

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

BRUNO

SUPPLIER NAME: Zelam Limited
SUPPLIER CODE: None
SUPPLIER ADDRESS: Hudson Road, Bell Block, New Plymouth, New Zealand
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CHEMICAL FAMILY: USE: Herbicide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Cyanazine	21725-46-2	< 46%	Class 9.
Inerts		10%	
Water		Balance	

3. HAZARDS IDENTIFICATION:

Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
Harmful - may cause reproductive/development damage from repeated oral exposure.
Toxic - may cause organ damage from repeated oral exposure at high doses.
Very toxic to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.
Toxic to terrestrial vertebrates [birds].
Refer to Section 15 for ERMA Requirements.

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. 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, consult a doctor.
INGESTION: If swallowed, drink several glasses of water. DO NOT induce vomiting. Seek medical advice.
NOTES TO DOCTOR: No specific antidote. Treat Symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not Applicable. HAZCHEM Code; 2X
FLAMMABLE LIMITS: Not Applicable.
EXTINGUISHING MEDIA: Foam, Carbon dioxide, Dry chemical or Water spray (fog).
THERMAL DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.
SPECIAL FIRE FIGHTING METHODS: Spills may be slippery and should be cleaned up immediately.
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. Minimise runoff into waterways or drains.

7. HANDLING AND STORAGE:

Store in original container, tightly closed away from foodstuffs. Wash protective clothing daily after work.
Toxic - Keep out of reach of children.
Ecotoxic - Toxic to aquatic life forms and terrestrial vertebrate (birds)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: Not established by OSHA.
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.
PROTECTIVE CLOTHING: When handling wear waterproof gloves, overalls and boots.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: White Liquid.
BOILING POINT: Not Available. pH: 7
DENSITY: 1.124 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: Sparingly soluble in water. 170 mg/L Soluble in polar organic solvents
OTHER DATA: None
OCTANOL / WATER PARTITION COEFFICIENT: Not Available

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Extreme temperatures.
MATERIALS TO AVOID: None.
HAZARDOUS DECOMPOSITION PRODUCTS: None.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 Rats: 395 mg/kg (By calculation)
ACUTE DERMAL: LD50 Rats: 2396 mg/kg (By calculation)
ACUTE INHALATION: LC50 Rats: 749 mg/L (By calculation)
OTHER TOXICITY INFORMATION: 6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
6.8B; Harmful - may cause reproductive/development damage from repeated oral exposure.
6.9A; Toxic - may cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Very toxic to fish. LC50 (96 hr): 21 mg/L.
Soil Toxicity: Not toxic to soil environment..
Terrestrial Vertebrates - Birds: Toxic to birds. Ducks LD50: 863 mg/kg.
Terrestrial Invertebrates - Bees: Not toxic to bees.

9.1A; Very Toxic to fish/aquatic organisms with long lasting effects. Avoid contamination of any water supply with this product or empty container.
9.3B; Toxic to terrestrial vertebrates [birds]

13. DISPOSAL CONSIDERATIONS:

Triple rinse container and add residue to spray tank. Burn the container if circumstances, especially wind direction permit. Otherwise bury in a landfill. Avoid contamination of any water supply with chemical or empty container. Do not use the container for any other purpose.

14. TRANSPORT INFORMATION:

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S UN Hazard Class: 9.
UN Number: 3082 Packing Group: III
Hazchem Code: 2X
Additional Information: Contains Cyanazine.

15. REGULATORY INFORMATION:

Approved Handler.
An approved handler is required where a) The product is applied in a wide dispersive manner (aerial, motorised equipment). b) By a commercial contractor. c) Directly onto or into water.
If an approved handler is present at the facility where the substance is being handled, or the approved handler has provided guidance to the person in respect to the handling of the product and is present at all times a non approved handler may handle the product.

Record Keeping.
A written record of each application or discharge must be kept where members of the public may lawfully be present, the substance is likely to enter the air or water and leave the area, or more than 3 Kg is applied within 24 hours in a place where where the substance is likely to enter the air or water and leave the place. The information must be kept for a minimum of three years.

This product DOES NOT have Tracking Requirements.

See the ERMA Website for more details: www.ermanz.govt.nz
ERMA Approval Code: HSR000964.

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 products' properties.