

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

JAZZ

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

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Metribuzin	21087-64-9	< 46%	Class 6, 9.
Other Inerts		<6%	
Propylene Glycol	57-55-6	<5%	
Water	7732-18-5	44%	

3. HAZARDS IDENTIFICATION:

Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact.
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.
Toxic to terrestrial vertebrates [birds].
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: 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: Drink one or two glasses of water and induce vomiting by touching the back of the throat. Seek medical advice. Do not induce vomiting or give anything by mouth to an unconscious person.
NOTES TO DOCTOR: Treat Symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not Applicable.
FLAMMABLE LIMITS: Not Applicable.
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
THERMAL DECOMPOSITION PRODUCTS: Oxides of carbon and sulphur and nitrogen.
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.
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 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: 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: Cream or tan liquid with mild characteristic odour.

BOILING POINT:	100°C.	pH:	6.0 to 7.
DENSITY:	1.100.	SETTING POINT:	<-5°C.
DECOMPOSITION TEMP:	above 100 °C.	AUTOIGNITION TEMP:	Not Applicable.
FLASHPOINT:	Not applicable	VAPOUR DENSITY:	Not Available.
EXPLOSION PROPERTIES:	Not Applicable.	VAPOUR PRESSURE:	Not Available.
SOLUBILITY:	1200 ppm in water @ 20°C.		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	logP 1.6 pH 5.6.		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Sustained temperatures above 50°C. Hydrolysis and or recrystallisation may occur.

MATERIALS TO AVOID: Strong acids or bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products that may occur are amines, methyl mercaptans and ultimately oxides of carbon, sulphur and nitrogen.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 Rat: 4000 mg/Kg [by calculation].

ACUTE DERMAL: LD50 Rat: >20,000 mg/Kg [by calculation].

ACUTE INHALATION:

OTHER TOXICITY INFORMATION: 6.1D; Harmful - May be harmful if swallowed, inhaled or absorbed through the skin.
6.5B; Harmful - May cause sensitiation from prolonged skin contact, avoid skin contact.
6.9B; Harmful - May cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Very toxic to fish. LD50 (96 hr) Rainbow Trout : 64 to 76 mg/L.
Soil Toxicity: Very toxic to soil environment.
Terrestrial Vertebrates - Birds: Toxic to birds. LD50 Japanese quail : 168 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.
9.2A; 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).
9.3B; Toxic 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 Hazard Class:	9.
UN Number:	3082	Packing Group:	III
Hazchem Code:	2X		
Additional Information:	Contains Metribuzin.		

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.

See the ERMA Website for more details: www.ermanz.govt.nz
ERMA Approval Code: HSR000530.
ACVM Pesticide Number: P005836.

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.