

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

VICE

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

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Glufosinate Ammonium	77182-82-2	20 %	Class 9.
Inerts		Balance	Class 6, 9.
Water		60%	

3. HAZARDS IDENTIFICATION:

Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
Harmful - may cause skin or eye irritation.
Harmful - may cause reproductive/developmental damage from repeated oral exposure.
Toxic - may cause organ damage from repeated oral exposure at high doses.
Harmful to aquatic organisms.
Very toxic to the soil environment
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: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. DO NOT SCRUB THE 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. Seek medical attention.
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: Dry powder, carbon dioxide, or foam.
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: Spills may be slippery and should be cleaned up immediately.

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:

Harmful - Keep out of reach of children.
Store in original container, tightly closed away from foodstuffs. Use spray solutions the same day.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: Not established by OSHA.
EYE PROTECTION: Avoid contact with eyes. Wear a face shield or full chemical workers goggles when there is a risk of a splash.
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.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: Brown Hazy Liquid
BOILING POINT: >100 Degrees C
DENSITY: 1.08
DECOMPOSITION TEMP: Not Available.
FLASHPOINT: Not Applicable.
EXPLOSION PROPERTIES: Not Applicable.
SOLUBILITY: Soluble in water
OTHER DATA: None
OCTANOL / WATER PARTITION COEFFICIENT: Not Available.

pH: 4 - 6
SETTING POINT: Not Available.
AUTOIGNITION TEMP: Not Applicable.
VAPOUR DENSITY: Not Available.
VAPOUR PRESSURE: Not Available.

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None
MATERIALS TO AVOID: None
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may release ammonia, carbon monoxide and oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: > 2000 mg/Kg Rats.
ACUTE DERMAL: > 2000 mg/Kg Rats.
ACUTE INHALATION: > 5.0 ml/L Rats.
OTHER TOXICITY INFORMATION: 6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
6.3B; Harmful - May cause skin irritation, avoid skin contact.
6.4A; Harmful - May cause eye irritation, avoid contact with eyes.may cause skin or eye irritation.
6.8B; Harmful - may cause reproductive/developmental damage from repeated oral exposure.
6.9A; Toxic - may cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Harmful to aquatic organisms.
Soil Toxicity: Very toxic to the soil environment
Terrestrial Vertebrates - Birds: Not toxic to birds.
Terrestrial Invertebrates - Bees: Not toxic to bees.
9.1C; Harmful to fish/aquatic organisms with long lasting effects. Avoid contamination of any water supply with this product or empty container.
9.2A; 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:

Triple rinse container and add rinsate to spray tank. 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: ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S
UN Number: 3082
Hazchem Code: 2X
Additional Information: Contains Glufosinate Ammonium.

UN Hazard Class: 9
Packing Group: III

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.

RECORD KEEPING:
Record keeping is required if 200 mL or more 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 and leave the place.
The information must be kept for a minimum of three [3] years.

This product DOES NOT have Tracking Requirements.

ERMA Approval Code: HSR007813
ACVM Pesticide Number: P007718
See the ERMA Website for more details: www.ermanz.govt.nz

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.