

# Material Safety Data Sheet

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

PRODUCT NAME: **TRIPSOL**  
MANUFACTURER: Cheminova A/S  
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: Pyrethroid & avermectin USE: Insecticide

## 2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
- Abamectin	65195-55-3	1	
- Acrinathrin	101007-06-1	2	
- Petroleum distillate, hydrotreated	64742-46-7	5	

## 3. HAZARDS IDENTIFICATION:

6.1C; Toxic - may be fatal if swallowed, inhaled or absorbed through the skin.  
6.3B; Harmful - may cause skin irritation. Avoid contact with skin.  
6.4A; Harmful - may cause eye irritation. Avoid contact with eyes.  
6.5B; Harmful - may cause skin sensitization from prolonged skin contact. Avoid skin contact.  
6.7B; Harmful - suspected of causing cancer.  
6.8B; Harmful - may cause reproductive/developmental damage from repeated oral exposure.  
6.8C; Harmful - May cause harm to breast-fed children from repeated oral exposure.  
6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.  
9.1A; Very Toxic to fish/aquatic organisms with long lasting effects.  
9.3B; Toxic to terrestrial vertebrates [birds]  
9.4A; Very Toxic to terrestrial invertebrates [bees]  
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: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. DO NOT use hot water or scrub skin. Seek medical attention if symptoms develop. Wash clothing before reuse.  
INHALATION: If ill-effects or discomfort occurs, move the victim to fresh air. If ill effects persist, seek medical assistance.  
INGESTION: If swallowed, rinse mouth with water immediately then drink 1 or 2 glasses of water. Seek immediate medical attention.  
NOTES TO DOCTOR: No specific antidote. Gastric lavage and/or activated charcoal can be considered for oral ingestion. Exposure causes symptoms of nervous system depression. High doses cause death by respiratory failure. Skin contact may cause paresthesia, Vitamin E cream may be beneficial. Since abamectin is believed to enhance GABA activity based on animal studies, it is probably wise to avoid drugs that enhance GABA activity [barbiturates, benzodiazepines, valproic acid].

## 5. FIRE FIGHTING MEASURES:

FLASHPOINT: HAZCHEM CODE: 2 X  
FLAMMABLE LIMITS: Not determined  
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.  
THERMAL DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide and oxides of nitrogen and phosphorous.  
SPECIAL FIRE FIGHTING METHODS: Vapours may be toxic. Self contained breathing apparatus required.  
UNUSUAL FIRE OR EXPLOSION HAZARDS:

## 6. ACCIDENTAL RELEASE MEASURES:

For a large spill dike and pump as much as possible into a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material. This material is not a persistent organic pollutant and once diluted in soil it represents a low hazard potential. It may be disposed of as an industrial waste in a manner acceptable to good waste management practice in a land fill and in compliance with all regulations.

## 7. HANDLING AND STORAGE:

Toxic - Keep out of reach of children. Pregnant women and breastfeeding mothers should avoid all contact with this product.  
Store in original container, tightly closed under lock and key, in a cool, well ventilated place, away from direct sunlight and extreme heat. Keep away from food stuffs.  
Chemical resistant gloves and eye protection should be worn when handling this product. Facial skin contact may cause temporary facial numbness. Avoid skin contact. Avoid breathing vapours or mist.  
If re-entry work is required within 24 hours of application, personal protective equipment shall be worn. Public access shall not be permitted during this period.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No exposure limits (WES, TEL, or EELs) have been specifically assigned for this product.  
The following acceptable daily exposure [ADE] values apply: Acrinathrin; 0.01 mg/kg bw/day  
The following potential daily exposure [PDE] values apply: [food] Acrinathrin; 0.007 mg/kg bw/day,  
[drinking water] Acrinathrin; 0.002 mg/kg bw/day, [other] Acrinathrin; 0.001 mg/kg bw/day  
EYE PROTECTION: Chemical goggles or face shield when working with this product.  
RESPIRATORY PROTECTION: Inhalation of aerosol must be avoided. For short term exposure to mists and aerosols use a mask and filter eg. Filter A-P2 or a filter canister for organic vapours.  
PROTECTIVE CLOTHING: If skin contact or contamination of clothing is likely, protective clothing [impervious gloves, waterproof hat, coat, trousers and boots] should be worn. Wash protective clothing daily after work.  
VENTILATION: Transfer or mix with adequate ventilation. Suitable respiratory protection should be worn if exposure to vapours or mist is likely.  
HYGIENE PRECAUTIONS: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or

