

Safety Data Sheet (SDS) Bucon 250

According to UN GHS 8th Ed
Revision Date: 20/04/2023

First print date: 20/04/2023
Version: 1.1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: Bucon 250

Common name: Tebuconazole 250G/L EW

Relevant identification uses of the substance and uses advised against:

Identified uses: Fungicide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Details of the Registration Holder:

Enviro Crop Protection (Pty) Ltd, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Contact Details:

Telephone: +27 18 632 0050

Fax: 086 541 7948

Website: www.envirobiochem.co.za

Emergency telephone numbers:

24 Hour Emergency Number: Bateleur: +27 83 123 3911

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories	Hazard statement
Acute Oral Toxicity (Category 4)	H302
Acute Dermal Toxicity (Category 4)	H312
Acute Inhalation Toxicity (Category 3)	H331
Skin Corrosion/Irritation (Category 2)	H315
Serious Eye Damage/Irritation (Category 1)	H318
Skin Sensitization (Category 1)	H317
Reproductive toxicity (Category 2)	H361
Acute Aquatic Toxicity (Category 1)	H400
Chronic Aquatic Toxicity (Category 2)	H411

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None known

The most important adverse human health effects: May cause an allergic skin reaction

Safety Data Sheet (SDS) Bucon 250

According to UN GHS 8th Ed
Revision Date: 20/04/2023

First print date: 20/04/2023

Version: 1.1

Label elements



Hazard pictograms

Signal Word: Danger

Hazard Statements:

Hazard classes	Hazard statement
H302	Harmful if swallowed
H312	Harmful in contact with skin
H331	Toxic if inhaled
H315	Causes skin irritation
H318	Causes serious eye damage
H317	May cause an allergic skin reaction
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements:

P264	Wash hands thoroughly after handling.
P203	Avoid breathing dust/fume/gas/mist/ vapours/spray.
P264+P265	Wash hands thoroughly after handling. Do not touch eyes
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301 + P317	IF SWALLOWED: Get medical help.
P302+P352	IF ON SKIN: Wash with plenty water
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P354 + P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P316	Get emergency medical help immediately.
P317	Get medical help.
P318	IF exposed or concerned, get medical advice.
P321	Specific treatment
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.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification:

Not available

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Safety Data Sheet (SDS) Bucon 250

According to UN GHS 8th Ed
Revision Date: 20/04/2023

First print date: 20/04/2023
Version: 1.1

Substance name (IUPAC)	CAS Number.	Concentration by weight
Tebuconazole	107534-96-3	250 G/L
Other ingredients		Up to 1 L

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention immediately.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

In case of ingestion: Immediately transfer patient to nearest hospital or medical centre, warning by telephone of the estimated arrival time so that the start of treatment is not delayed. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband.

Most important symptoms and effects, both acute and delayed:

Symptoms of exposure to the product : May cause redness and tearing of the eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Extinguisher media:

Suitable extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

Small Fire: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

Large Fire: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

Fire Hazard: The material does not burn or burns with difficulty. It is not explosive. Airborne Bromacil dust may ignite.

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

Advice for fire-fighters:

Avoid inhaling hazardous dust vapours. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.

Contain fire control agents for later disposal according to Section 13.

Water can be used to cool unaffected containers.

SECTION 6. ACCIDENTAL RELEASE

Safety Data Sheet (SDS) Bucon 250

According to UN GHS 8th Ed

Revision Date: 20/04/2023

First print date: 20/04/2023

Version: 1.1

Personal precautions, protective equipment, and emergency procedures:

For non-emergency personnel: Keep all personnel away. Avoid contact with eyes, skin and clothing.

For emergency responders: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

Environmental precautions:

Stop leak if without risk. Prevent entry into drains, watercourses, or confined areas; dike if needed. If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

Dispose in a safe manner in accordance with local/national regulations.

Methods for containment and cleaning up:

For small spills: Clean up promptly. Do not use water to collect spilled product. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth. Do not flush spilled product into drains. If spill area is on ground near trees or other valuable plants, remove top 5 cm of soil after initial clean-up. Wear PPE. Collect in suitable and properly labelled containers.

