

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

BARRACHLOR 720

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 USE: Fungicide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Chlorothalonil	1897-45-6	< 80%	Class 6, 9.
Inerts		< 10%	
Surfactants		< 10%	
Water		Balance	

3. HAZARDS IDENTIFICATION:

Toxic - may be fatal if swallowed, inhaled or absorbed through the skin.
Harmful - may cause skin irritation. Avoid contact with skin.
Harmful - may cause eye irritation. Avoid contact with eyes.
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 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. 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.
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: Addition of water may cause excessive foaming. Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff 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 substance is very toxic to aquatic organisms. Avoid contamination of any water supply with this substance or empty container.

7. HANDLING AND STORAGE:

Store in original container, tightly closed under lock and key, away from food stuffs. Wash protective clothing daily after work.
Toxic - Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: Not established by OSHA. for liquid products. Inhalation LC50 dry technical chlorothalonil (1hr for rats) 4.7 mg/L air.
EYE PROTECTION: Chemical goggles or face shield where splash may occur.
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. 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:	1.305.	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.		
OTHER DATA:			
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 polymerisation will not occur. 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.

ACUTE DERMAL: LD50 (dermal) => 5000 mg/kr (rabbit). Not likely to be absorbed in acutely toxic amounts.

ACUTE INHALATION: May cause irritation to respiratory tract.

OTHER TOXICITY INFORMATION: Mild eye irritation (conjunctivitis) disappears after 7 days (rabbits).
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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.

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. LD50 mallard ducks > 4640 mg/kg

Terrestrial Invertebrates - Bees: Not toxic to bees.

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

Toxic 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		

15. REGULATORY INFORMATION:

APPROVED HANDLER; This product must be stored under the personal control of an approved handler 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. Note: The approved handler can be in contact by the use of a cellphone.

TRACKED SUBSTANCE; This is a tracked substance, the location and movement of this substance must be recorded at each stage of the products life cycle by the approved handler. These records must be kept for at least three years. The person in charge must ensure all approved handler and appropriate hazard classifications are met on transfer of this product.

RECORD KEEPING; A written record of each application or discharge must be kept where either: a) The public may lawfully be present. b) The substance is likely to enter the air or water and leave the place. c) If more than 3 Kg is applied within 24 hours in a place where the substance is likely to enter the air or water and leave the place.

This substance is not to be transported on passenger service vehicles and must be delivered to a secure shed. Note: A private car is not considered a passenger service vehicle.

See the ERMA Website for more details: www.ermanz.govt.nz
ERMA Approval Code: HSR000670.

ACVM Pesticide Number: P005947.

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.