

EXPOSURE LIMITS:	No exposure limits (WES, TEL, or EEL's) have been specifically assigned for this product.
EYE PROTECTION:	Chemical goggles or face shield where splash may occur.
<b>RESPIRATORY PROTECTION:</b>	Not normally required. Exceptions: during the formation of mists or aerosols or in the case of fire.
PROTECTIVE CLOTHING:	If skin contact or contamination of clothing is likely, protective clothing [impervious gloves, waterproof hat, coat, trousers and boots] should be worn. Wash protective clothing daily after work. 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.

# Lonza

# Safety Data Sheet

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### 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	White Suspension	n Concentrate
BOILING POINT:	Not available	
DENSITY:	1.15	
DECOMPOSITION TEMP:	Not available	
FLASHPOINT:	Not applicable	
EXPLOSION PROPERTIES:	Not applicable	
SOLUBILITY:	Miscible in water	
OTHER DATA:		
OCTANOL / WATER PARTITION C	OEFFICIENT:	Not available

5 to 6.5 pH: SETTING POINT: Not available AUTOIGNITION TEMP: Not applicable VAPOUR DENSITY: Not available VAPOUR PRESSURE: Not available

None

# **10. STABILITY AND REACTIVITY:**

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

#### **11. TOXICOLOGICAL INFORMATION:**

ACUTE ORAL: LD50 Rats: > 5000 mg/Kg (by calculation) ACUTE DERMAL: LD50 Rats: > 5000 mg/Kg (by calculation) ACUTE INHALATION: LD50 Rats: > 5 mg/Kg (by calculation) OTHER TOXICITY INFORMATION:

Fluazinam: Low oral toxicity (LD50 Rats: >4100 mg/kg bw). Inhaled dust of the technical is toxic (LC50(4h) Rats: 0.463 mg/kg bw). Potential liver toxicant and skin sensitiser. May cause allergic contact dermatitis and occupational asthma

Pyrimethanil: Low oral toxicity (LD50 Rats: >4150 mg/kg bw). Considered non-irritant to skin & eyes, & non-sensitising to skin. In animals is rapidly absorbed, extensively metabolised & rapidly excreted in all species examined. No evidence of accumulation even on repeated dosing.

#### **12. ECOLOGICAL INFORMATION:**

Aquatic Toxicity:	Toxic to fish
Soil Toxicity:	Not toxic to earthworms
Terrestrial Vertebrates - Bi	ds: Not toxic to birds
Terrestrial Invertebrates - E	Bees: Not toxic to bees

Fluazinam Tech:Birds Acute oral LD50 for bobwhite guail 1782, mallard ducks 4190 mg/kg. Fish LC50 (96 h) for rainbow trout 0.036 mg/l. Daphnia LC50 (48 h) 0.22 mg/l. Algae EC50 (96 h) for Selenastrum capricornutum 0.16 mg/l. Other aquatic spp. EC50 for oysters 0.0047, for mysid shrimp 0.039 ppm. Bees LD50 (oral) >100 mg/bee; (contact) >200 mg/bee. Worms LC50 (28 d) >1000 mg/kg.

Pyrimethanil tech:Oral Acute oral LD50 for rats 4150-5971, mice 4665-5359 mg/kg. Skin and eye Acute percutaneous LD50 for rats >5000 mg/kg. Non-irritating to skin and eyes (rabbits), and not a skin sensitiser (guinea pigs). Inhalation LC50 (4 h) for rats >>1.98 mg/l. NOEL (2 y) for rats 20 mg/kg b.w. daily. ADI 0.17-0.2 mg/kg. Other Negative in mutagenicity tests, and non-teratogenic in rats and rabbits.

#### **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 (Pyrimethanil & Fluazinam) **UN Number:** 3082 UN Hazard Class: 9 Packing Group: ш Hazchem Code: 2X Additional Information: Do not carry more than 1 litre of this product on a passenger service vehicle.

#### **15. REGULATORY INFORMATION:**

This product DOES NOT have Approved Handler, Tracking, or Record Keeping Requirements.

This product shall only be used for the purpose of fungal disease management on grapes. it is an offence to use this product on animals.

Apex must NOT be applied onto or into water.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR100838 See <www.epa.govt.nz> for controls. Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P009012 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.