



SAFETY DATA SHEET

CENTURION[®] Xtra

Date of Issue: 20 December 2018

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: Etec Crop Solutions, an Arysta LifeScience Group Company.
PO Box 51584
Pakuranga, Auckland
Phone 0800 100 325

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

2. HAZARDS IDENTIFICATION

Hazard Classification: WARNING
3.1D: combustible liquid
6.1E: acute toxicant
6.3A: skin irritant
6.4A: eye irritant
6.9B: target organ toxicant
9.1B: aquatic toxicant
9.2A: Soil toxicant
9.3C: terrestrial vertebrates toxicant

Required identification Details:

Combustible liquid.

Toxicity

May be harmful if swallowed or inhaled

May cause skin irritation.

May cause eye irritation.

May cause organ [liver] damage from repeated oral exposure at high doses.

Ecotoxicity

Toxic to fish/aquatic organisms with long-lasting effects.

Very Toxic to the soil environment. [Selective herbicide].

Harmful to terrestrial vertebrates [birds]

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 non-hazardous		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.

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:

Never give anything by mouth to an unconscious person
If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention immediately .

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

Extinguishing media :

Carbon dioxide, Dry chemical, Foam, or Water spray (fog).
Unsuitable: 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.

Other Information:

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.
Spills and Disposal:	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

Safe 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 times. Wear other personal protective equipment appropriate to the situation when handling product. Wash protective clothing daily after work.
Conditions for safe storage, including any incompatibilities:	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.
Other Information	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

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

Appropriate engineering controls:	Transfer or mix with adequate ventilation.
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Personal Protective Equipment

Detail specifications for equipment:

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

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

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

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:	Liquid
Colour:	Brown
Odour:	mild
Volatile Component:	High
Vapour Pressure:	Not available
Density:	.98
Boiling Point:	Not available
Solubility in water:	Emulsifies in water
Partition Coefficient: n-octanol/water:	log Pow: 4.21 Remarks: estimate
pH:	4 - 7
Flashpoint:	>61°C
Auto-ignition:	Not available
Flammable Limits:	No data
Other Information:	

10. STABILITY AND REACTIVITY

Chemical Stability:	
Conditions to avoid:	Avoid strong acids, strong bases, strong oxidising agents.
Incompatible Materials:	None
Hazardous decomposition Products:	Product is stable under normal temperatures and pressures.
Hazardous polymerization:	
Specific Data:	
Hazardous reactions :	

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]
Ingestion:	Toxic
Skin irritation:	Moderate(Rabbits)
Skin Sensitisation:	Not a skin sensitizer (guinea pigs)
Eye irritation:	Product Serious eye damage/irritation
Respiratory irritation:-	May cause respiratory irritation
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

Reproductive Toxicity-Clethodim did not cause reproductive toxicity in a two-generation study in rats

Subchronic/Chronic Toxicity:

Other toxicity information : Solvents may degrease the skin

12. ECOLOGICAL INFORMATION

Acute Toxicity – Fish:

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

Product disposal :

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.

Container disposal:

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

14. TRANSPORT INFORMATION

UN number:

3082

Class or Division:

9

Hazchem Code:

2X

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:

Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P008655 See <www.nzfsa.govt.nz> for registration conditions.

HSNO Approval Code:

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR100646 See <www.epa.govt.nz> for controls.

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**IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE**

24Hr Toll free Emergency No: 0800 651 911

24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

EXCLUSION OF LIABILITY: PLEASE READ

This Safety Data Sheet is based on the most recent information available. To the extent permitted by law, users of this information accept that neither the manufacturer, Etec Crop Solutions Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.