

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

### **CENTURION PLUS**

SUPPLIER NAME: Zelam Limited  
MANUFACTURER: Arysta Lifescience Corporation  
SUPPLIER ADDRESS: Hudson Road, Bell Block, New Plymouth, New Zealand  
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CHEMICAL FAMILY: Cyclohexanedione oxime USE: Herbicide

## 2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Clethodim	99129-21-2	120 g/l	
Inerts		Balance	
Liquid Hydrocarbon	64742-94-5	880 g/l	

## 3. HAZARDS IDENTIFICATION:

3.1D; Warning - combustible liquid.  
8.3A; Danger - this product is corrosive and may cause eye damage.  
6.3A; Harmful - may cause skin irritation. Avoid contact with skin.  
6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.  
9.1C; Harmful 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.

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: 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: No specific antidote. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES:

FLASHPOINT: 80 °C HAZCHEM Code: 2 [Z]  
FLAMMABLE LIMITS: Not available  
EXTINGUISHING MEDIA: Water spray (fog), Foam, Carbon dioxide or Dry chemical.  
THERMAL DECOMPOSITION PRODUCTS: Oxides of sulphur, nitrogen and carbon, and toxic chlorine compounds.  
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:

Store in a well ventilated place in tightly closed original containers. Keep away from food stuffs.  
Keep from extreme heat and open flames.  
Wear personal protective equipment appropriate to the situation when handling product.  
Harmful - Keep out of reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: Not established by OSHA.  
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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: Amber liquid  
BOILING POINT: Decomposes prior to reaching boiling point pH: 3  
DENSITY: 0.93 SETTING POINT: Not Available  
DECOMPOSITION TEMP: Not Available AUTOIGNITION TEMP: Not Available  
FLASHPOINT: 80 °C VAPOUR DENSITY: Not Available  
EXPLOSION PROPERTIES: Not Explosive VAPOUR PRESSURE: >10-7 Pa at 25 °C  
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 PRODUCTS: Product is stable under normal temperatures and pressures.

### 11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: LD50 Rats: >5000 mg/Kg  
ACUTE DERMAL: LD50 Rats: >2000 mg/Kg  
ACUTE INHALATION: LC50 Rats: >5.51 mg/L  
OTHER TOXICITY INFORMATION: 6.3A-; Harmful - may cause skin irritation. Avoid contact with skin.  
8.3A; Danger - this product is corrosive and may cause eye damage.  
6.9B; Harmful - may cause organ 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].  
9.1C; Harmful 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.

### 13. DISPOSAL CONSIDERATIONS:

Dispose of this product only by using according to the label. Triple rinse container and add rinsate to spray tank. Crush or puncture cleaned, empty containers and 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: Not Classified as Dangerous Goods for Transport UN Hazard Class: N/A  
UN Number: N/A Packing Group: N/A  
Hazchem Code: 2 [Z]  
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.  
c) applied directly onto or into water.  
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.  
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.

Registered pursuant to the ACVM Act 1997. See <www.nzfsa.govt.nz/acvm> for registration conditions.  
ACVM Pesticide Number: P05650  
Approved pursuant to the HSNO Act 1996. See <www.erna.govt.nz> for controls.  
ERMA Approval Code: HSR000660

### 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.