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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: Milky white to cream liquid  
BOILING POINT: Not determined pH: 6  
DENSITY: 1.042 SETTING POINT: Not determined  
DECOMPOSITION TEMP: Not determined AUTOIGNITION TEMP: Not determined  
FLASHPOINT: >95 °C VAPOUR DENSITY: Not determined  
EXPLOSION PROPERTIES: Not applicable VAPOUR PRESSURE: Not determined  
SOLUBILITY: Miscible in water.  
OTHER DATA:  
OCATANOL / WATER PARTITION COEFFICIENT: Abamectin: Log Kow= 5.5 Acrinathrin: Log Kow = 5.24 @ 25 °C

## 10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Heating of product evolves harmful & irritant vapours.  
MATERIALS TO AVOID: None known.  
HAZARDOUS DECOMPOSITION Carbon monoxide and carbon dioxide and oxides of nitrogen and phosphorous.

## 11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 Rats: 366 mg/Kg  
ACUTE DERMAL: LD50 Rats: > 2000 mg/Kg  
ACUTE INHALATION: LC50 Rats: > 0.80 mg/L/4 h

### OTHER TOXICITY INFORMATION:

ACUTE TOXICITY: The product is hazardous to health if swallowed and by inhalation. It is not classified as harmful by skin contact, but is a skin and eye irritant and will also cause skin sensitisation from prolonged skin contact. Avoid skin contact. Suspected of causing cancer and may cause organ damage from repeated oral exposure at high doses. May cause reproductive/developmental damage from repeated oral exposure and may cause harm to breast-fed children from repeated oral exposure.

SYMPTOMS AND EFFECTS, ACUTE AND DELAYED: Low exposure can cause non-specific symptoms (e.g. nausea, vomiting, diarrhoea, itching). Higher doses can cause symptoms of nervous system depression, such as pupil dilation, excitation, incoordination, tremors, convulsions, lethargy, coma. High doses can cause death by respiratory failure.

On contact acrinathrin may cause feelings of burning, tingling or numbness in exposed areas (paraesthesia), which is harmless but can be quite painful, especially in the eye. The effect may result from splash, aerosol or transfer from contaminated gloves. It is enhanced by sweating, water and sunshine. This effect is transient, usually lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.

Inhalation of the product is uncomfortable and can result in coughing and difficulty breathing. This effect should also be taken as a warning to avoid further exposure.

## 12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) Rainbow trout: 3.2 µg/L (Abamectin), - 6.1 µg/L (Acrinathrin)  
EC50 (48h) Daphnia magna: 0.23 µg/L (Abamectin), - 0.022 µg/L (Acrinathrin)  
Soil Toxicity: LC50 Eisenia foetida: 16 mg/kg dry soil (Abamectin), - >1000 mg/kg dry soil (Acrinathrin)  
Terrestrial Vertebrates - Birds: LD50 birds >2000 mg/kg (Abamectin), - >2250 mg/kg (Acrinathrin)  
Terrestrial Invertebrates - Bees: (48h) LC50, contact; 0.00083 µg/bee (Abamectin), - 0.2 -0.5 µg/bee (Acrinathrin)

VERY TOXIC to fish/aquatic organisms with long lasting effects. Avoid contamination of any water supply with this product or empty container. TOXIC to terrestrial vertebrates [birds] VERY TOXIC to terrestrial invertebrates [bees] - Spray must not be applied to plants in flower, or are likely to flower if they are likely to be visited by bees.

## 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.

## 14. TRANSPORT INFORMATION:

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S UN Hazard Class: 9.  
UN Number: 3082 Packing Group: III  
Hazchem Code: 2X  
Additional Information: Contains acrinathrin & abamectin  
Do not carry more than 1 litre of 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.

This product shall be applied at a maximum rate of 0.85 L Tripsol /ha with a maximum application frequency of 4 applications per year and 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.

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.

APPROVED pursuant to the HSNO Act 1996. NZ EPA No: HSR100716 See <www.epa.govt.nz> for controls.

REGISTERED pursuant to the ACVM Act 1997. ACVM No: P008598 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.