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

PRODUCT NAME: **SNIPER**  
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: Benzoylurea USE: Insecticide

**2. HAZARDS IDENTIFICATION:**

6.4A: Harmful - may cause eye irritation. Avoid contact with eyes.  
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	7732-18-5	<75%	
Diflubenzuron	35367-38-5	<25%	Class 6,9.
Inerts		<8%	

**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 ill-effects occur, move the victim to fresh air.  
INGESTION: If swallowed, rinse mouth with water. DO NOT induce vomiting. Seek medical attention.  
NOTES TO DOCTOR: Treat symptomatically.

**5. FIRE FIGHTING MEASURES:**

FLASHPOINT: Not applicable. HAZCHEM CODE: 2X  
FLAMMABLE LIMITS: Not applicable.  
EXTINGUISHING MEDIA: Water fog, dry chemical or Carbon dioxide.  
THERMAL DECOMPOSITION PRODUCTS: Oxides of nitrogen, and carbon. Acidic vapours of hydrogen chloride and hydrogen fluoride.  
SPECIAL FIRE FIGHTING METHODS: Protect against inhalation of combustion products.  
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. Minimise runoff into waterways or drains. If accidental contamination of any waterways occurs the appropriate authorities including the relevant iwi authorities in the region should be notified. This notification should include the measure taken in response to this spill.

**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. Keep from extreme heat.  
Wear personal protective equipment appropriate to the situation when handling product. Wash protective clothing daily after work.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION:**

EXPOSURE LIMITS: Exposure Limits for Diflubenzuron: ADE = 0.02 mg/kg; PDE food = 0.01mg/kg bw/day;  
PDE drinking water = 0,004 mg/kg bw/day; PDE inhalation = 0.002 mg/kg bw/day;  
PDE dermal = 0.002 mg/kg bw/day; TEL air = 0.003 mg/m<sup>3</sup>  
Environmental Exposure Limits [EEL] set: EELmarine water; 0.0002 mg/L [Diflubenzuron]  
EELfresh water; 0.00037 mg/L [Diflubenzuron]

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: Wear impervious outer clothing - Vinyl apron, gloves and gumboots.

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:	Pale cream suspension		
BOILING POINT:	100°C	pH:	6 - 7.5
DENSITY:	1.10	SETTING POINT:	< 0°C
DECOMPOSITION TEMP:	Not available.	AUTOIGNITION TEMP:	Not applicable.
FLASHPOINT:	Not applicable.	VAPOUR DENSITY:	Not applicable.
EXPLOSION PROPERTIES:	Not applicable.	VAPOUR PRESSURE:	0.00012 mPa (25°C) diflubenzuron
SOLUBILITY:	0.08 mg/L water		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Kow log P=3.89		

## 10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Stable at ambient pressures and temperatures. Avoid prolonged storage in direct sunlight.  
 MATERIALS TO AVOID: Oxidising agents, strong acids and bases.  
 HAZARDOUS DECOMPOSITION: Oxides of carbon and nitrogen, HF and HCl under fire conditons.

## 11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 rats >4,600 mg/Kg (diflubenzuron)  
 ACUTE DERMAL: Rabbits LD50 >2000 mg/Kg (diflubenzuron)  
 ACUTE INHALATION: LC50 rats >2.88 mg/L (diflubenzuron)  
 OTHER TOXICITY INFORMATION:  
 Diflubenzuron has a low oral toxicity, is not considered a skin or eye irritant and no teratogenic, mutagenic or oncogenic effects have been observed.

## 12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Very toxic to fish. LD50 (96 hr) for Rainbow trout: 50 mg/L.  
 Soil Toxicity: Not toxic to worms.  
 Terrestrial Vertebrates - Birds: Not toxic to birds.  
 Terrestrial Invertebrates - Bees: Not toxic to bees.

Very Toxic to fish/aquatic organisms with long lasting effects. Avoid contamination of any water supply with this 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 (Diflubenzuron)  
 UN Number: 3082 UN Hazard Class: 9  
 Packing Group: III Hazchem Code: 2X  
 Additional Information: Do not carry more than 1 L of this product on a passenger service vehicle

## 15. REGULATORY INFORMATION:

Sniper shall only be used for application to pasture and in commercial mushroom operations.

This product shall NOT be applied onto or into water.

Record Keeping.

Records of this product must be made if more than 3 Kg is applied within 24 hours in a place where the substance is likely to enter the air or water and leave the place. The records must be kept for at least three years.

This product DOES NOT have Tracking Requirements and DOES NOT require an Approved Handler.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR000953 See <www.epa.govt.nz> for controls.  
 Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P007270 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.