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

PRODUCT NAME: **SPEARTEK**
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: Phenylamide (alcyalanine type) USE: Systemic fungicide

2. HAZARDS IDENTIFICATION:

6.1E; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
6.3A; 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.
6.8A; Toxic - may cause reproductive/development damage from repeated oral exposure.
6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.
9.1C; Harmful 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:
- Methyl Pyrrolidone	872-50-4	<45 %	Class 6, 9.
- Metalaxyl	57837-19-1	<25 %	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 occurs or persists.
SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.
INHALATION: If ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.
INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.
NOTES TO DOCTOR: No specific antidote. Antihistamines or steroid creams have been effective in the treatment of skin.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: >61° C (PMCC) HAZCHEM CODE: 2 [Z]
FLAMMABLE LIMITS:
EXTINGUISHING MEDIA: Water spray (fog), foam.
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 runoff to enter drains.
UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Extinguish any sources of ignition. 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 run-off into waterways or drains.

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.
Chemical resistant gloves and eye protection should be worn when handling this product. Avoid skin contact.
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 (WES, TEL, or EELs) have been specifically assigned for this product.
EYE PROTECTION: Avoid contact with eyes. Wear a face shield or full chemical workers goggles when there is a risk of a splash.
RESPIRATORY PROTECTION: Not normally required. Exceptions: during the formation of mists or aerosols or in the case of fire.
PROTECTIVE CLOTHING: Avoid skin contact. When handling wear waterproof gloves, overalls and boots. Wash protective clothing daily after work.
VENTILATION: General (mechanical) room ventilation is considered satisfactory.

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Emulsifiable concentrate.		
BOILING POINT:	>150°C.	pH:	3.4 - 5.0.
DENSITY:	1.045.	SETTING POINT:	Not available.
DECOMPOSITION TEMP:	Not available.	AUTOIGNITION TEMP:	Not applicable.
FLASHPOINT:	>61°C (PMCC)	VAPOUR DENSITY:	Heavier than air.
EXPLOSION PROPERTIES:	Not applicable.	VAPOUR PRESSURE:	0.32 mbar @ 20°C.
SOLUBILITY:	Miscible in water.		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not available.		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None.
 MATERIALS TO AVOID: Strong oxidising agents, acids.
 HAZARDOUS DECOMPOSITION: None.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 rat 1840 mg/Kg. (By calculation)
 ACUTE DERMAL: Metalaxyl LD50 rat >3100 mg/Kg. (By calculation)
 ACUTE INHALATION:
 OTHER TOXICITY INFORMATION:
 May be harmful if swallowed, inhaled or absorbed through the skin.
 May cause skin irritation and eye . 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.
 May cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Harmful to fish. LC50 (96 hr) for Rainbow trout: > 100 mg/L.
 Soil Toxicity: Not toxic to soil environment.
 Terrestrial Vertebrates - Birds: Not toxic to birds.
 Terrestrial Invertebrates - Bees: Not toxic to bees.

Harmful 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: Not Classified as Dangerous Goods for Transport (Metalaxyl and Methyl Pyrrolidone)
 UN Number: N/A UN Hazard Class: N/A
 Packing Group: N/A Hazchem Code: 2 [Z]
 Additional Information: Do not carry more than 0.1 L of this product on a passenger service vehicle.

15. REGULATORY INFORMATION:

This product DOES NOT have Approved Handler or Tracking Requirements.

Speartek shall NOT be applied onto or into water.

RECORD KEEPING:

A written record of each application or discharge must be kept where -
 a) members of the public may lawfully be present; or
 b) the substance is likely to enter the air or water supply and leave the area where it is under control.
 The information must be kept for a minimum of three [3] years.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR000664. See <www.epa.govt.nz> for controls.
 Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P005413. 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 products' properties.