

# SAFETY DATA SHEET

## CENTURION<sup>®</sup> Xtra Herbicide

Date of Issue: 24 February 2025

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical name of active ingredient(s):** Clethodim

**Recommended use:** Herbicide

**Supplier:** UPL New Zealand Limited  
 PO Box 51584, Pakuranga  
 Auckland  
 Phone 0800 100 325  
 www.upl-ltd.com/nz  
 0800 CHEM CALL (0800 243 622) 24 Hours

**Emergency telephone number:**

### 2. HAZARDS IDENTIFICATION



**Hazard Classification:**

**GHS Classification:**

**Signal Word: DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Flammable liquids Cat 4	H227	Combustible liquid.
Skin corrosion/irritation – Cat 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Cat 2A	H319	Causes serious eye irritation.
Aspiration hazard Cat 1	H304	May be fatal if swallowed and enters airways.
STOT - repeated exposure Cat. 2	H373	May cause liver damage from prolonged or repeated exposure.
Aquatic Chronic Cat 2	H411	Toxic to aquatic life with long lasting effects.
Hazardous to soil organisms. Hazardous to terrestrial vertebrates.		

#### PRECAUTIONARY STATEMENTS PREVENTION

P102 - Keep out of reach of Children.  
 P103 - Read label before use.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P260 - Do not breathe vapours/spray.

P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P273 - Avoid release to the environment.  
Do not apply directly into or onto water.  
Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.  
Records of use must be kept

#### **RESPONSE**

P370+P378 - In case of fire: Use carbon dioxide, dry chemical, or foam to extinguish.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P331 - Do NOT induce vomiting.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice.  
P302+P352 - IF ON SKIN (or hair): Wash with plenty of water.  
P321 - Specific treatment - see first aid measures.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P314 - Get medical advice if you feel unwell.  
P391 - Collect spillage.

#### **STORAGE**

P405 - Store locked up.  
P403 - Store in a well-ventilated place.

#### **DISPOSAL**

P501 - Dispose of contents/container in accordance with local regulations.  
**Product disposal:** Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.  
**Container disposal:** Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery® (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose. The method of application of the substance shall be limited to ground based application only.

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### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Substance/preparation Information on hazardous ingredients**

<b>Common name</b>	<b>CAS No</b>	<b>%</b>
Clethodim	99129-21-2	360 gm/L
Aromatic Hydrocarbons	64742-94-5	534 gm/L
<b>Ingredients determined to be nonhazardous</b>		<b>Balance</b>

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### **4. FIRST-AID MEASURES**

#### **Description of necessary first aid measures:**

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

#### **General information:**

#### **First-aid measures**

<b>Inhalation:</b>	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 immediately.
<b>Ingestion:</b>	Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
<b>Skin contact:</b>	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 re-use. If a large area is affected seek medical assistance.
<b>Eye contact:</b>	Hold eyelids open and immediately flush eyes with flowing water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get prompt medical attention.
<b>First Aid Facilities:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Notes to a physician:</b>	Due to 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

<b>HAZCHEM Code:</b>	2X
<b>Type of Hazard:</b>	Combustible product at elevated temperature.
<b>Extinguishing media:</b>	Carbon dioxide, Dry chemical, Foam, or Water spray (fog). <u>Unsuitable:</u> Water in a jet.
<b>Hazardous thermal (de)composition products:</b>	Oxides of sulphur, nitrogen and carbon.
<b>Protection of fire-fighters:</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific methods:</b>	Vapours may be toxic. Keep up-wind. Do not allow washings to reach sewage or effluent systems.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately.
<b>Environmental precautions:</b>	Prevent from entering drains, waterways or sewers.
<b>Methods for cleaning up:</b>	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. Prevent runoff into waterways or drains. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when 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. This product shall NOT be applied onto or into water.
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TRACKING: Is not required.

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if more than 3L is applied within 24 hours in a place where the product is likely to enter air or water and leave the place.

The information must be kept for a minimum of three [3] years.

Keep out of reach of children.

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.

**Storage:**

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.

**Packaging materials:**

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace Exposure Guidelines

**Exposure Standards:**

No exposure limits (WES, TEL, or EELs) have been specifically assigned for this product.

### Engineering measures

**Exposure control measures:**

Transfer or mix with adequate ventilation.

### Personal Protective Equipment

**Detail specifications for equipment:**

**Respiratory system:**

Respiratory protection: Not normally required. Exceptions: in the case of fire or during the formation of mists or aerosols.

**Skin and body:**

Protective clothing: When handling wear chemical resistant gloves, overalls and boots. Wash protective clothing daily after work.

**Hands:**

**Eyes:**

Eye protection: Avoid contact with eyes. Wear a face shield or full chemical workers goggles.

