

Material Safety Data Sheet

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

PRODUCT NAME: **CENTURION XTRA**
MANUFACTURER: Arysta LifeScience
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: Cyclohexanedione oxime USE: Herbicide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Aromatic Hydrocarbons	64742-94-5	534 g/l	
Clethodim	99129-21-2	360 g/l	
Non-hazardous ingredients		Balance	

3. HAZARDS IDENTIFICATION:

3.1D; Warning - combustible liquid.
6.1E; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
6.3A; 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 [liver] damage from repeated oral exposure at high doses.
9.1B; 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].
9.3C; Harmful to terrestrial vertebrates [birds]
Refer to Section 15 for NZ EPA 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: Immediately flush with plenty of water while removing contaminated clothing. DO NOT scrub the skin. Continue washing with soap and water 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: The low viscosity of this product it may directly enter the lungs if swallowed or if subsequently vomited. Once in the lungs, it is very difficult to remove and can cause severe injury or death.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: >61 °C HAZCHEM CODE: 2X
FLAMMABLE LIMITS: No data
EXTINGUISHING MEDIA: Carbon dioxide, Dry chemical, Foam, or Water spray (fog).
THERMAL DECOMPOSITION PRODUCTS: Oxides of sulphur, nitrogen and 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:

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.

7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.
Store in original container in a cool, well ventilated place, away from direct sunlight, extreme heat and ignition sources. Keep 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 (WES, TEL, or EELs) have been specifically assigned for this product.
EYE PROTECTION: Avoid contact with eyes. Wear a face shield or full chemical workers goggles when there is a risk of a splash.
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. Wash protective clothing daily after work.
VENTILATION: Transfer or mix with adequate ventilation.
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.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Brown liquid	pH:	4 - 7
BOILING POINT:	Not available	SETTING POINT:	Not available
DENSITY:	0.98	AUTOIGNITION TEMP:	Not available
DECOMPOSITION TEMP:	Not available	VAPOUR DENSITY:	Not available
FLASHPOINT:	>61 °C	VAPOUR PRESSURE:	Not available
EXPLOSION PROPERTIES:	Not available		
SOLUBILITY:	Emulsifies in water		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not available		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	Avoid strong acids, strong bases, strong oxidising agents.
MATERIALS TO AVOID:	None
HAZARDOUS DECOMPOSITION	Product is stable under normal temperatures and pressures.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 Rats: 1360 mg/Kg [Clethodim tech]
ACUTE DERMAL:	
ACUTE INHALATION:	
OTHER TOXICITY INFORMATION:	
6.1E;	Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
6.3A;	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 [liver] damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) rainbow trout; 17 mg/L
Soil Toxicity: LC50 [14d] Eisenia foetida; 210 mg/kg dry soil [Clethodim tech].

- 9.1B; 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 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 UN Hazard Class: 9.
UN Number: 3082 Packing Group: III
Hazchem Code: 2X
Additional Information: Contains Clethodim
Do not carry more than 1 L of this product on a passenger service vehicle
This product requires segregation from certain other classes of Dangerous Goods. Check the latest LTSA DG Rule 45001 for additional information.

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 shall NOT be applied onto or into water.

RECORD KEEPING: A written record of use is required if 3 kg or more of the product is used within 24 hours in a place where:
a) public may lawfully be present; or
b) the substance is likely to enter air or water and leave the place 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: HSR100646 See <www.epa.govt.nz> for controls.
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P008655 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.