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

PRODUCT NAME: **BARRACHLOR 720**
 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: Nitrile USE: Fungicide

2. HAZARDS IDENTIFICATION:

6.1B; Toxic - may be fatal if swallowed, inhaled or absorbed through the skin.
 6.5B; Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact.
 6.7B; Harmful - suspected of causing cancer.
 6.9A; Toxic - may cause organ (kidney) damage from repeated oral exposure at high doses.
 8.3A; Danger - this product is corrosive and may cause eye damage.
 9.1A; Very Toxic to fish with long lasting effects.
 9.2C; Harmful to the soil environment.
 9.3B; Toxic to terrestrial vertebrates [birds]
 Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Chlorothalonil	1897-45-6	< 70%	6.1B, 6.5B, 6.7B, 6.9A, 8.3A
Inerts		Balance	

4. FIRST - AID MEASURES:

EYE CONTACT: Hold eyelids open and immediately flush eyes with flowing water for at least 15 minutes. Get prompt medical attention.
 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 inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
 INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.
 NOTES TO DOCTOR: No specific antidote. The primary target organs affected are the kidneys, secondary effects are hepatotoxicity and metabolic/weight loss. Antihistamines or steroid cream have been effective in treatment of skin.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Non flammable. HAZCHEM CODE: 2X
 FLAMMABLE LIMITS: Not applicable.
 EXTINGUISHING MEDIA: Water spray (fog), foam.
 THERMAL DECOMPOSITION PRODUCTS: Include hydrogen chloride and oxides of carbon and nitrogen.
 SPECIAL FIRE FIGHTING METHODS: Vapours may be toxic. Self contained breathing apparatus required.
 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:

Toxic - Keep out of reach of children.
 Store in original container, tightly closed under lock and key, away from food stuffs.
 Chemical resistant gloves and eye protection should be worn when handling this product. 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: WES set for Propane-1,2-diol [CAS 57-55-6]; - 8h TWA (vapour & particulates): 150 ppm - 474 mg/m³. No TEL or EEL exposure limits have been specifically assigned for this product.
 EYE PROTECTION: Avoid contact with eyes. Wear a full eye protection when there is a risk of a splash.
 A SOURCE OF FRESH, CLEAN WATER FOR FLUSHING EYES MUST BE AVAILABLE IN THE TREATED AREA FOR SEVEN [7] DAYS FOLLOWING APPLICATION OF THE PRODUCT TO PLANTS.
 Workers must be informed, in a manner that they can understand, that residues in the treated area are highly irritating to their eyes, that they should take precautions to keep the residue out of their eyes [such as refraining from rubbing their eyes], and that if they do get residues in their eyes, they should immediately flush their eyes with fresh, clean water.
 The workers must also have instructions on how to operate an eyeflush container if a specialised eyewash facility has been provided.
 RESPIRATORY PROTECTION: For short term exposure to mists and aerosols use a mask and filter eg. Filter A-P2
 PROTECTIVE CLOTHING: Avoid skin contact. Chemical resistant gloves should be worn when handling this product. Wear protective clothing such as waterproof hat, coat and trousers (worn outside rubber 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 cream aqueous suspension concentrate.
 BOILING POINT: 100°C. pH: 7.0.
 DENSITY: 1.305. SETTING POINT: less than 0°C.
 DECOMPOSITION TEMP: Not available. AUTOIGNITION TEMP: Not available.
 FLASHPOINT: Not applicable. VAPOUR DENSITY: Heavier than air.
 EXPLOSION PROPERTIES: None. VAPOUR PRESSURE: 0.076 mPa 25°C chlorothalonil.
 SOLUBILITY: 0.81 mg/L water 25°C chlorothalonil.
 OTHER DATA:
 OCTANOL / WATER PARTITION COEFFICIENT: Kow Log P 2.92 25°C.

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None.
 MATERIALS TO AVOID: Stable.
 HAZARDOUS DECOMPOSITION Hazardous thermal decomposition products include oxides of sulphur, carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: Low single dose toxicity. LD50 (male rat) >5000 mg/kg.
 ACUTE DERMAL: LD50 (dermal) => 5000 mg/kr (rabbit). Not likely to be absorbed in acutely toxic amounts.
 ACUTE INHALATION: May cause irritation to respiratory tract.
 OTHER TOXICITY INFORMATION:
 Toxicity 6.1B classification relates to inhalation.
 The primary target organs affected are the kidneys, secondary effects are hepatotoxicity and metabolic/weight loss.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96hr) rainbow trout - 0.1 mg/L.
 Soil Toxicity: Toxic to worms.
 Terrestrial Vertebrates - Birds: Toxic to birds. LD50 mallard ducks > 4640 mg/kg
 Very Toxic to fish with long lasting effects. Avoid contamination of any water supply with this product or empty container.
 Toxic to the soil environment.
 Toxic 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 a suitable 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: PESTICIDE LIQUID, TOXIC, N.O.S. (Chlorothalonil)
 UN Number: 2902 UN Hazard Class: 6.1
 Packing Group: III Hazchem Code: 2X
 Additional Information: This substance is not to be transported on passenger service vehicles and must be delivered to a secure shed.

15. REGULATORY INFORMATION:

APPROVED HANDLER: This product must be under the personal control of an approved handler or it must be locked up. However a non approved handler may handle the product 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 is available at all times to provide assistance if necessary.

This product must NOT be applied onto or into water.

MAXIMUM APPLICATION RATES:

For wide-dispersive application methods (aerial, boom, airblast spraying); This substance must not be applied at rates exceeding 2.5L product/ha (equivalent to 1.8kg chlorothalonil/ha), must not be applied more than 4 times per year and an interval of at least 7 days between applications must be observed.

For non wide-dispersive application methods: This substance must not be applied at rates exceeding 210mL product/100m² (equivalent to 151g chlorothalonil/100m²), must not be applied more than 4 times per year and an interval of at least 10 days between applications must be observed.

TRACKED SUBSTANCE; This is a tracked substance, the location and movement of this substance must be recorded at each stage of the products life cycle by the approved handler. These records must be kept for at least three years. The person in charge must ensure all approved handler and appropriate hazard classifications are met on transfer of this product.

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.

NZ EPA Approval Code: HSR101015. See <www.epa.govt.nz> for controls.

ACVM Pesticide Number: P005947. See <www.nzfsa.govt.nz/acvm> 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.