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

PRODUCT NAME: **VANTAL 18 EW**
MANUFACTURER: Cheminova Australia Pty Ltd
SUPPLIER NAME: Lonza NZ Ltd
SUPPLIER ADDRESS: 13-15 Hudson Rd, Bell Block, New Plymouth, New Zealand
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EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PHONE: +64 4 917 9888
CHEMICAL FAMILY: Avermectin USE: Insecticide

2. HAZARDS IDENTIFICATION:

6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
6.8B; Harmful - may cause reproductive/developmental damage from repeated oral exposure.
6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.
9.1A; Very toxic to fish/aquatic organisms with long-lasting effects.
9.2C; Harmful to the soil environment.
9.3C; Harmful to terrestrial vertebrates [birds].
9.4A; Very Toxic to terrestrial invertebrates [bees].
Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

| COMMON NAME: | CAS NUMBER: | CONCENTRATION %: | HAZARD CLASSIFICATIONS: |
|---------------------------------|-------------|------------------|-------------------------|
| Abamectin | 71751-41-2 | 1 - 3 | |
| Other non-hazardous ingredients | | Balance | |

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Remove any contact lenses. Seek medical attention if irritation persists.

SKIN CONTACT: Wash with plenty 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, seek medical assistance.

INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.

NOTES TO DOCTOR: Treat symptomatically.

5. FIRE FIGHTING MEASURES:

| FLASHPOINT: | Not applicable. | HAZCHEM CODE: |
|------------------------------------|--|---------------|
| FLAMMABLE LIMITS: | Not applicable. | |
| EXTINGUISHING MEDIA: | Water spray (fog), Foam, Carbon dioxide or Dry chemical. | |
| THERMAL DECOMPOSITION PRODUCTS: | Vapours may be toxic. Self contained breathing apparatus required. | |
| SPECIAL FIRE FIGHTING METHODS | Not applicable. | |
| UNUSUAL FIRE OR EXPLOSION HAZARDS: | | |

6. ACCIDENTAL RELEASE MEASURES:

Spills may be slippery and should be cleaned up immediately. Clear area of unnecessary personnel. Use appropriate protective equipment.

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. It may be disposed of as an industrial waste in a manner acceptable to good waste management practice at an approved disposal facility and in compliance with all regulations.

7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.
Store in original container in a cool, well ventilated place, away from direct sunlight and extreme heat. Store in accordance with the current version of NZS 8409 - Management of Agrichemicals.
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, eg Full body cover [ankle to wrist clothing and boots].
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: 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.

VENTILATION: General (mechanical) room ventilation is considered satisfactory.
Use in a well ventilated area.

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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: | Off-white liquid | pH: | 6.5 |
| BOILING POINT: | Approx 100 °C | SETTING POINT: | Approx 0 °C |
| DENSITY: | 1.01 | AUTOIGNITION TEMP: | Not data |
| DECOMPOSITION TEMP: | Not data | VAPOUR DENSITY: | Not data |
| FLASHPOINT: | Not applicable. | VAPOUR PRESSURE: | 2.37 kPa at 20 °C |
| EXPLOSION PROPERTIES: | Not applicable. | | |
| SOLUBILITY: | Soluble in water | | |
| OTHER DATA: | | | |
| OCTANOL / WATER PARTITION COEFFICIENT: | Not data | | |

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None known.
 MATERIALS TO AVOID: None known.
 HAZARDOUS DECOMPOSITION Thermal decomposition may release oxides of carbon.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 Rats: 10 mg/kg (Abamectin tech)
 ACUTE DERMAL: Abamectin is not readily absorbed.
 ACUTE INHALATION:
 OTHER TOXICITY INFORMATION:
 May be harmful if swallowed, inhaled or absorbed through the skin.
 May cause reproductive/developmental damage from repeated oral exposure.
 May cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) Rainbow trout; 0.205 mg/L (by calculation).
 LC50 (48h) Daphnia; 0.020 mg/L (by calculation).
 Soil Toxicity: LC50 Eisenia foetida; >1000 mg/kg dry soil
 Terrestrial Vertebrates - Birds: LD50 Bobwhite quail; >2000 mg/kg (by calculation).
 Terrestrial Invertebrates - Bees: LD50; 0.017 µg/bee
 Very toxic to fish/aquatic organisms with long-lasting effects.
 Harmful to the soil environment.
 Harmful to terrestrial vertebrates [birds].
 Very Toxic to terrestrial invertebrates [bees].

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

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.

Vantal 18 EW shall NOT be applied onto or into water.

RECORD KEEPING: A written record of use is required if 3 kg 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.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR100382 See <www.epa.govt.nz> for controls.
 Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P008240 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.