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

PRODUCT NAME: **TRINITY**
MANUFACTURER: Cheminova A/S
SUPPLIER NAME: Lonza NZ 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 4 917 9888
CHEMICAL FAMILY: Cyclohexyl carboxylic acid USE: Plant growth regulator

2. HAZARDS IDENTIFICATION:

9.1D: Harmful to fish/aquatic organisms with long-lasting effects.
9.2B: Toxic to the soil environment.

Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

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

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:	Not available		
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:

Harmful - Keep out of reach of children.
Store in a well ventilated place in original container, tightly closed away from foodstuffs. Avoid temperatures below 5 °C and above 35 °C.
Keep exposure to a minimum. Wear personal protective equipment appropriate to the situation when handling product, a minimum of eye protection, impervious gloves and coveralls should be worn at all times. Wash protective clothing daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No exposure limits (WES, TEL, or EELs) have been specifically assigned for this product.

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: Red-brown liquid with alcohol-like odour
 BOILING POINT: Tetrahydrofurfuryl alcohol; 178 °C
 DENSITY: 1.097
 DECOMPOSITION TEMP:
 FLASHPOINT: >90 °C
 EXPLOSION PROPERTIES: Not explosive
 SOLUBILITY: Emulsifies in water

pH: 3.5
 SETTING POINT: Not available
 AUTOIGNITION TEMP: Tetrahydrofurfuryl alcohol; 282 °C
 VAPOUR DENSITY: °C
 VAPOUR PRESSURE: Not available
 Tetrahydrofurfuryl alcohol; 1.5 x 10⁻³ Pa; Trinexapac-ethyl; 2.16 x 10⁻³ Pa

OTHER DATA:
 OCTANOL / WATER PARTITION COEFFICIENT:

10. STABILITY AND REACTIVITY:

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

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.

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 an approved 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: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Trinexapac-ethyl)
 UN Number: 3082 UN Hazard Class: 9
 Packing Group: III Hazchem Code: 2X
 Additional Information: IATA Special Provision A197 applies for containers 5L or less (not restricted).

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.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR000802 See <www.epa.govt.nz> for controls.
 Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P008031 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.