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

PRODUCT NAME: **TAG G2**
 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: Triazole, triazine, phosphonomethyl USE: Knockdown & residual herbicide

2. HAZARDS IDENTIFICATION:

6.1E; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
 6.4A; Harmful - may cause eye irritation. Avoid contact with eyes.
 6.8B; Harmful - may cause reproductive/development damage from repeated oral exposure.
 6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.
 9.1A; Very Toxic to fish with long lasting effects.
 9.2A; Very toxic to the soil environment [Selective herbicide].
 9.3C; Harmful to terrestrial vertebrates [birds].
 Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Terbutylazine	5915-41-3	<40	Class 6, 9
Inerts		<20	
Amitrole	61-82-5	<10	Class 6, 9
Glyphosate	1071-83-6	<10	
Oxyfluorfen	42874-03-3	<10	Class 9
1,2-ethanediol (ethylene glycol)	107-21-1	<3	

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Consult doctor if irritation persists.
 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 ill effects occur, move to fresh air. If ill effects persist consult a doctor.
 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:	Dry chemical, water spray (fog), foam or carbon dioxide.		
THERMAL DECOMPOSITION PRODUCTS:	Includes oxides of sulphur, carbon and nitrogen.		
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:	None.		

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.
 Warning this substance is very toxic to fish. Avoid contamination of any water supply with this substance or empty container.

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. Wear other protective clothing such as impervious gloves, waterproof hat, coat and trousers (worn outside rubber boots) when using. Wash protective clothing daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No exposure limits (TEL, or EELs) have been specifically assigned for this product. A WES of 0.2 mg/m³ [TWA] is adopted for Amitrole.
 EYE PROTECTION: WES set for 1,2-ethanediol [CAS 107-21-1] - (vapour & mist): Ceiling 50ppm (127mg/m³)
 Avoid contact with eyes. Wear a face shield or full chemical workers goggles when there is a risk of a splash.
 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: Wear protective clothing: chemical resistant gloves, chemical resistant boots and overalls when mixing & 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 brown/cream suspension concentrate
 BOILING POINT: Not available. pH: 5.0
 DENSITY: 1.15 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: Miscible in water
 OTHER DATA:
 OCTANOL / WATER PARTITION COEFFICIENT: Not available.

10. STABILITY AND REACTIVITY:

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

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: Low single dose toxicity LD50 (male rat) >5100 mg/kg [by calculation].
 ACUTE DERMAL:
 ACUTE INHALATION:
 OTHER TOXICITY INFORMATION:
 May be harmful if swallowed, inhaled or absorbed through the skin.
 May cause eye irritation. Avoid contact with eyes. May cause reproductive/development damage from repeated oral exposure and organ damage from repeated oral exposure at high doses. Target organs affected are the cardiovascular system and the nervous system.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) fish 8.57 mg/L (by calculation).
 Very Toxic to fish 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).
 Harmful to terrestrial vertebrates [birds]

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
 (Terbutylazine, Glyphosate, Amitrole & Oxyfluorfen)
 UN Number: 3082 UN Hazard Class: 9
 Packing Group: III Hazchem Code: 2X
 Additional Information:

15. REGULATORY INFORMATION:

APPROVED HANDLER: The product shall 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.

TAG G2 shall NOT be applied directly 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:
 a) public may lawfully be present; or
 b) 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.

The following maximum application rates of TAG G2 have been set:
 a) Non-crop land - 25 L TAG G2/ha with a maximum frequency of twice a year.
 b) Orchards - 6 L TAG G2/ha with a maximum frequency of 6 [six] applications per year.

This product DOES NOT have Tracking Requirements.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR007866 See <www.epa.govt.nz> for controls.
 Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P007734 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.