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

PRODUCT NAME: **BEETRIX**
MANUFACTURER: Lonza NZ Ltd
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: Benzofuranyl alkanesulfonate, phenyl USE: Herbicide

2. HAZARDS IDENTIFICATION:

6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
6.5B; Harmful - may cause skin sensitization from prolonged skin contact. Avoid skin contact.
6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.
9.1B; Toxic to fish/aquatic organisms with long-lasting effects.
9.2B; Toxic to the soil environment. Selective herbicide.
Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Metameton	41394-05-2	15	
Ethofumesate	26225-79-6	5	
Phenmedipham	13684-63-4	5	
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: Not applicable HAZCHEM CODE: 2 X
FLAMMABLE LIMITS: Not applicable
EXTINGUISHING MEDIA: Water spray (fog), Foam, Carbon dioxide or Dry chemical.
THERMAL DECOMPOSITION PRODUCTS: Oxides of sulfur, nitrogen and carbon.
SPECIAL FIRE FIGHTING METHODS
UNUSUAL FIRE OR EXPLOSION HAZARDS:

6. ACCIDENTAL RELEASE MEASURES:

Spills may be slippery and should be cleaned up immediately. Clear area of unnecessary personnel. Use appropriate protective equipment such as gloves protective eye glasses and impervious vinyl or tyvec outer clothing.
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. 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:

Harmful - Keep out of reach of children.
Store in original container, tightly closed away from food, food related materials, animal feedstuffs, seed or fertilizer.
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 (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: during the formation of mists or aerosols or in the case of fire.
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: General (mechanical) room ventilation is considered satisfactory. Use in a well ventilated area.
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:	White to cream liquid		
BOILING POINT:	Not available	pH:	4.5 - 6.5
DENSITY:	1.085	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:	Dispersible in water		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not available		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None known.
 MATERIALS TO AVOID: None known.
 HAZARDOUS DECOMPOSITION: Oxides of sulfur, nitrogen and carbon.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 Rats: > 5000 mg/Kg (by calculation)
 ACUTE DERMAL: Not determined
 ACUTE INHALATION: LC50 Rats: 37 mg/L 4h (by calculation)
 OTHER TOXICITY INFORMATION:
 May be harmful if swallowed, inhaled or absorbed through the skin.
 May cause skin sensitization from prolonged skin contact. Avoid skin contact.
 May cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) fish 18.9 mg/L (by calculation).

 Toxic to fish/aquatic organisms with long lasting effects. Avoid contamination of any water supply with this product or empty container.
 Toxic to the soil environment. Selective herbicide - very toxic to some plant species (certain plants may be killed or damaged from root uptake of this product).

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 (Metameton, Ethofumesate & Phenmedipham)
 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).
 Do not carry more than 1 litre of this product on a passenger service vehicle.

15. REGULATORY INFORMATION:

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

 Beatrix shall NOT be applied onto or into water and shall be applied via ground-based methods only

 Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR100524 See <www.epa.govt.nz> for controls.
 Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P008612 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.