

# Material Safety Data Sheet

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

PRODUCT NAME: **Oxy 500 SC**  
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: Diphenyl Ether USE: Pre and post emergence herbicide

## 2. HAZARDS IDENTIFICATION:

6.3B; Harmful - may cause skin irritation. Avoid contact with skin.  
6.4A; Harmful - may cause eye irritation. Avoid contact with eyes.  
6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.  
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]  
Refer to Section 15 for NZ EPA Requirements.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
OXYFLUORUFEN	42874-03-3	< 50%	R50/53, S60, 61
Inerts		<10%	
Water		Balance	

## 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. Seek medical attention.  
NOTES TO DOCTOR: No specific antidote. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable. HAZCHEM CODE: 2 X  
FLAMMABLE LIMITS: Not applicable.  
EXTINGUISHING MEDIA: Foam, Carbon dioxide, Dry chemical or Water spray (fog).  
THERMAL DECOMPOSITION PRODUCTS: Irritating vapour, Oxides of nitrogen & carbon.  
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:

Harmful - Keep out of reach of children.  
Store in original container, tightly closed away from food, food related materials, animal feedstuffs, seed or fertilizer. Store in accordance with NZS 8409 - Management of Agrichemicals.  
Wear eye protection and 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 (WES, TEL, or EELs) have been specifically assigned for this product.  
EYE PROTECTION: Chemical goggles or face shield where splash may occur.  
RESPIRATORY PROTECTION: 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: PVC-coated gloves. Avoid skin contact.  
VENTILATION: No appreciable vapour pressure at normal ambient temperatures. 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.

# Material Safety Data Sheet

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	White to cream liquid.		
BOILING POINT:	Not available	pH:	5 - 6
DENSITY:	1.19	SETTING POINT:	Not available
DECOMPOSITION TEMP:	>240°C.	AUTOIGNITION TEMP:	Not applicable.
FLASHPOINT:	Not applicable.	VAPOUR DENSITY:	Not available
EXPLOSION PROPERTIES:	Not applicable	VAPOUR PRESSURE:	Negligible at 20°C.
SOLUBILITY:	Insoluble in water 0.1116 mg/L. Soluble in most organic solvents.		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Kow log P = 4.47.		

## 10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	None.
MATERIALS TO AVOID:	None
HAZARDOUS DECOMPOSITION	Irritating vapours in the case of fire.

## 11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 rats and dogs > 5000 mg/kg [Oxyfluorfen tech]
ACUTE DERMAL:	LD50 rabbits >10000 mg/kg [Oxyfluorfen tech]
ACUTE INHALATION:	LC50 > 5.4 mg/L [Oxyfluorfen tech]
OTHER TOXICITY INFORMATION:	
	May cause skin and eye irritation. Avoid contact with skin or eyes.
	May cause organ [liver] damage from repeated oral exposure at high doses.

## 12. ECOLOGICAL INFORMATION:

Aquatic Toxicity:	Very toxic to fish. LC50 (96 hr) Rainbow trout : 0.41 mg/L [Oxyfluorfen tech]
Soil Toxicity:	Soil DT50; 292 days.
Terrestrial Vertebrates - Birds:	Not toxic to birds.
Terrestrial Invertebrates - Bees:	Not toxic to bees.

Very toxic to fish/aquatic organisms with long lasting effects. Avoid contamination of any water supply with this product or empty container.

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 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 an approved 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 (Oxyfluorfen)		
UN Number:	3082	UN Hazard Class:	9
Packing Group:	III	Hazchem Code:	2X
Additional Information:			

## 15. REGULATORY INFORMATION:

Oxy 500 SC shall NOT be applied onto or into water and shall be applied using ground based methods only.

APPROVED HANDLER: An approved handler is required when the substance is applied:

- In a widely dispersive manner.
- By a commercial contractor.

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.

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.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR100031 See <www.epa.govt.nz> for controls.  
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P007996 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.