

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

CLIMAX

SUPPLIER NAME: Zelam Limited
SUPPLIER CODE: None
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
CHEMICAL FAMILY: Nitrile, phenylamide USE: Fungicide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Chlorothalonil	1897-45-6	30 %w/w	Class 6, 9
Inerts		Balance	
Metalaxyl	57837-19-1	< 6 %w/w	
N-Methyl Pyrrolidone	372-50-4	46 %w/w	

3. HAZARDS IDENTIFICATION:

Toxic - may be fatal if swallowed, inhaled or absorbed through the skin.
Danger - this product is corrosive and may cause eye damage.
Harmful - may cause skin irritation. Avoid contact with skin.
Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact.
Harmful - suspected of causing cancer.
Toxic - may cause reproductive/development damage from repeated oral exposure.
Toxic - may cause organ damage from repeated oral exposure at high doses.
Very toxic to fish 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].
Refer to Section 15 for ERMA 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: 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: Avoid inhalation of spray or mists which are likely to be highly irritating. Remove to a source of fresh air and seek medical advice.
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 cream have been effective in treatment of skin.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable. HAZCHEM Code; 2X
FLAMMABLE LIMITS: Not applicable.
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
THERMAL DECOMPOSITION PRODUCTS: Includes oxides of sulphur, carbon and nitrogen
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: 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 product is very toxic to aquatic organisms. Avoid contamination of any water supply with this product or empty container.

7. HANDLING AND STORAGE:

Store in original container, tightly closed under lock and key, away from food stuffs. Harmful - Keep out of reach of children.
Wear eye protection. Impervious gloves should be worn at all times.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: The following acceptable daily exposure [ADE] values apply: Chlorothalonil; 0.03 mg/kg bw/day,
Metalaxyl; 0.03 mg/kg bw/day.
The following potential daily exposure [PDE] values apply: [food] Chlorothalonil; 0.024 mg/kg bw/day,
Metalaxyl; 0.024 mg/kg bw/day.
[drinking water] Chlorothalonil; 0.006 mg/kg bw/day,
Metalaxyl; 0.006 mg/kg bw/day.

EYE PROTECTION: Chemical goggles or face shield where splash may occur.
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:	Avoid breathing in vapours or aerosol from the product. Use an appropriate respirator if exposed to the vapours or aerosol from the product.
PROTECTIVE CLOTHING:	Chemical resistant gloves should be worn at all times. Avoid skin contact. Wear protective clothing such as impervious gloves, 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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Off-White Cream Suspension		
BOILING POINT:	100 °C	pH:	6
DENSITY:	1.17	SETTING POINT:	Not Available.
DECOMPOSITION TEMP:	Not Available.	AUTOIGNITION TEMP:	Not Applicable.
FLASHPOINT:	Not Applicable.	VAPOUR DENSITY:	Not Available.
EXPLOSION PROPERTIES:	None.	VAPOUR PRESSURE:	Not Available.
SOLUBILITY:	Dispersible 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:	Thermal decomposition may release oxides of sulphur, carbon, and nitrogen.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 Rats: >9000 mg/Kg by calculation
ACUTE DERMAL:	
ACUTE INHALATION:	LD50 Rats: 1.7 mg/Kg [4h] by calculation
OTHER TOXICITY INFORMATION:	Toxic - may be fatal if swallowed, inhaled or absorbed through the skin. Danger - this product is corrosive and may cause eye damage. Avoid contact with eyes. Harmful - may cause skin irritation. Avoid contact with skin. Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact. Harmful - suspected of causing cancer. Toxic - may cause reproductive/development damage from repeated oral exposure. Toxic - may cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

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

13. DISPOSAL CONSIDERATIONS:

Triple rinse container and add residue to spray tank. Dispose of container at an approved landfill or Agrecovery Depot.
Avoid contamination of any water supply or stream with this product or empty container.

14. TRANSPORT INFORMATION:

Proper Shipping Name:	PESTICIDE LIQUID TOXIC N.O.S.	UN Hazard Class:	6.1
UN Number:	2902	Packing Group:	III
Hazchem Code:	2X		
Additional Information:	Contains Chlorothalonil and Metalaxyl		

15. REGULATORY INFORMATION:

APPROVED HANDLER. The product shall be under the personal control of an approved handler or locked up.
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.

RECORD KEEPING. A written record of each application or discharge must be kept where members of the public may lawfully be present or the substance is likely to enter the air or water and leave the area. The information must be kept for a minimum of three years.

ERMA Approval Code: HSR007625 ACVM Pesticide Number: P7616
See the ERMA Website for more details: www.ermanz.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.