

# Material Safety Data Sheet

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

PRODUCT NAME: **Max CL**  
MANUFACTURER: Zelam Ltd  
SUPPLIER NAME: Zelam 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 3 353 0199  
CHEMICAL FAMILY: Nitrite USE: Fungicide

## 2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
- Metalaxyl	5783-45-6	< 5%	
- Chlorothalonil	1897-45-6	< 40%	
- Methyl Pyrrolidone	872-50-4	< 30%	
- Inerts		Balance	

## 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 and 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.  
Toxic to the soil environment.  
Toxic to terrestrial vertebrates [birds].  
Refer to Section 15 for NZ EPA Requirements.

## 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 ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.  
INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.  
NOTES TO DOCTOR: No specific antidote. Antihistamines or steroid cream have been effective in treatment of skin.

## 5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable. HAZCHEM CODE: 2X  
FLAMMABLE LIMITS:  
EXTINGUISHING MEDIA: Foam, Carbon dioxide, Dry chemical or Water spray (fog).  
THERMAL DECOMPOSITION PRODUCTS: Include oxides of sulphur, 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.

## 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. Wash protective clothing daily after work.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: Chlorothalonil: ADE - 0.03mg/kg bw/day. PDEfood - 0.024mg/kg bw/day, PDEdrinking water - 0.006mg/kg bw/day.  
Metalaxyl: ADE - 0.03mg/kg bw/day. PDEfood - 0.024mg/kg bw/day, PDEd. water - 0.006mg/kg bw/day.  
n-Methyl Pyrrolidone: ADE - 0.05mg/kg bw/day. PDEfood - 0.03mg/kg bw/day, PDEd. water - 0.01mg/kg bw/day. TELair - 0.4mg/m<sup>3</sup>. TELskin - 0.83mg/m<sup>2</sup> surface area. TELd. water - 0.375mg/L drinking water.  
WES- 25ppm TWA. WES - 75ppm Short Term EL

EYE PROTECTION: Avoid contact with eyes. Wear a face shield or full chemical workers goggles if 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 should 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: Air respirator with organic vapour canister or self contained breathing apparatus when exposed to vapours from heated material.

PROTECTIVE CLOTHING: If skin contact or contamination of clothing is likely, protective clothing should be worn. PVC coated gloves should be worn.

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.

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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:	1.22	SETTING POINT:	less than 0°C
DECOMPOSITION TEMP:	Not available.	AUTOIGNITION TEMP:	Not applicable.
FLASHPOINT:	Not applicable.	VAPOUR DENSITY:	Not available.
EXPLOSION PROPERTIES:	Not applicable.	VAPOUR PRESSURE:	Not available.
SOLUBILITY:	0.81 mg/L water 25°C chlorothalonil, 8.4 g/L metalaxyl		
OTHER DATA:			
OCATANOL / WATER PARTITION COEFFICIENT:	Kow Log P 2.92 (25°C), Chlorothalonil, Kow Log P 1.75 (25 °C) metalaxyl		

## 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) 10 000 mg/kg.

ACUTE DERMAL: LD50 (dermal) > 10 000 mg/kr (rabbit). Not likely to be absorbed in acutely toxic amounts.

ACUTE INHALATION: May cause irritation to respiratory tract.

OTHER TOXICITY INFORMATION:

- 6.1B; Toxic - may be fatal if swallowed, inhaled or absorbed through the skin.
- 8.3A; Danger - this product is corrosive and may cause eye damage.
- 6.3A; Harmful - may cause skin irritation. Avoid skin contact.
- 6.5B; Harmful - may cause skin sensitization from prolonged skin contact. Avoid skin contact.
- 6.7B; Harmful - suspected of causing cancer.
- 6.8A; Toxic - may cause reproductive/development damage from repeated oral exposure.
- 6.9A; Toxic - may cause organ damage from repeated oral exposure at high doses.

## 12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Very toxic to fish. LC50 (96hr) Rainbow trout: 0.1 mg/L

Soil Toxicity: Toxic to worms.

Terrestrial Vertebrates - Birds: Toxic to birds.

9.1A; Very toxic to aquatic organisms. Avoid contamination of any water supply with this product or empty container.

9.2B; Toxic to the soil environment [worms].

9.3B; Toxic to terrestrial vertebrates [birds]

Chlorothalonil: EELwater - 0.53µg/L water. EELsoil - 0.01 mg/kg soil.

## 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.	UN Hazard Class:	6.1
UN Number:	2902	Packing Group:	III
Hazchem Code:	2X		
Additional Information:	Contains Chlorothalonil & Metalaxyl		

Do not carry this product on a passenger service vehicle.

## 15. REGULATORY INFORMATION:

APPROVED HANDLER; 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.

MAX CL shall NOT be applied onto or into water.

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.

This product DOES NOT have Tracking Requirements.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR000092. See <www.epa.govt.nz> for controls.

Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P007088. 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.