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

PRODUCT NAME: **PROTEK**
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: Benzimidazole USE: Systemic fungicide

2. HAZARDS IDENTIFICATION:

6.5B: Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact
6.6A: Toxic - may cause genetic defects
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.
9.1A: Very toxic aquatic organisms with long-lasting effects.
9.2B: Toxic to the soil environment
Refer to Section 15 for EPA NZ requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Carbendazim	10605-21-7	<50 %	Class 6, 9.
Inerts		<20 %	
Surfactants (proprietary)		<20 %	
Water		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: 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. If 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. Treat symptomatically. Antihistamines or steroid creams have been effective in treatment of skin.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable. HAZCHEM CODE: 2X
FLAMMABLE LIMITS: No data
EXTINGUISHING MEDIA: Water spray (fog), foam.
THERMAL DECOMPOSITION PRODUCTS: Includes 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. Minimise runoff into waterways or drains.
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:

Harmful - Keep out of reach of children.
Store in original container, tightly closed, away from food, food related materials, animal feedstuffs, seed or fertilizer.
Wear eye protection. Impervious gloves should be worn at all times.
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: Chemical goggles or face shield where splash may occur.
RESPIRATORY PROTECTION: Air respirator with organic vapour canister or self contained breathing apparatus when exposed to vapours from heated material.
PROTECTIVE CLOTHING: PVC-coated gloves. Avoid skin contact. Wear other protective clothing such as overalls, hat and boots when using. 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: Off-white suspension concentrate.
 BOILING POINT: Not available. pH: 7.5.
 DENSITY: 1.180. 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:
 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: Low single dose toxicity. LD50 (male rats) 15 000 mg/kg (Carbendazim).
 ACUTE DERMAL: LD50 (dermal) >10 000 mg/kg (rabbits) (Carbendazim). Not likely to be absorbed in toxic amounts.
 ACUTE INHALATION: May cause irritation to the respiratory tract.
 OTHER TOXICITY INFORMATION:
 May cause skin sensitisation from prolonged skin contact. Avoid skin contact.
 May cause genetic defects. May cause reproductive/development damage from repeated oral exposure and may cause organ damage from repeated oral exposure at high doses.
 In male rats, following a single oral administration of 3 mg/kgbw (Carbendazim), 66% was eliminated from the urine within 6 hours.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96hr) Rainbow trout: 0.83 mg/L (Carbendazim)
 Aquatic Toxicity: LC50 (48hr) Daphnia 0.13 - 0.22 mg/L (Carbendazim)
 Soil Toxicity: LC50 (4w) Worms 6 mg/kg soil. (Carbendazim)
 Terrestrial Vertebrates - Birds: Not toxic to birds.
 Terrestrial Invertebrates: Bees: LD50 (Contact) >50 µg/bee (Carbendazim)

Very toxic to aquatic organisms. Avoid contamination of any water supply with this product or empty container.
 Toxic to the soil environment [earthworms].
 Carbendazim decomposes in the environment, DT50 - 6 to 12 mth bare soil, - 3 to 6 mth turf, - 2 to 25 mth in water under aerobic and anaerobic conditions.

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 a 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 (Carbendazim)
 UN Number: 3082 UN Hazard Class: 9
 Packing Group: III Hazchem Code: 2X
 Additional Information: Do not carry more than 1 litre 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:
 a) the product is applied in a wide dispersive manner; or
 b) 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.

This product 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: HSR000464 See <www.epa.govt.nz> for controls.
 Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P004876 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.