

Material Safety Data Sheet

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

PRODUCT NAME: **OMBRE**
MANUFACTURER: Zelam Ltd
SUPPLIER NAME: Zelam Ltd
SUPPLIER ADDRESS: 13-15 Hudson Rd, Bell Block, New Plymouth, New Zealand
SUPPLIER PHONE: +64 6 7559234 SUPPLIER FAX: +64 6 7551174
EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PHONE: +64 3 353 0199
CHEMICAL FAMILY: Chloroacetanilide and isoxazolidinone USE: Herbicide

2. HAZARDS IDENTIFICATION:

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.
6.5B: Harmful - may cause skin sensitization from prolonged skin contact. Avoid skin contact.
6.7B: Harmful - suspected of causing cancer.
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.
9.1A: Very Toxic to fish with long lasting effects. Avoid contamination of any water supply with this product or empty container.
9.2A: Very toxic to the soil environment.
9.3C: Harmful to terrestrial vertebrates [birds]
Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Alachlor	15972-60-8	< 40%	
Clomazone	81777-89-1	<4%	
Inerts		Balance	

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: 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: Avoid inhalation of spray or mists which are likely to be irritating. Remove to a source of fresh air and seek medical advice.

INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.

NOTES TO DOCTOR: No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Non-flammable HAZCHEM CODE: 2X
FLAMMABLE LIMITS: Not applicable.
EXTINGUISHING MEDIA: Foam, Carbon dioxide, Dry chemical or Water spray (fog).
THERMAL DECOMPOSITION PRODUCTS: Vapours may be toxic.
SPECIAL FIRE FIGHTING METHODS: Self contained breathing apparatus required. Do not allow contaminated run-off to enter drains.
UNUSUAL FIRE OR EXPLOSION HAZARDS:

6. ACCIDENTAL RELEASE MEASURES:

Spills may be slippery and should be cleaned up immediately. Clear area of unnecessary personnel. Use appropriate protective equipment.
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 at an approved disposal facility 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.
Wear eye protection. Impervious gloves should be worn at all times. Wear other 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 (TEL, or EELs) have been specifically assigned for this product.
EYE PROTECTION: Chemical goggles or face shield where splash may occur.
RESPIRATORY PROTECTION: Not normally required. Exceptions: during the formation of mists or aerosols or in the case of fire.
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: General (mechanical) room ventilation is considered satisfactory. Use in a well ventilated area.
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.

Material Safety Data Sheet

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Tan liquid		
BOILING POINT:	Not available.	pH:	7 - 8.5
DENSITY:	1.12	SETTING POINT:	Not available.
DECOMPOSITION TEMP:	Not available.	AUTOIGNITION TEMP:	Not applicable.
FLASHPOINT:	Not applicable.	VAPOUR DENSITY:	Not available.
EXPLOSION PROPERTIES:	Not applicable.	VAPOUR PRESSURE:	2.1 mPa @25 °C [Alachlor]
SOLUBILITY:	Miscible in water.		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Kow logP = 3.09		[Alachlor technical].

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	Product is stable under normal temperatures and pressures.
MATERIALS TO AVOID:	Avoid strong acids, strong bases, strong oxidising agents.
HAZARDOUS DECOMPOSITION	Thermal decomposition may release ammonia, carbon monoxide and carbon dioxide and oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 Rats: 1771 mg/kg BW (by calculation).
ACUTE DERMAL:	
ACUTE INHALATION:	LC50 Rats [4hr]: 2.23 mg/litre air (by calculation).
OTHER TOXICITY INFORMATION:	
	Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
	- may cause eye irritation. Avoid contact with eyes.
	- may cause skin sensitization from prolonged skin contact. Avoid skin contact.
	- suspected of causing cancer.
Toxic	- may cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) Rainbow trout: 2.23 mg/L (by calculation).
Soil Toxicity: LC50 Eisenia foetida; 68.4 mg/kg dry soil (by calculation).
Terrestrial Vertebrates - Birds: LD50 Bobwhite quail: 3284 mg/kg BW (by calculation).

Very Toxic to fish with long lasting effects. Avoid contamination of any water supply with this product or empty container.
Very toxic to the soil environment.
Harmful to terrestrial vertebrates [birds]

13. DISPOSAL CONSIDERATIONS:

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in a suitable landfill. Dispose of product only by using according to this label, or at an approved disposal facility. Avoid contamination of any water supply or stream with product or empty container.

14. TRANSPORT INFORMATION:

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Alachlor & Clomazone)		
UN Number:	3082	UN Hazard Class:	9
Packing Group:	III	Hazchem Code:	2X

Additional Information: Do not carry more than 1 litre 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:

- the product is applied in a wide dispersive manner; or
- 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.

Ombre shall NOT be applied onto or into water.

RECORD KEEPING: A written record of each application or discharge must be kept where -

- members of the public may lawfully be present; or
- 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.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR100912 See <www.epa.govt.nz> for controls.
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P009209 See <www.nzfsa.govt.nz> for registration conditions.

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.