

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

VANTAL 18EW

SUPPLIER NAME: Zelam Limited
MANUFACTURER: Cheminova (NZ) Ltd
SUPPLIER ADDRESS: Hudson Road, Bell Block, New Plymouth, New Zealand
SUPPLIER PHONE: +64 6 755 9234 SUPPLIER FAX: +64 6 755 1174
EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PH: +64 3 353 0199
CHEMICAL FAMILY: Avermectin USE: Insecticide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Abamectin	71751-41-2	18 g/l	
Inerts		Balance	

3. HAZARDS IDENTIFICATION:

Harmful - may be harmful if swallowed or inhaled.
Harmful - may cause reproductive/development damage from repeated oral exposure.
Harmful - may cause organ damage from repeated oral exposure at high doses.
Very toxic to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.
Harmful to the soil environment.
Harmful to terrestrial vertebrates [birds].
Very Toxic to terrestrial invertebrates [bees].

Refer to Section 15 for NZ EPA Requirements.

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. 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: No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not Applicable HAZCHEM Code; 2X
FLAMMABLE LIMITS: Non-Flammable
EXTINGUISHING MEDIA: Water spray (fog), foam, carbon dioxide or dry chemical..
THERMAL DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide and oxides of nitrogen.
SPECIAL FIRE FIGHTING METHODS: None.
UNUSUAL FIRE OR EXPLOSION HAZARDS:

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.

7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.
Store in original container in a cool well-ventilated place, tightly closed away from foodstuffs.
Wear personal protective equipment appropriate to the situation when handling product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No exposure limits (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: in the case of fire or during the formation of mists or aerosols.
PROTECTIVE CLOTHING: When handling wear waterproof gloves, overalls and boots. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Off-White Liquid	pH:	6.5
BOILING POINT:	~ 100 °C	SETTING POINT:	Not Available
DENSITY:	1.01	AUTOIGNITION TEMP:	Not Applicable
DECOMPOSITION TEMP:	Not Available	VAPOUR DENSITY:	Not Available
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 Available		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None.
MATERIALS TO AVOID: None.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide and oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 Rats: 1260mg/Kg
ACUTE DERMAL: Abamectin is not readily absorbed.
ACUTE INHALATION: LC50 Rats [4h]; >5.62 mg/L
OTHER TOXICITY INFORMATION: 6.1D; Harmful - may be harmful if swallowed or inhaled.
6.8B; Harmful - may cause reproductive/development damage from repeated oral exposure.
6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.
Abamectin is suspected to cause adverse effects on fertility and to cause birth defects.
Exposure can cause symptoms of nervous system depression, such as pupil dilation, vomiting, excitation, incoordination, tremors, lethargy and coma. High doses can cause death by respiratory failure.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) Rainbow trout; 0.205 mg/L
LC50 [48h] Daphnia magna; 0.020 mg/L
Soil Toxicity: LC50 Eisenia foetida; >1000 mg/kg dry soil
Terrestrial Vertebrates - Birds: LD50 Bobwhite quail; >2000mg/kg
Terrestrial Invertebrates - Bees: LD50 [48h] contact; 0.017 µg/bee

9.1A; Very toxic to fish with long-lasting effects. Avoid contamination of any water supply with product or empty container.
9.2C; Harmful to the soil environment.
9.3C; Harmful to terrestrial vertebrates [birds].
9.4A; 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 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:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	UN Hazard Class:	9.
UN Number:	3082	Packing Group:	III
Hazchem Code:	2X		
Additional Information:	Contains Abamectin		

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 18EW 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.

NZ EPA Approval Code: HSR100382 ACVM Pesticide Number: P008240
See the NZ EPA Website for more details: www.epa.govt.nz

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.