

# 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.  
**Co. Reg. No.:** 1992/002474/07  
 PO Box 10413  
 Aston Manor, 1630, South Africa

**Telephone:** (011) 3962233  
**Fax:** (011) 3964666

**Website:** [www.villacrop.co.za](http://www.villacrop.co.za)

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



**Signal word:** Danger.

**Hazard statements:**

- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H351: Suspected of causing cancer.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statements:**

- P203: Obtain, read, and follow all safety instructions before use.
- P264: Wash hands and face thoroughly after handling.
- P264+P265: Wash hands thoroughly after handling. Do not touch eyes.
- P270: Do not eat, drink, or smoke when using this product.
- P273: Avoid release into the environment.
- P280: Wear impervious rubber gloves and boots, protective clothing, and chemical safety goggles.
- P301+P317: IF SWALLOWED: Get medical help.
- P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
- P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P317: Get medical help.
- P318: IF exposed or concerned, get medical advice.
- P330: Rinse mouth.
- P332+P317: If skin irritation occurs: get medical help.
- P362+P364: Take off contaminated clothing and wash it before reuse.
- P391: Collect spillage.
- P405: Store locked up.
- P501: Dispose of content/container to suitable landfill in accordance with local regulations.

**Special labelling of certain mixtures:**

None known.

**Other hazards:**

## 2. HAZARDS IDENTIFICATION

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

**The most important adverse effects:**

**Physiochemical effects:**

None known

**Human health effects:**

- Harmful if swallowed (Acute Tox. 4).
- Causes serious eye damage. (Eye Dam. 1).
- Causes skin irritation (Skin Irrit. 2).
- Suspected of causing cancer (Carc 2).

**Label elements:**

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None known.

**Toxicity:**

Classification according to GHS: Category 4.

### 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) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)
Sodium dodecylbenzenesulfate	25155-30-0	< 5%	Acute tox 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)
Tributyl phosphate	126-73-8	< 5%	Acute tox 4 (H302) Skin Irrit. 2 (H315) Carc 2 (H351)

### 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, causes skin irritation and harmful if swallowed.

**Anticipated delayed effects:** Suspected of causing cancer

**Most important symptoms/effects:** None known.

**Advice to physician:** Treat symptomatically and supportively. No specific antidote known.

### 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:** During fire, irritating and possibly toxic gases may be generated by thermal decomposition or 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.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with eyes and skin. 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 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

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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 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 eyes and skin. 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 <sup>3</sup>	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 face shield or 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 e.g., coveralls, rubber boots, hat and equipment to prevent repeated or prolonged skin contact with this product. 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 (reddish) Liquid, suspension 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

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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.

**Conditions to Avoid:** Avoid extreme temperatures, decomposes at temperature greater than 160 to 170°C

**Incompatible Materials:** Strong bases, acids or oxidising material.

**Hazardous Decomposition Products:** Does not decompose under normal use and storage conditions.

## 11. TOXICOLOGICAL INFORMATION

Calculated according to GHS.

**Oral LD<sub>50</sub>** (24 h) rats >750 mg/kg.

**Dermal LD<sub>50</sub>** (24 h) rabbits >10000 mg/kg.

**Inhalation LC<sub>50</sub>** (4 h) rats >7.8 mg/ℓ.

**Skin Irritation/Corrosion:** Causes skin irritation.

**Eye Damage/Irritation:** Causes serious eye damage.

**Skin Sensitization:** Not classified.

**Respiratory Sensitization:** Not classified.

**Reproductive cell mutagenicity:** Not classified.

**Carcinogenicity:** Suspected of causing cancer.

**Reproductive toxicity:** Not classified.

**Specific target organ toxicity – single exposure:** Not classified.

**Specific target organ toxicity – repeated exposure:** Not classified.

**Aspiration hazard:** Not classified.

**Chronic Effects:** None known.

### POTENTIAL ADVERSE EFFECTS:

**Skin contact:** Causes skin irritation.

**Eye contact:** Causes serious eye damage.

**Ingestion:** Harmful if swallowed.

## 12. ECOLOGICAL INFORMATION

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

### ECOTOXICITY DATA:

#### Fish:

LC <sub>50</sub> (96 h)	Rainbow trout	144 mg/ℓ.
	Bluegill sunfish	112 mg/ℓ.
	Goldfish and fathead minnows	>160 mg/ℓ.

#### Daphnia:

EC <sub>50</sub> (48 h)		297 mg/ℓ.
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#### Algae:

EC <sub>50</sub> (72 h)	<i>Anabaena</i>	4.06 mg/ℓ.
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<i>Navicula</i>	0.081 mg/ℓ.
<i>Selenastrum</i>	0.05 mg/ℓ
<i>Skeletonema</i>	0.05 mg/ℓ

#### Birds:

Acute oral LD <sub>50</sub>	Chickens, Mallard ducks, Bobwhite quail	>500 mg/kg
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#### Bees:

LD <sub>50</sub> contact		>100 µg/bee.
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**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:** TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

## 14. TRANSPORT INFORMATION

<b>UN Number:</b>	<b>3082</b>
<b>Road Transport ADR/IRD:</b>	

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Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.  
**(Tebuthiuron 500 g/l)**

**Maritime Transport IMDG/IMO:**  
 Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.  
**(Tebuthiuron 500 g/l)**

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

**Air transport IATA/ICAO:**  
 Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.  
**(Tebuthiuron 500 g/l)**

**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.

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.

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**END OF DOCUMENT**

**Compiled:** December 2017  
**Revised:** July 2022  
**Revision no.:** (4)  
**Next revision date:** July 2027

For detailed information on revisions, contact the Registration holder.

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**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

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**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):**

**H319:** Causes serious eye irritation.

**H412:** Harmful to aquatic life with long-lasting effects.

**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