

# TEBURON 200 GR

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** TEBURON 200 GR  
**Other identifier:** Tebuthiuron 200 GR  
**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

## 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. 3	H316
<b>Environment</b>		
Aquatic acute	Aquatic acute 2	H401
Aquatic chronic	Aquatic chronic 2	H411

### The most important adverse effects:

#### Physiochemical effects:

None known

#### Human health effects:

Harmful if swallowed (Acute Tox. 4).  
 Causes mild skin irritation (Skin Irrit. 3).

#### Label elements:



**Signal word:** Warning.

#### Hazard statements:

H302: Harmful if swallowed.  
 H316: Causes mild skin irritation.  
 H401: Toxic to aquatic life.  
 H411: Toxic to aquatic life with long lasting effects.

#### Precautionary statements:

P264: Wash hands and face thoroughly after handling.  
 P270: Do not eat, drink, or smoke when using this product.  
 P273: Avoid release to the environment.  
 P301+P317: IF SWALLOWED: Get medical help.  
 P330: Rinse mouth.  
 P332+P317: If skin irritation occurs: get medical help.  
 P391: Collect spillage.  
 P501: Dispose of content/container to suitable landfill in accordance with local regulations.

#### Other hazards:

None known.

#### Toxicity:

Classification according to GHS: 4

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance / Mixture:** Mixture

Composition:

Chemical name	CAS	Conc. (m/m%)	Classification EC 1272/2008
Tebuthiuron Technical (96%)	34014-18-1	21.5%	Acute Toxicity 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Morwet EFW	105864-15-1	< 10%	Skin Irritation 2 (H315) Eye irritation 2 (H319)

## 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.

**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 immediately with large amounts of gently flowing cold water or normal saline solution, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes). If irritation persists, get medical attention.

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**Ingestion:** Seek medical attention immediately 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:**

Harmful if swallowed.

**Anticipated delayed effects:**

None known.

**Most important symptoms / effects:**

None known.

**Advice to physician:** Keep patient prone and quiet. Start artificial respiration immediately, if patient is breathing never give anything by mouth to an unconscious person. In serious cases, medical attention should be sought.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Extinguish fire with carbon dioxide, 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:** None known.

**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. Remain upwind of fire. 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 disposal. 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/dust or fumes. 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 as 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:** Contain spilt product by picking up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air. Label containers with the contents and dispose of according to local regulations. Do not place spilt material back in original container. Do not re-use spilt material. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect washings and add to the drums already collected. Do not flush spilt material or washings into drains or waterways. See section 13 for disposal considerations.

## 7. HANDLING AND STORAGE

**Handling:**

**Precautions for safe handling:** Harmful if swallowed. Avoid contact with eyes and skin. 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. Do not store near heat, open flame, sources of ignition or hot surfaces. 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 bags.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration: No occupational exposure limits have been determined for the significant ingredients in this product.

**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

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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 with cartridges / canisters approved for organic vapours.

**Hand Protection:** The use of chemically resistant protective 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:** Employees must wear appropriate protective (impervious) clothing, boots, hat and equipment to prevent repeated or prolonged skin contact with this product.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Blue, Columnar granule.

**Odour:** Odourless.

**Odour threshold:** Not available.

**pH:** 6.0 to 9.0.

**Melting point:** Not available.

**Freezing Point:** Not available.

**Boiling Point:** Not available.

**Flash Point:** Not available.

**Flammability:** Non-flammable.

**Explosive property:** Not explosive.

**Vapour Pressure (mm Hg):** Not available.

**Relative Vapour Density:** Not available.

**Density / Relative density:** 1.82 g/cm<sup>3</sup> at 20°C.

**Solubility in water:** Dispersible.

**n-octanol / water partition coefficient:** Not available.

**Auto-ignition temperature:** Not available.

**Decomposition temperature:** Not available.

**Viscosity:** Not available.

## 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:

No hazardous reactions known.

**Conditions to avoid:** None known.

**Incompatible materials:** None known.

### Hazardous decomposition products:

May decompose and release Nitrogen oxides, Sulfur oxides, Carbon oxides (CO & CO<sub>2</sub>) and Aniline.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY: Calculated.

**Oral LD<sub>50</sub>** 1800 mg/kg (rats)

**Dermal LD<sub>50</sub>** >13600 mg/kg (rabbits)

**Inhalation LC<sub>50</sub>** (4h) > 17.2 mg/l (rats)

**Skin Irritation:** Cause mild skin irritation.

**Eye Damage / Irritation:** Not classified.

**Skin Sensitization:** Not classified.

**Respiratory Sensitization:** Not classified.

**Reproductive cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**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:** Not classified.

### POTENTIAL ADVERSE EFFECTS:

**Skin:** Causes mild skin irritation.

**Ingestion:** Harmful if swallowed.

**Other information:** Not determined.

## 12. ECOLOGICAL INFORMATION

This product is expected to be toxic to aquatic life with long lasting effects.

### ECOTOXICITY DATA:

**Active ingredient:** Tebuthiuron

#### Fish:

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

#### Daphnia:

LC <sub>50</sub>		297 mg/l
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#### Algae:

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

#### Other aquatic spp:

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EC <sub>50</sub>	<i>Lemna</i>	0.135 mg/ℓ
<b>Birds:</b>		
Acute oral LD <sub>50</sub>	Chickens, Mallard ducks, Bobwhite quail	> 500 mg/kg
<b>Bees:</b>		
(LD <sub>50</sub> , µg/bee)		> 100 µg/bee

## ENVIRONMENTAL EFFECTS

**Based on information for the active ingredient.**

**Plants:** In plants, the principal metabolic pathways involve N-demethylation and hydroxylation of the tert-butyl side-chain.

**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 K<sub>f</sub> 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 EMPTY PLASTIC BAG AS FOLLOWS: Turn the bag inside out Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Cut the bag into pieces 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 bag to any other parties that may use it as container for foodstuffs.

## 14. TRANSPORT INFORMATION

**UN Number:** 3077

**Road Transport ADR / ORD:**

Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (**Tebuthiuron 200 g/kg**)

**Maritime Transport IMDG / IMO:**

Class: 9  
 Packaging group: III

UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (**Tebuthiuron 200 g/kg**)

**Marine pollutant (Y/N): YES**

**Air Transport IATA / ICAO:**

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (**Tebuthiuron 200 g/kg**)

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

**Transport in bulk:** Refer to MARPOL 73/78, Annex II and the IBC code.

## 15. REGULATORY INFORMATION

**Safety, health, and environmental regulations / legislation for the mixture:**

OHSA 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 500g, 1, 5, 10, 20, 25, 50 and 100 kg plastic bags labelled according to South African regulations and guidelines.

**Other hazard statements, abbreviations, and explanations:**

**H315:** Causes skin irritation.

**H319:** Causes serious eye irritation.

**H400:** Very toxic to aquatic life.

**H410:** Very toxic to aquatic life with long lasting effects.

**IATA:** International Air Transport Association.

**IBC:** International Bulk Chemical.

**ICAO:** International Civil Aviation Organization.

**IMDG:** International Maritime Dangerous Goods

**IMO:** International Maritime Organization.

**LD<sub>50</sub> value:** The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

**OEL/RL:** Occupational exposure limit-recommended limit.

**TWA:** Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

**ST/STEL:** Short-term exposure limits.

**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

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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**

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For detailed information on revisions, contact the Registration holder.