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

PRODUCT NAME: **TEEDAL**
 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: Acids USE: Herbicide

2. HAZARDS IDENTIFICATION:

6.1E; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
 6.9.B; Harmful - may cause organ damage from repeated oral exposure at high doses.
 8.2C; Danger - this product is corrosive to the skin and may cause skin burns
 8.3A; Danger - this product is corrosive and may cause eye damage.
 9.1A; Very Toxic to fish/aquatic organisms with long lasting effects.
 9.2A; Very 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:
TCA	650-51-1	<80	Class 6, 8, 9.
Dichloropropionic acid		<20	Class 6, 8, 9.
Inerts		<10	

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush eyes with flowing water for at least 15 minutes. Get prompt medical attention.
 SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. DO NOT scrub skin. Wash clothing before reuse.
 INHALATION: If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
 INGESTION: If swallowed, drink several glasses of water. DO NOT induce vomiting. Seek medical advice.
 NOTES TO DOCTOR: Temporary allergy - redness of eyes and exposed skin may occur from excessive exposure.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable. HAZCHEM CODE: 2X
 FLAMMABLE LIMITS: Not applicable.
 EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
 THERMAL DECOMPOSITION PRODUCTS: None.
 SPECIAL FIRE FIGHTING METHODS: Addition of water may cause excessive foaming. Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff to enter drains.
 UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment, avoid inhaling dust and avoid skin contact, wear PVC gloves, goggles and overalls. Clear area of unnecessary personnel. Sweep up as much powder as possible. Cover the spill area with water and absorb. Minimise run-off into waterways or drains.

7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.
 Store in original container, tightly closed, below 35°C in a dry area and away from food, food related materials, animal feedstuffs, seed or fertilizer.
 Wear eye protection. Impervious gloves should be worn at all times when handling. 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: Avoid contact with eyes. Wear a full face mask or full chemical workers goggles when there is a risk of dust or a splash getting in the eyes.
 RESPIRATORY PROTECTION: Avoid exposure to dust from the product, use a dust mask if dust is present.
 PROTECTIVE CLOTHING: PVC-coated gloves and overalls. Avoid skin contact.
 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: Cream to tan, hygroscopic powder.
BOILING POINT: Not applicable. pH: 10 [in 5% water soln]
DENSITY: Not available. SETTING POINT: Not applicable.
DECOMPOSITION TEMP: Not available. AUTOIGNITION TEMP: Not applicable.
FLASHPOINT: Not applicable. VAPOUR DENSITY: Not available
EXPLOSION PROPERTIES: Not applicable. VAPOUR PRESSURE: Not available
SOLUBILITY: Mixes readily with water.
OTHER DATA:
OCTANOL / WATER PARTITION COEFFICIENT: Not available

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Decomposes above 35°C.
MATERIALS TO AVOID: None.
HAZARDOUS DECOMPOSITION: None.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: Low single dose toxicity. LD50 (male rat) >5000 mg/kg.
ACUTE DERMAL:
ACUTE INHALATION:
OTHER TOXICITY INFORMATION:
May be harmful if swallowed, inhaled or absorbed through the skin.
Corrosive to the skin and eyes, may cause skin burns and eye damage.
May cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Very toxic to fish.
Soil Toxicity: Very toxic to the soil environment.
Terrestrial Vertebrates - Birds: Not toxic to birds.
Terrestrial Invertebrates - Bees: Not toxic to bees.

Very Toxic to fish/aquatic organisms with long lasting effects. Avoid contamination of any water supply with this 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).

13. DISPOSAL CONSIDERATIONS:

Dispose of this product only by using according to the label. The packaging can be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance to all regulations. Avoid contamination of any water supply with chemical or packaging.

14. TRANSPORT INFORMATION:

Proper Shipping Name: CORROSIVE SOLID, N.O.S. (Dichloropropionic acid)
UN Number: 1759 UN Hazard Class: 8
Packing Group: III Hazchem Code: 2X

Additional Information: Do not carry more than 2 kg 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:

- the product is applied in a wide dispersive manner; or
- 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.

Teedal shall NOT be applied onto or into water.

RECORD KEEPING: A written record of use is required if 3 kg or more of this product is used within 24 hours in a place where:

- public may lawfully be present; or
- the substance is likely to enter air or water supply and leave the place where it is under control.

The information must be kept for a minimum of three [3] years.

This product DOES NOT have Tracking Requirements.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR000421 See <www.epa.govt.nz> for controls.
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P001592 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.