

ZELAM ACTIVATED AMITROLE 400

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

ZELAM ACTIVATED AMITROLE 400

SUPPLIER NAME: Zelam Limited
SUPPLIER CODE: None
SUPPLIER ADDRESS: Hudson Road, Bell Block, New Plymouth, New Zealand
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CHEMICAL FAMILY: Triazole USE: Non selective herbicide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Amitrole	61-82-5	32%	Class 6, 9
Ammonium Sulphamate	7773-06-0	< 20%	Class 6, 9
Ammonium Thiocyanate	1762-95-4	< 10%	Class 6, 9
Water and Inerts		Balance	Class 6, 9

3. HAZARDS IDENTIFICATION:

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

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: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.
INHALATION: Avoid inhalation of spray or mists which are likely to be irritating. If ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.
INGESTION: If swallowed, DO NOT induce vomiting. Rinse mouth only do not drink any fluids. Take to hospital without delay.
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 nitrogen and carbon and hydrogen cyanide.
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. 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 under lock and key, away from food stuffs. Wash protective clothing daily after work.
Harmful - Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No limits set for the liquid solutions of amitrole solutions. Amitrole is of low acute toxicity.
EYE PROTECTION: Chemical goggles or face shield where splash may occur.
RESPIRATORY PROTECTION: General (mechanical) room ventilation is considered satisfactory.
PROTECTIVE CLOTHING: When handling wear waterproof gloves, overalls and boots.
VENTILATION: No appreciable vapour pressure at normal ambient temperatures.
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: Straw to reddish brown solution with little odour.
BOILING POINT: >100°C. pH: 4.
DENSITY: 1.25. SETTING POINT: Not Applicable.
DECOMPOSITION TEMP: >120°C. AUTOIGNITION TEMP: Not Applicable.
FLASHPOINT: Not Applicable. VAPOUR DENSITY: Not Applicable.
EXPLOSION PROPERTIES: Not Applicable. VAPOUR PRESSURE: 3.3 x (10⁻⁵) amitrole technical.
SOLUBILITY: 280 g/l water.
OTHER DATA: None
OCTANOL / WATER PARTITION COEFFICIENT: Kow log P= -0.97.

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None.
MATERIALS TO AVOID: Contact with strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen cyanide, oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 rat >5000 mg/kg [by calculation].
ACUTE DERMAL: LD50 rat >5000 mg/kg [by calculation].
ACUTE INHALATION:
OTHER TOXICITY INFORMATION: 6.1D; 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.
6.9A; Toxic - may cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Toxic to fish. Fish LC 50 (96 hr) for rainbow trout: 1000 mg/L
Soil Toxicity: Very toxic to the soil environment.
Terrestrial Vertebrates - Birds: Not toxic to birds.
Terrestrial Invertebrates - Bees: Not toxic to bees.

9.1B; Toxic 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 Hazard Class: 9.
UN Number: 3082 Packing Group: III
Hazchem Code: 2X
Additional Information: Contains Amitrole.

15. REGULATORY INFORMATION:

APPROVED HANDLER: The product shall 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.
- Directly onto or into water.

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:

- public may lawfully be present; or
- 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: HSR000422.
ACVM Pesticide Number: P006051.
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.