

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

TRINITY

SUPPLIER NAME: Zelam Limited
MANUFACTURER: Cheminova [NZ] Limited
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 INTERNATIONAL EMERGENCY PH: +64 3 353 0199
CHEMICAL FAMILY: Cyclohexyl carboxylic acid USE: Plant growth regulator

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Inerts		Balance	
Tetrahydrofurfuryl alcohol	97-99-4	<70 %	
Trinexapac-ethyl	95266-40-3	23 %	

3. HAZARDS IDENTIFICATION:

Harmful to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.
Toxic to the soil environment.

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. 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, seek medical assistance.
INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.
NOTES TO DOCTOR: No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: >90 °C HAZCHEM Code: 2X
FLAMMABLE LIMITS: Tetrahydrofurfuryl alcohol 1.5 -9.7 Vol %
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
THERMAL DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide
SPECIAL FIRE FIGHTING METHODS: None
UNUSUAL FIRE OR EXPLOSION HAZARDS:

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:

Store in original container, in a cool, well ventilated place. Avoid temperatures below 5 °C and above 35 °C.
Keep away from foodstuffs.
Harmful - Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: Not established by OSHA.
EYE PROTECTION: Chemical goggles or face shield where splash may occur.
RESPIRATORY PROTECTION: Not normally required. Exceptions: in the case of fire or during the formation of mists or aerosols when the minimum protection should be an approved face mask with a universal filter type including particle filter.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: Red-brown liquid with alcohol-like odour
BOILING POINT: Tetrahydrofurfuryl alcohol; 178 °C pH: 3.5
DENSITY: 1.097 SETTING POINT: Not available
DECOMPOSITION TEMP: AUTOIGNITION TEMP: Tetrahydrofurfuryl alcohol; 282 °C
FLASHPOINT: >90 °C VAPOUR DENSITY: Not available
EXPLOSION PROPERTIES: Not explosive VAPOUR PRESSURE: Tetrahydrofurfuryl alcohol; 1.5×10^{-3}
SOLUBILITY: Emulsifies in water
OTHER DATA:
OCTANOL / WATER PARTITION COEFFICIENT:

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None.
MATERIALS TO AVOID: None.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 Rats: ~2500 mg/Kg (estimated)
ACUTE DERMAL: LD50 Rats: >2000 mg/Kg (estimated)
ACUTE INHALATION: LC50 Rats: [4h] : >5.0 mg/L (estimated)
OTHER TOXICITY INFORMATION: OTHER TOXICITY INFORMATION:

This product is not expected to be harmful by inhalation, in contact with the skin or if swallowed.
However it should always be treated with the usual care of handling chemicals.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) Channel catfish: 35 mg/L
Soil Toxicity: LC50 Eisenia foetida; >250 mg/kg dry soil
Terrestrial Vertebrates - Birds: LD50 Mallard duck; >2000 mg/kg
Terrestrial Invertebrates - Bees: LD50 [48h contact]; 70 µg/bee

9.1D; Harmful to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.
9.2B; Toxic to the soil environment.

13. DISPOSAL CONSIDERATIONS:

Dispose of this product only by using according to the label. Triple rinse container and add rinsate to spray tank. Crush or puncture cleaned, empty containers and 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: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	UN Hazard Class: 9.
UN Number: 3082	Packing Group: III
Hazchem Code: 2X	
Additional Information: Contains Trinexapac-ethyl	

15. REGULATORY INFORMATION:

This product DOES NOT have Approved Handler, Tracking, or Record Keeping Requirements.

TRINITY is NOT to be applied onto or into water.

Registered pursuant to the ACVM Act 1997. See <www.nzfsa.govt.nz/acvm> for registration conditions.
ACVM Pesticide Number: P08031

Approved pursuant to the HSNO Act 1996. See <www.erma.govt.nz> for controls.
ERMA Approval Code: HSR100067

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.