

10. STABILITY AND REACTIVITY:

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

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 Rats: >5000 mg/kg
ACUTE DERMAL:	LD50 Rats: >4000 mg/Kg
ACUTE INHALATION:	LC50 Rats: 1.10 mg/L, by calculation.

OTHER TOXICITY INFORMATION:

May be fatal if swallowed, inhaled or absorbed through the skin.
May cause skin and eye irritation. Avoid contact with skin or eyes.
May cause skin sensitisation from prolonged skin contact. Avoid skin contact.
May cause reproductive/development damage from repeated oral exposure and may cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 Fish: 0.0854 mg/L 96Hr
Soil Toxicity: Unknown.
Terrestrial Vertebrates - Birds: LD50 Avian (bobwhite quail): 796 mg/Kg .
Terrestrial Invertebrates - Bees: Unknown.

Very toxic to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.

13. DISPOSAL CONSIDERATIONS:

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved landfill.
Dispose of product only by using according to this label, or at an approved disposal facility.
Avoid contamination of any water supply or stream with product or empty container.

14. TRANSPORT INFORMATION:

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Fluazinam)		
UN Number:	3082	UN Hazard Class:	9
Packing Group:	III	Hazchem Code:	2X
Additional Information:			

15. REGULATORY INFORMATION:

APPROVED HANDLER. This product must be stored under the personal control of an approved handler at all times or it must be locked up. However if an approved handler is present at the facility where the substance is being handled, or the approved handler has provided guidance to the person in respect to the handling of the product and is present at all times a non approved handler may handle the product.

Pinnacle shall NOT be applied onto or into water.

TRACKED SUBSTANCE: This is a tracked substance, the location and movement of this substance must be recorded at each stage of the products life cycle by the approved handler. These records must be kept for at least three years. The person in charge must ensure all approved handler and appropriate hazard classifications are met on transfer of this product.

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 supply and leave the area. The information must be kept for a minimum of three years.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR000500 See <www.epa.govt.nz> for controls.
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P007697 See <www.nzfsa.govt.nz> for registration conditions.

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.