

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

KALAS

SUPPLIER NAME: Zelam Limited
MANUFACTURER: Zelam Limited
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CHEMICAL FAMILY: Pyrazole USE: Insecticide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Fipronil	120068-37-3	19 %	
Inerts		Balance	

3. HAZARDS IDENTIFICATION:

Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
Harmful - may cause eye irritation. Avoid contact with eyes.
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].
Very Toxic to terrestrial invertebrates [bees].
Refer to Section 15 for NZ EPA 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. DO NOT scrub the skin. Continue for at least 15 minutes. 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, rinse mouth with water immediately. DO NOT induce vomiting. For advice contact the National Poisons Centre [0800 764 766]. Seek medical attention.
NOTES TO DOCTOR: No specific antidote. Treat symptomatically. Fipronil is absorbed slowly through the gut and can be decreased by the use of gastric lavage.

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: Thermal decomposition may release oxides of carbon and nitrogen and hydrochloric acid.
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. Minimise runoff into waterways or drains. It may be disposed of as an industrial waste in a manner acceptable to good waste management practice in a land fill and in compliance with all regulations.

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.
Keep separate from strong oxidising agents.
Wear 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 EEL's) have been specifically assigned for this product.
EYE PROTECTION: Chemical goggles or face shield where splash may occur.
RESPIRATORY PROTECTION: Not normally required. Transfer or mix with adequate ventilation. Exceptions: in the case of fire or during the formation of mists or aerosols. 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 such as impervious gloves, waterproof hat, coat and trousers (worn outside rubber boots) when using.
Wash protective clothing daily after work.
VENTILATION: Transfer or mix with adequate 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: 100 °C pH: 5 - 8
DENSITY: 1.09 SETTING POINT: -5 °C
DECOMPOSITION TEMP: Not available AUTOIGNITION TEMP: Not available
FLASHPOINT: Non-flammable VAPOUR DENSITY: Not available
EXPLOSION PROPERTIES: None VAPOUR PRESSURE: 3.7 x 10(exp-4) mPa @ 25 °C
SOLUBILITY: 1.9 mg/L water [@ pH5 20 °C]
OTHER DATA:
OCTANOL / WATER PARTITION COEFFICIENT: Kow logP = 4

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Product is stable under normal temperatures and pressures.
MATERIALS TO AVOID: Strong oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage no hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 Rats: >500 mg/Kg (by calculation)
ACUTE DERMAL: LD50 Rats: >2000 mg/Kg (by calculation)
ACUTE INHALATION: LC50 [4hr] Rats: 3.6 mg/L (by calculation)
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.
6.9A; Toxic - may cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) Japanese carp; 1.8 mg/L (by calculation).
LC50 (48h) Daphnia; 1.0 mg/L (by calculation).
Soil Toxicity: Not toxic to earthworms.
Terrestrial Vertebrates - Birds: LD50 Bobwhite quail; 59 mg/kg (by calculation).
Terrestrial Invertebrates - Bees: LD50; Very Toxic
9.1A; Very toxic to fish with long-lasting effects. Avoid contamination of any water supply with product or empty container.
9.3B; Toxic to terrestrial vertebrates [birds].
9.4A; Very Toxic to terrestrial invertebrates [bees]. Spray must not be applied to plants in flower, or are likely to flower within seven [7] days, if they are likely to be visited by bees.

13. DISPOSAL CONSIDERATIONS:

Dispose of this product only by using according to the label. Triple rinse container and add rinsate to spray tank. Crush or puncture cleaned, empty containers and 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 Fipronil
Do not carry more than 1 L 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:
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.

This product must not be applied to plants in flower, or are likely to flower within seven [7] days, if they are likely to be visited by bees.

Kalas shall NOT be applied onto or into water.

RECORD KEEPING: A written record of each application or discharge must be kept where -
a) members of the public may lawfully be present; or
b) the substance is likely to enter the air or water supply and leave the area where it is under control.
The information must be kept for a minimum of three [3] years.

NZ EPA Approval Code: HSR000831 ACVM Pesticide Number: P08004
See the NZ EPA Website for more details: www.epa.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 product's properties.