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

PRODUCT NAME: **LONZA PROCHLORAZ 450**
 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: Imidazole USE: Fungicide

2. HAZARDS IDENTIFICATION:

3.1D; Warning - combustible liquid.
 6.1E; Harmful - may be harmful 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.
 6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.
 9.1A; Very toxic to fish with long-lasting effects.
 9.3C; Harmful to terrestrial vertebrates [birds].
 Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

| COMMON NAME: | CAS NUMBER: | CONCENTRATION %: | HAZARD CLASSIFICATIONS: |
|------------------|-------------|------------------|-------------------------|
| Prochloraz | 67747-09-5 | 45 | Class 6, 9 |
| Aromatic Solvent | 64742-94-5 | >30 | Class 3, 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: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. DO NOT scrub skin. 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, DO NOT induce vomiting. Give nil by mouth. Take to hospital without delay.
 NOTES TO DOCTOR: Treat symptomatically. Solvent component aspirated into lungs may cause acute chemical pneumonitis. Antihistamines or steroid creams have been effective in treatment of skin.

5. FIRE FIGHTING MEASURES:

| | | | |
|------------------------------------|--|---------------|----|
| FLASHPOINT: | >61°C | HAZCHEM CODE: | 2X |
| FLAMMABLE LIMITS: | Not available | | |
| EXTINGUISHING MEDIA: | Dry chemical, water spray (fog), foam or carbon dioxide. | | |
| THERMAL DECOMPOSITION PRODUCTS: | Vapours may be toxic. Ultimate decomposition products of combustion may include oxides of nitrogen carbon and hydrogen chloride. | | |
| SPECIAL FIRE FIGHTING METHODS | Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated run-off to enter drains. | | |
| UNUSUAL FIRE OR EXPLOSION HAZARDS: | Combustible liquid. | | |

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.
 Keep away from naked flame. Store in original container, tightly closed away from foodstuffs.
 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: General (mechanical) room ventilation is considered satisfactory. TLV-TWA 434 mg/m3 [Aromatic solvent].
 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 impervious gloves, overalls and boots.
 VENTILATION: Wash protective clothing daily after work.
 HYGIENE PRECAUTIONS: Transfer or mix with adequate mechanical ventilation.
 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: Amber to dark brown mobile liquid. | | | |
| BOILING POINT: | 184°C | pH: | Neutral |
| DENSITY: | 1.07 | SETTING POINT: | Not available |
| DECOMPOSITION TEMP: | Not available | AUTOIGNITION TEMP: | 450°C |
| FLASHPOINT: | >61°C | VAPOUR DENSITY: | Not available |
| EXPLOSION PROPERTIES: | Not available | VAPOUR PRESSURE: | 6.5 x10 ⁻⁵ at 25°C (active ingredient) |
| SOLUBILITY: | 55 ppm (perchloraz) | | |
| OTHER DATA: | None | | |
| OCTANOL / WATER PARTITION COEFFICIENT: | log Kow 4.38 | | |

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Naked flames
 MATERIALS TO AVOID: Strong oxidising agents.
 HAZARDOUS DECOMPOSITION: Thermal decomposition may release ammonia, carbon monoxide and carbon dioxide and oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: Oral rat LD 50 2,500 mg/kg.
 ACUTE DERMAL: Dermal LD50 rabbit >2000 mg/kg non sensitiser
 ACUTE INHALATION: Slightly toxic LC50 rats >5.85 mg/L of air
 OTHER TOXICITY INFORMATION:
 May be harmful if swallowed, inhaled or absorbed through the skin.
 May cause skin and eye irritation. Avoid contact with skin or eyes.
 May cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Very toxic to fish LC 50 (96 hr) for Rainbow trout : 1.5 mg/L.
 Soil Toxicity: Not toxic to worms.
 Terrestrial Vertebrates - Birds: Harmful to birds.
 Terrestrial Invertebrates - Bees: Bees Contact LC 50: >50µ/bee.

 Very Toxic to fish/aquatic organisms with long lasting effects. Avoid contamination of any water supply with this product or empty container.
 Harmful to terrestrial vertebrates [birds].

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 (Prochloraz) |
| UN Number: | 3082 |
| Packing Group: | III |
| Additional Information: | UN Hazard Class: 9 Hazchem Code: 2X |

15. REGULATORY INFORMATION:

APPROVED HANDLER: An approved handler is required when the substance is applied by a commercial contractor or directly onto or into water.
 The approved handler must have the product under personal control 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.

 RECORD KEEPING: A written record of use is required if 3 kg [/ X ml] or more of this product is used within 24 hours in a place where:
 a) public may lawfully be present; or
 b) the substance is likely to enter air or water supply and leave the place where it is under control.
 The information must be kept for a minimum of three [3] years.

This product DOES NOT have Tracking Requirements.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR000636. See <www.epa.govt.nz> for controls.
 Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P005945. 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.