

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

SPARK

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

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Acetochlor	034256-82-1	40 - 65%	Class 6, 9.
Dichlirimid	37764-25-3	<20%	Class 6, 9.
Inerts		Balance	
Metribuzin	21087-64-9	<20%	Class 6, 9.

3. HAZARDS IDENTIFICATION:

Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
Harmful - may cause skin and eye irritation. Avoid contact with skin and eyes.
Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact.
Toxic - may cause reproductive/development damage from repeated oral exposure.
Harmful - 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.
Very Toxic to the soil environment.
Harmful 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. Get 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 ill-effects occur, remove to fresh air.
INGESTION: If swallowed, dilute by drinking several glasses of water or milk. Do not induce vomiting unless patient has received high doses. Seek medical advice.
NOTES TO DOCTOR: No specific antidote.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Non-flammable. HAZCHEM Code: 2X
FLAMMABLE LIMITS: None.
EXTINGUISHING MEDIA: Foam, Carbon dioxide, Dry chemical or Water spray (fog). Prevent run-off from entering into any water supply.
THERMAL DECOMPOSITION PRODUCTS: Include oxides of carbon, nitrogen and hydrogen chloride vapour.
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 personal. 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.
Warning this substance is very toxic to aquatic organisms. Avoid contamination of any water supply with this substance or empty container.

7. HANDLING AND STORAGE:

Store in original container, tightly closed and away from foodstuffs. Wash protective clothing daily after work.
Harmful - Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: Not established.
EYE PROTECTION: Chemical goggles or face shield when handling.
RESPIRATORY PROTECTION: Air respirator with organic vapour canister or self contained breathing apparatus when exposed to vapours from heated material.
PROTECTIVE CLOTHING: If skin contact or contamination of clothing is likely, protective clothing should be worn such as impervious gloves, waterproof hat, coat and trousers (worn outside rubber boots) when 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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: Brown liquid.
BOILING POINT: >100°C
DENSITY: 1.09
DECOMPOSITION TEMP: Not Available.
FLASHPOINT: >93 °C
EXPLOSION PROPERTIES: Not Applicable.
SOLUBILITY: 233 mg/L (acetochlor)
OTHER DATA:
OCTANOL / WATER PARTITION COEFFICIENT: Kow logP 4.14

pH: 9
SETTING POINT: Not Available.
AUTOIGNITION TEMP: Not Applicable.
VAPOUR DENSITY: Not Available.
VAPOUR PRESSURE: 400 mPa @ 20°C- acetochlor

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Stable under normal storage conditions
MATERIALS TO AVOID: Acidic solutions. Contact with aluminium and galvanised steel.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon sulfur nitrogen and hydrogen chloride may be formed.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 for rats 2568mg/kg rats. (by calculation)
ACUTE DERMAL: LD50 for rats >5683 mg/kg. (by calculation)
ACUTE INHALATION: Not available
OTHER TOXICITY INFORMATION: 6.1C; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
6.3B; Harmful - may cause skin irritation. Avoid contact with skin.
6.4A; Harmful - may cause eye irritation. Avoid contact with eyes.
6.5B; Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact.
6.8A; Toxic - may cause reproductive/development damage from repeated oral exposure.
6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) [rainbow trout]: 0.6 mg/L (by calculation).
Soil Toxicity: Very toxic to the soil environment
Terrestrial Vertebrates - Birds: LD50 [bobtail quail] 2074 mg/L (by calculation).

9.1A; Very Toxic to fish/aquatic organisms with long lasting effects. Avoid contamination of any water supply with 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).
9.3C; Harmful to terrestrial vertebrates [birds]

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 Acetochlor, Dichlormid, and Metribuzin.

UN Hazard Class: 9.
Packing Group: III

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.
The approved handler must have the product under personal control at all times or it must be locked up. However 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. Note: The approved handler can be in contact by the use of a cellphone.

RECORD KEEPING: Record keeping is required if more than 3 Kg is used within 24 hours in a place where the substance is likely to enter 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.
ERMA Approval Code: HSR000944
See the ERMA Website for more details: www.ermanz.govt.nz

ACVM Pesticide Number: P7194

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.