

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

CANNON

SUPPLIER NAME: Zelam Limited
MANUFACTURER: Zelam Limited
SUPPLIER ADDRESS: Hudson Road, Bell Block, New Plymouth, New Zealand
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CHEMICAL FAMILY: Nitrile USE: Fungicide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Chlorothalonil	1897-45-6	45 %	
Difenoconazole	119446-68-3	6 %	
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 sensitisation from prolonged skin contact. Avoid skin contact.
Harmful - suspected of causing cancer
Toxic - 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.
Toxic to the soil environment.
Toxic to terrestrial vertebrates [birds].
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: Immediately flush with plenty of water while removing contaminated clothing. 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, drink several glasses of water. DO NOT induce vomiting. Seek medical advice.
NOTES TO DOCTOR: No specific antidote. Antihistamines or steroid cream have been effective in treatment of skin.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Non-flammable. HAZCHEM Code: 2X
FLAMMABLE LIMITS: Non-flammable under normal conditions.
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, Corrosive - Keep out of reach of children.
Store in original container, tightly closed under lock and key, away from food, food related materials, animal feedstuffs, seed or fertilizer.
Eye protection and chemical resistant gloves 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: The following acceptable daily exposure [ADE] values apply: Chlorothalonil; 0.03 mg/kg bw/day.
The following potential daily exposure [PDE] values apply: [food] Chlorothalonil; 0.024mg/kg bw/day.
[drinking water] Chlorothalonil; 0.006mg/kg bw/day.
No exposure limits (WES, or EELs) 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: Not normally required. Exceptions: during the formation of mists or aerosols or in the case of fire.

PROTECTIVE CLOTHING:	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 aqueous suspension concentrate.		
BOILING POINT:	100°C.	pH:	7.0.
DENSITY:	1.222	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. 15 mg/L in water for difenoconazole		
OTHER DATA:	None		
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 PRODUCTS:	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 by calculation
ACUTE DERMAL:	LD50 (dermal) => 5000 mg/kr (rabbit) by calculation. 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. 6.5B: 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 damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity:	Very toxic to fish. LC50 (96hr) rainbow trout - 13 mg/L by calculation.
Terrestrial Vertebrates - Birds:	Toxic to birds. LD50 mallard ducks > 5000 mg/kg
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
9.3B:	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.	UN Hazard Class:	6.1
UN Number:	2902	Packing Group:	III
Hazchem Code:	2X		
Additional Information:	Contains Chlorothalonil and Difenoconazole		
	Do not carry this product on a passenger service vehicle.		

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.

RECORD KEEPING: A written record of each application or discharge must be kept for a minimum of three [3] years 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.

This product shall NOT be applied onto or into water.
The maximum application rate of Cannon is 2 L/ha, three applications per season, with a 14 day interval between applications.
Entry into treated areas prior to 10 days after treatment is not recommended. If entry is deemed necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent) and chemical resistant gloves. Clothing must be laundered after each day's use.

NZ EPA Approval Code: HSR007654 See <www.epa.govt.nz> for controls.
ACVM Pesticide Number: P007604 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.