

TEBURON 500 SC**SAFETY DATA SHEET****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: TEBURON 500 SC
Other identifier: Tebuthiuron 500 SC
Recommended use: Herbicide
Restrictions on use: Agriculture

Supplier: Villa Crop Protection (Pty) Ltd.
PO Box 10413
Aston Manor, 1630, South Africa

Telephone: (011) 396 2233

Fax: (011) 396 4666

Website: www.villacrop.co.za

Emergency telephone numbers:**24 Hr Transport / Spill emergency no:**

Envirosure. +27 31 205 4918

(Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

Griffon Poison Information Centre +27 82 446 8946

(Client: Villa Crop Protection)

Poisoning Emergency telephone numbers:

Griffon Poison Information Centre +27 82 446 8946

Poisons Information Centre +27 861 555 777

Villa Crop Protection Emergency number:**National Safety, Health and Environmental Manager:**

+27 63 698 0668

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Health		
Oral	Acute Tox. 4	H302
Dermal	Acute Tox. 5	H313
	Skin Irrit. 2	H315
Eye	Eye damage 1	H318
Inhalation	Acute Tox. 5	H333
Carcinogenicity	Carc 2	H351
Environment		
Aquatic acute	Aquatic Acute 1	H400
Aquatic chronic	Aquatic Chronic 1	H410

The most important adverse effects:**Physiochemical effects:**

None known

Human health effects:

Causes serious eye damage.

Causes skin irritation.

Suspected of causing cancer.

Label elements:

Signal word: Danger

Hazard statements:

H302: Harmful if swallowed.

H313: May be harmful in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H333: May be harmful if inhaled.

H351: Suspected of causing cancer.

H400: Very toxic to aquatic life.

H413: May cause long lasting harmful effects to aquatic life.

Precautionary statements:

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash skin and eyes thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear impervious rubber gloves and chemical safety goggles.

P302/352: IF ON SKIN: Wash with plenty of water and soap.

P301/310: IF SWALLOWED: Immediately call a POISON CENTER.

P332/313: If skin irritation occurs: Get medical attention.

P362/364: Take off contaminated clothing and wash it before reuse.

P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P308/313: If exposed or concerned: Get medical attention.

P337/313: If eye irritation persists: Get medical attention.

P391: Collect spillage.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local regulations.

Special labelling of certain mixtures:

None known.

Other hazards:

None known.

Toxicity:

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Classification according to GHS: Category 4
Classification according to WHO: Category II
Classification according to GPIC: Category III

Most important symptoms/effects: None known.
Advice to physician: Treat symptomatically and supportively. No specific antidote known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture
Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Tebuthiuron	34014-18-1	50%	Acute tox 4(H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Polyoxyethylene	9002-92-0	< 10%	Acute tox 4(H302) Skin Irrit. 2 (H315) Eye Irrit 1 (H318)
Sodium dodecylbenzenesulfate	25155-30-0	< 5%	Acute tox 4(H302) Skin Irrit. 2 (H315) Eye Irrit 1 (H318)
Tributyl phosphate	126-73-8	< 5%	Acute tox 4(H302) Skin Irrit. 2 (H315) Carc 2 (H351)

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.

Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers.

Specific hazards: i.e. hazards or hazard products arising from combustion

Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later. Avoid pollution of waterways by run-off from the site.

Personal protective equipment: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.

Eyes: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention immediately.**

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

Anticipated acute effects:

Causes serious eye damage.

Anticipated delayed effects: None known.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes. Do not breathe in spray mist or vapours. Ventilate area of spill or leak, especially in contained areas.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified to be very toxic/ toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.

Methods and Materials for Containment: Contain spilled product by diking area with sand or earth. **Methods and Materials for Clean-up:** Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled

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material back in original container. Do not re-use spilled material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

Storage:

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed, in an isolated, dry, cool and well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
HCL	5 ppm	7 mg/m ³	OEL-RL

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational

safety, environmental, fire, and other applicable regulations.

Personal Protective Equipment:

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved air-purifying respirator.

Hand Protection: The use of chemically protective impervious gloves is recommended to prevent against skin contact.

Eye Protection: The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employee must wear appropriate protective impervious clothing; Rubber boots, hat and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance; the employer should provide an eyewash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Rose colour Liquid, Emusifiable concentrate.

Odour: Faint odour.

pH (1% aqueous dilution): 4.0 to 9.0.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not available.

Flammability: Non-flammable.

Upper/lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density/Relative density: 1.134 g/ml @ 20 °C.

Solubility: Not available.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: 2000 to 3000 cps.

10. STABILITY AND REACTIVITY

Chemical Stability: The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.

Reactivity: None known.

