



SAFETY DATA SHEET

CENTURION® Xtra

Date of Issue: 24 September 2021

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Clethodim

Recommended use: Herbicide - A selective post-emergent herbicide for grass weed control in broadleaf crops and forestry.

Supplier: UPL New Zealand Limited
PO Box 51584, Pakuranga
Auckland
Phone 0800 100 325
www.upl-ltd.com/nz

Emergency telephone number: 0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION



Hazard Classification: 3.1D, 6.1E, 6.3A, 6.4A, 6.9B, 9.1B, 9.2A, 9.3C
Required identification Details: Signal Word: **WARNING**

Keep out of reach of Children.
Read label before use.

Combustible liquid.
May be harmful if swallowed.
Causes skin and eye irritation.
May cause liver damage from repeated oral exposure at high doses.
Toxic to aquatic organisms with long lasting effects.
Very toxic to the soil environment.
Harmful to terrestrial vertebrates.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

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

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

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 immediately.
Ingestion:	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.
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. If a large area is affected seek medical assistance.
Eye contact:	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.
First Aid Facilities:	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Notes to a physician:	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

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately.
Environmental precautions:	Prevent from entering drains, waterways or sewers.
Methods for cleaning up:	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

Handling:	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. 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. This product must not be applied onto or into water. Keep out of reach of children. Wear eye protection. Impervious gloves should be worn at all
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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:

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colour, Odour.

Brown liquid, mild odour.

pH:

4 - 7

Vapour Pressure:

Not available

Boiling Point:

Not available

Flash Point:

>61°C

Freezing/melting point:

Solubility:

Emulsifies in water

Specific Gravity/Density:

.98

Auto-ignition:

Not available

Information for flammable material:

Viscosity:

Flammable Limits:

No data.

Volatile Component:

High.

Octanol/water partition coefficient:

log Pow: 4.21 Remarks: estimate

Explosive Properties:

Oxidation Properties:

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of use.

Conditions to avoid:

Extreme heat, humid air and water.

Materials to avoid:

Decomposes by reaction with strong acids.

Hazardous Decomposition

Products: May include nitrogen, sulphur and carbon oxides. Heating or fire can release toxic gas.

Hazardous polymerization:

11. TOXICOLOGICAL INFORMATION

Clethodim:

Acute toxicity – Oral: LD₅₀ Rats: 1360 mg/Kg [Clethodim tech]

Acute toxicity - Dermal: LD₅₀ (Rabbit): > 5,000 mg/kg

Acute toxicity – Inhalation: LC₅₀ (4h) Rats: >3.9mg mg/L [total aerosol]

Skin irritation: Moderate (Rabbits)

Eye irritation: Product Serious eye damage/irritation

Sensitization: Not a skin sensitizer (guinea pigs)

Respiratory irritation: May cause respiratory irritation

Ingestion: Toxic

Chronic toxicity

Carcinogenicity: Clethodim was not carcinogenic in lifetime feeding studies in rats and mice.

Mutagenicity: Clethodim was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in-vivo tests.

Reproduction toxicity: Clethodim did not cause reproductive toxicity in a two-generation study in rats.

Other toxicity information: Solvents may degrease the skin.

12. ECOLOGICAL INFORMATION

Aquatic LC₅₀ (96h) rainbow trout; 17 mg/L

Soil toxicity: LC₅₀ [14d] Eisenia foetida; 210 mg/kg dry soil [Clethodim tech].

Other: 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].

Bioaccumulation:

Degradability:

Mobility:

13. DISPOSAL CONSIDERATIONS

Methods of disposal:



Ideally, the product should be used for its intended purpose.

Triple rinse containers; add rinsate to the spray tank.

Offer the container for recycling through the Agrecovery programme, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.

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

14. TRANSPORT INFORMATION - International transport regulations

UN number: UN3082

Hazchem code: 2X

Class or Division: 9

Subsidiary Class:
Packing Group: III
Marine Pollutant: Yes
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
IERG Number : 47
IMO Marine Pollutant: Yes
IMDG EMS: F-A, S-F
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.

15. REGULATORY INFORMATION

ACVM Registered Number: P008655
HSNO Approval Code: HSR100646
Any person purchasing, handling or disposing of this product must be suitably qualified.

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 3L 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.

16. OTHER INFORMATION

Additional information:

Original Issue Date:
Revision Date: 24 September 2021
Replaces: ES493

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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