

Material Safety Data Sheet

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

PRODUCT NAME: **Taratek 5F**
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: Nitrile Benzimidazole USE: Fungicide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

| COMMON NAME: | CAS NUMBER: | CONCENTRATION %: | HAZARD CLASSIFICATIONS: |
|--------------------|-------------|------------------|-------------------------|
| Chlorothalonil | 1897-45-6 | <40 | Class, 6, 9. |
| Thiophanate Methyl | 23564-05-8 | <40 | Class 6, 9. |
| Inerts | | <20 | |
| Water | | Balance | |

3. HAZARDS IDENTIFICATION:

6.1B; Toxic - may be fatal if swallowed, inhaled or absorbed through the skin.
6.4A; Harmful - may cause eye irritation. Avoid contact with eyes.
6.6B; Harmful - suspected of causing genetic defects.
6.7B; Harmful - suspected of causing cancer.
6.9A; Toxic - may cause organ damage from repeated oral exposure at high doses.
9.1A; Very Toxic to fish with long lasting effects. Avoid contamination of any water supply with this product or empty container.
9.2B; Toxic to the soil environment.
9.3C; Harmful 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 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, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.
NOTES TO DOCTOR: Antihistamines or steroid creams have been effective in treatment of skin.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable. HAZCHEM CODE: 2X
FLAMMABLE LIMITS: Not applicable.
EXTINGUISHING MEDIA: Water spray (fog) or foam.
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. Avoid contamination of any water supply with this substance or empty container.

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.
Wear eye protection. Impervious gloves should be worn at all times. 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: No exposure limits (TEL, or EEL's) have been specifically assigned for this product.
WES set for Propane-1,2-diol [CAS 57-55-6] vapour & particulates: 150 ppm - 474 mg/mo
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: For short term exposure to mists and aerosols use a mask and filter eg. Filter A-P2 .
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.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

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|--|---|--------------------|-----------------|
| APPEARANCE / STATE / ODOUR: | Off white cream aqueous suspension concentrate. | | |
| BOILING POINT: | Not available. | pH: | 5.5 - 6.5 |
| DENSITY: | 1.180 | SETTING POINT: | Not available. |
| DECOMPOSITION TEMP: | Not available. | AUTOIGNITION TEMP: | Not applicable. |
| FLASHPOINT: | Not applicable. | VAPOUR DENSITY: | Not available. |
| EXPLOSION PROPERTIES: | Not applicable. | VAPOUR PRESSURE: | Not available. |
| SOLUBILITY: | Insoluble in water. | | |
| OTHER DATA: | | | |
| OCTANOL / WATER PARTITION COEFFICIENT: | Not available. | | |

10. STABILITY AND REACTIVITY:

| | |
|-------------------------|-------|
| CONDITIONS TO AVOID: | None. |
| MATERIALS TO AVOID: | None. |
| HAZARDOUS DECOMPOSITION | None. |

11. TOXICOLOGICAL INFORMATION:

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|-----------------------------|--|
| ACUTE ORAL: | Low single dose toxicity. LD50 (rat) >5000 mg/kg. |
| ACUTE DERMAL: | LD50 (rats) >5000 mg/kg. Not likely to be absorbed in acutely toxic amounts. |
| ACUTE INHALATION: | |
| OTHER TOXICITY INFORMATION: | |
| Toxic | - may be fatal if swallowed, inhaled or absorbed through the skin. |
| Harmful | - may cause eye irritation. Avoid contact with eyes. |
| Harmful | - suspected of causing genetic defects. |
| 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/aquatic organisms. Avoid contamination of any water supply with this product or empty container. |
| Soil Toxicity: | Toxic to the soil environment |
| Terrestrial Vertebrates - Birds: | Harmful to 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. (Chlorothalonil and Thiophanate Methyl) | | |
| UN Number: | 2902 | UN Hazard Class: | 6.1 |
| Packing Group: | III | Hazchem Code: | 2X |

Additional Information: This substance is not to be transported on passenger service vehicles and must be delivered to a secure shed

15. REGULATORY INFORMATION:

APPROVED HANDLER: If the product package is greater than 200 ml then this product must be under the personal control of an approved handler or it must be secured with a lock so that a person can not gain access to the substance unless the person has a key or other device for operating that lock. 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.

TRACKED SUBSTANCE: For amounts over 200 ml 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 of this product must be kept if more than 200 ml is applied or discharged within 24 hours in a place where;

- members of the public may lawfully be present; or
- 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.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR000618. See <www.epa.govt.nz> for controls.
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P003937. 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.