Possibility of Hazardous Reactions: Will not occur.

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Conditions to Avoid: Extreme heat or exposure to flames
Incompatible Materials: Strong oxidizers, strong bases, strong reducing agents.
Hazardous Decomposition Products: Alcohols. Carbon monoxide and carbon dioxide may form under burning conditions or with incomplete combustion.

11. TOXICOLOGICAL INFORMATION

Calculated according to GHS.

Oral LD₅₀ (24 h) rat: 660 mg/kg.
Dermal LD₅₀ (24 h) rat >5000 mg/kg.
Inhalation LC₅₀ (4 h) rat 6.9 mg/l.

Skin Irritation/Corrosion: Causes skin irritation.
Eye Damage/Irritation: Causes serious eye damage.
Skin Sensitization: Not available.
Respiratory Sensitization: Not available.
Reproductive cell mutagenicity: Not available.
Carcinogenicity: Suspected of causing cancer.
Reproductive toxicity: Not available.
Specific target organ toxicity – single exposure: Not available.
Specific target organ toxicity – repeated exposure: Not available.
Aspiration hazard: Not available
Chronic Effects (other targets e.g. developmental): Not available.
POTENTIAL ADVERSE EFFECTS:
Inhalation: May be harmful if inhaled.
Skin contact: May cause moderate irritation.
Eye contact: May cause serious eye damage.
Ingestion: May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

This product is harmful to aquatic organisms, may cause long-term effects in the aquatic environment.

ECOTOXICITY DATA:

<u>Fish:</u>		
LC ₅₀ (96 h)	Rainbow trout	144 mg/l.
	Bluegill sunfish	112 mg/l.
<u>Daphnia:</u>		
EC ₅₀ (48 h)		297 ppm
<u>Algae:</u>		
EC ₅₀ (72 h)	<i>Anabaena</i>	4.06 ppm
	<i>Navicula</i>	0.081 ppm
	<i>Selenastrum</i>	0.05 ppm
	<i>Skeletonema</i>	0.05 ppm
<u>Birds:</u>		
Acute oral LD ₅₀	Mallard ducks	
	Bobwhite quail	>500 mg/kg
<u>Bees:</u>		
LD ₅₀ contact		>100 µg/bee.

Plants: In plants, the principal metabolic pathways involve *N*-demethylation and hydroxylation of the *tert*-butyl side-chain.
ENVIRONMENTAL EFFECTS:
Persistence and degradability: Some microbial breakdown occurs in soil, but this is not the predominant mode of degradation. Loss due to photodecomposition and volatilisation is negligible. Half-life in soil is considerably greater in soils with low moisture content, and in high organic soils. Adsorption Freundlich *K* values range from 0.11 in sand (pH 7.7, o.m. 0.5%) to 1.82 in clay loam (pH 6.9, o.m. 2.0%).
Bio-accumulative Potential: Not determined.
Mobility in soil: Not determined.
Other adverse effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.
Container: Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dumpsite, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN Number: 3082
Road Transport ADR/IRD:
Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.
(Tebuthiuron 500 SC)
Maritime Transport IMDG/IMO:
Class: 9
Packaging group: III

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UN Proper Shipping Name: Environmentally Hazardous
 Substance, Liquid, N.O.S.
(Tebuthiuron 500 SC)

Marine Pollutant (Y/N): Yes, Considered a marine
 pollutant.

Air transport IATA/CAO:

Class: 9
 Packaging group: III

UN Proper Shipping Name: Environmentally Hazardous
 Substance, Liquid, N.O.S.
(Tebuthiuron 500 SC)

Special/Environmental Precautions: Wedge drums
 tightly to avoid movement.

Transport in bulk (according to MARPOL 73/78, Annex II
 and the IBC code): Not available.

END OF DOCUMENT

Completed: December 2017
Revised: March 2019
Revision no.: (2)
Next revision date: March 2024

For detailed information on revisions, contact the
 Registration holder.

15. REGULATORY INFORMATION

**Safety, health and environmental
 regulations/legislation for the mixture:**
 OSHA 1993 Regulations for Hazardous Chemical
 Substances.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None.

Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 1, 2, 5, 10, 20, 25, 50 and 200
 litres plastic containers, labelled according to South African
 regulations and guidelines.

Additional H statements (formulants):

Disclaimer: The information on this sheet is not a
 specification; it does not guarantee specific properties.
 The information is intended to provide general guidance as
 to health and safety based upon our knowledge of the
 handling, storage and use of the product. It is not
 applicable to unusual or non-standard uses of the product
 nor where instructions or recommendations are not
 followed. All information is given in good faith but without
 guarantee in respect of accuracy, and no responsibility is
 accepted for errors and omissions or the consequence
 thereof.