**General hygiene:**

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

<b>Appearance (physical state, colour, etc.):</b>	Brown liquid.
<b>Odour:</b>	Mild odour.
<b>Odour threshold:</b>	NA
<b>pH:</b>	4 - 7
<b>Melting point/freezing point:</b>	NA
<b>Initial boiling point and boiling range:</b>	NA
<b>Flash point:</b>	>61°C
<b>Flammability (solid, gas):</b>	Combustible liquid.
<b>Upper/lower flammability or explosive limits:</b>	NA
<b>Volatile Component:</b>	High.
<b>Vapour pressure:</b>	NA
<b>Vapour density:</b>	NA
<b>Relative density:</b>	.98
<b>Solubility(ies):</b>	Emulsifies in water

<b>Partition coefficient: n-octanol/water:</b>	log Pow: 4.21 Remarks: estimate
<b>Auto-ignition temperature:</b>	NA
<b>Decomposition temperature:</b>	NA
<b>Kinematic viscosity:</b>	
<b>Particle characteristics:</b>	

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of use.
<b>Conditions to avoid:</b>	Extreme heat, humid air and water.
<b>Materials to avoid:</b>	Decomposes by reaction with strong acids.
<b>Hazardous Decomposition Products:</b>	May include nitrogen, sulphur and carbon oxides. Heating or fire can release toxic gas.
<b>Hazardous polymerization:</b>	

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity – Oral:</b>	LD <sub>50</sub> Rats: 1360 mg/Kg [Clethodim tech]
<b>Acute toxicity - Dermal:</b>	LD <sub>50</sub> (Rabbit): > 5,000 mg/kg
<b>Acute toxicity – Inhalation:</b>	LC <sub>50</sub> (4h) Rats: >3.9mg mg/L [total aerosol]
<b>Skin irritation:</b>	Causes skin irritation.
<b>Eye irritation:</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization:</b>	May cause respiratory irritation. Not a skin sensitizer (guinea pigs)
<b>Germ cell mutagenicity:</b>	Clethodim was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in-vivo tests.
<b>Carcinogenicity:</b>	Clethodim was not carcinogenic in lifetime feeding studies in rats and mice.
<b>Reproductive toxicity:</b>	Clethodim did not cause reproductive toxicity in a two-generation study in rats.
<b>Aspiration hazard</b>	
<b>STOT-single exposure:</b>	NA
<b>STOT-repeated exposure:</b>	May cause liver damage from prolonged or repeated exposure.
<b>Other toxicity information:</b>	Solvents may degrease the skin.

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## 12. ECOLOGICAL INFORMATION

### Ecology – general:

<b>Hazardous to the aquatic environment, short-term (acute):</b>	NA
<b>Classification procedure - Hazardous to the aquatic environment, short-term (acute):</b>	NA
<b>Hazardous to the aquatic environment, long-term (chronic):</b>	Toxic to aquatic life with long lasting effects.
<b>Classification procedure - Hazardous to the aquatic environment, long-term (chronic):</b>	LC <sub>50</sub> (96h) rainbow trout; 17 mg/L
<b>Toxicity to terrestrial vertebrates:</b>	Hazardous to terrestrial vertebrates.
<b>Toxicity to terrestrial invertebrates:</b>	NA
<b>Persistence and degradability:</b>	NA
<b>Bioaccumulative potential:</b>	NA

Partition coefficient n-octanol/water (Log Kow): NA  
Mobility in soil: Hazardous to soil organisms.  
LC<sub>50</sub> [14d] *Eisenia foetida*; 210 mg/kg dry soil [Clethodim tech].  
Ozone:  
Other adverse effects:

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### 13. DISPOSAL CONSIDERATIONS

**Methods of disposal:** Ideally, the product should be used for its intended purpose. Ensure container is completely empty.  
Triple rinse containers; add rinsate to the spray tank.. Recycle through the Agrecovery® programme. If this is not possible, crush and bury in landfill.



**Empty container precautions:** Avoid contamination of any water supply with chemical or empty container.

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### 14. TRANSPORT INFORMATION - International transport regulations

**UN number:** 3082  
**Class or Division:** 9  
**Subsidiary Class:**  
**Packing Group:** III  
**Marine Pollutant:** Yes  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Clethodim)

**INTERNATIONAL AIR  
TRANSPORT ASSOCIATION  
(IATA):**

**Other 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.

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### 15. REGULATORY INFORMATION

**ACVM Registered Number:** P008655  
**HSNO Approval Code:** HSR100646

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### 16. OTHER INFORMATION

**Additional information:**  
**Original Issue Date:**  
**Revision Date:** 24 February 2025  
**Replaces:** ES610

**Disclaimer EXCLUSION OF LIABILITY: PLEASE READ**

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