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

PRODUCT NAME: **SAXON**
 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: Pyridine carboxylic acid USE: Herbicide

2. HAZARDS IDENTIFICATION:

6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
 6.9A; Toxic - may cause organ damage from repeated oral exposure at high doses.
 8.2B; Danger - this product is corrosive to the skin and may cause burns.
 8.3A; Danger - this product is corrosive and may cause eye damage.
 9.1A; Very toxic to fish with long-lasting effects.
 9.2A; Very toxic to the soil environment [Selective herbicide].
 9.3B; Toxic to terrestrial vertebrates [birds].
 Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
MCPA as the amine salt	97-74-6	< 20	
MCP-P as the potassium salt	16484-77-8	< 20	
Solvent Naptha	64742-94-5	< 15	
Aliphatic Amine	141-43-5	< 10	
Fluroxypyr meptyl	81406-37-3	< 10	
Inerts		Balance	

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. Seek medical attention if irritation persists. Wash clothing before reuse.
 INHALATION: Avoid inhalation of spray or mists which are likely to be highly irritating. Remove to a source of fresh air and seek medical advice.
 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: > 95 °C HAZCHEM CODE: 2X
 FLAMMABLE LIMITS: Not available
 EXTINGUISHING MEDIA: Foam, Carbon dioxide, Dry chemical or Water spray (fog).
 THERMAL DECOMPOSITION PRODUCTS: Hydrogen chloride, nitrogen oxides, under fire conditons. Chlorinated pyridines.
 SPECIAL FIRE FIGHTING METHODS: Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated run-off to enter drains.
 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. 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 in a cool, well ventilated place, away from direct sunlight and extreme heat.
 Keep container tightly closed away from food, food related materials, animal feedstuffs, seed or fertilizer.
 Chemical resistant gloves, eye protection, overalls and boots should be worn when handling this 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 for Aliphatic Amine [CAS 141-43-5]; TWA 1.1 ppm [7.5 mg/m³]
 WES for Solvent Naptha [CAS 64742-94-5]; TWA 15 ppm [100 mg/m³k]
 EYE PROTECTION: Avoid contact with eyes. Wear a face shield or full chemical workers goggles when handling this product.
 RESPIRATORY PROTECTION: 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: Avoid skin contact. Wear protective clothing such as impervious gloves, waterproof hat, coat and trousers (worn outside rubber boots) when using. 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: Light tan solution.			
BOILING POINT:	Not available	pH:	6.5 - 7.5
DENSITY:	1.16	SETTING POINT:	Not available
DECOMPOSITION TEMP:	Not available	AUTOIGNITION TEMP:	Not available
FLASHPOINT:	> 95 °C	VAPOUR DENSITY:	Not available
EXPLOSION PROPERTIES:	Not available	VAPOUR PRESSURE:	Not available
SOLUBILITY:	> 300 g/L in water.		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not available		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Temperatures > 150°C.
 MATERIALS TO AVOID: Avoid strong bases, strong oxidising agents.
 HAZARDOUS DECOMPOSITION: Hydrogen chloride, nitrogen oxides under fire conditions. Chlorinated pyridine.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 rat: 1000 mg/kg [by calculation].
 ACUTE DERMAL:
 ACUTE INHALATION:
 OTHER TOXICITY INFORMATION:
 May be harmful if swallowed, inhaled or absorbed through the skin.
 May cause organ damage from repeated oral exposure at high doses.
 This product is corrosive to the skin and eyes, may cause burns and eye damage..

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) Rainbow trout; 152 mg/L (by calculation).
 Terrestrial Vertebrates - Birds: LD50 Bobwhite quail; 2030 mg/kg (by calculation).
 Very toxic to fish with long-lasting effects. Avoid contamination of any water supply with product or empty container.
 Very 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).
 Toxic to terrestrial vertebrates [birds].

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:	CORROSIVE LIQUID, N.O.S. (MCPA, MCPP, Fluroxypyr meptyl)		
UN Number:	1760	UN Hazard Class:	8
Packing Group:	III	Hazchem Code:	2X

Additional Information: This product requires segregation from certain other Classes of Dangerous Goods. Check the latest LTSA DG Rule 45001 for additional information. Do not carry more than 0.5 L of this product on a passenger service vehicle.

15. REGULATORY INFORMATION:

APPROVED HANDLER: The product must be under the personal control of an approved handler when:
 a) the product is applied in a wide dispersive manner; or b) used by a commercial contractor.
 However, it may be handled by a person who is not an approved handler 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
 - the approved handler is available at all times to provide assistance if necessary.

Saxon shall NOT be applied onto or into water and shall be applied via ground-based methods only.
 The maximum application rate of this product shall be 4 L Saxon /ha.

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.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR100501 See <www.epa.govt.nz> for controls.
 Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P008401 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.