For large spills: Isolate area and keep unauthorized personnel away. Contain spilled material if possible. Clean up promptly. Do not use water to collect spilled product. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth. Do not flush spilled product into drains. If spill area is on ground near trees or other valuable plants, remove top 5 cm of soil after initial clean-up. Wear PPE. Collect in suitable and properly labelled containers.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Do not leave the product in the applicator for long period. Use with adequate ventilation. Water used to clean equipment must be disposed of correctly to avoid contamination.

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed.

Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store in original containers. Store product in a segregated and approved area. Keep container in a cool, well-ventilated area at temperatures not exceeding 40 °C. Keep container tightly closed and sealed until ready for use. Keep under lock and key out of reach of unauthorized persons, children, and animals. Store away from incompatible substances.

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Safety Data Sheet (SDS) Bucon 250

According to UN GHS 8th Ed
Revision Date: 20/04/2023

First print date: 20/04/2023

Version: 1.1

Control parameters:

Occupational exposure limits (OEL): No information available.

Biological exposure indices (BEI): No information available.

Additional exposure limits under the conditions of use: No information available.

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Avoid contact with eyes. Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing is required to prevent skin contact with the product, apron, rubber boots.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Colour	Clear to pale yellow liquid
Odour	No data available
Odour threshold	No data available
pH	5.0-8.0
Melting point / freezing point (°C)	No data available
Boiling point (°C)	No data available
Flash point (°C)	>172°C
Evaporation rate	No data available
Flammability	Non flammable
Upper /lower flammability limits	Not explosive
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C)	0.97 g/mL at 20°C
Water solubility (g/l) at 20°C	Emulsifiable
Partition coefficient : n-octanol/water	No data available
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Viscosity, dynamic (mPa s)	No data available

Safety Data Sheet (SDS) Bucon 250

According to UN GHS 8th Ed

Revision Date: 20/04/2023

First print date: 20/04/2023

Version: 1.1

Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

Stable under normal storage conditions in original container for at least two years.

Chemical stability:

Relatively stable in neutral, weakly acidic and weakly alkaline media; hydrolyzed by stronger acids and basis

Possibility of hazardous reactions

No data available

Conditions to avoid:

Keep the product in a cool, dry place, at below 30 °C. Protect from sunlight, open flame and sources of heat. Avoid contact with strong oxidising agents.

Incompatible materials:

Compatible with most fungicides except very strong acid/alkaline formulations.

Hazardous decomposition products:

Stable under normal storage conditions in original container for at least two years.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution: No data available

Information on toxicological effects:

Assessment of acute toxicity:

The product has not been tested. The data reported is for the main ingredients in the mixture.

Tebuconazole CAS No. 107534-96-3	
Acute toxicity:	
Acute Oral LD50 (rat)	711.1 mg/kg
Acute Dermal LD50 (rat and mice)	1227.3 mg/kg
Acute Inhalation LC50 - 4 h (rat)	0.99 mg/l
Skin irritation/ corrosion	Causes skin irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12. ECOLOGICAL INFORMATION

Tebuconazole CAS No. 107534-96-3

Safety Data Sheet (SDS) Bucon 250

According to UN GHS 8th Ed
Revision Date: 20/04/2023

First print date: 20/04/2023
Version: 1.1

Toxicity	
Birds Acute oral LD50	4438mg/kg in the Japanese quail
Aquatic Toxicity Fish LC ₅₀ (96 hr) Aquatic Toxicity Water flea LC ₅₀ (48 hr) Toxicity to algae – static test EC ₅₀ (72h)	9.28mg/L in the Rainbow Trout 7.3 mg/L No data available
Toxicity to bees LD ₅₀ (oral) Toxicity to bees LD ₅₀ (contact)	> 83µg/bee No data available
Worms LC ₅₀ (14d)	No data available
Persistence and degradability	Tebuconazole degrades rapidly and does not accumulate. Soil mobility is low, and groundwater contamination through leaching can be excluded
Bioaccumulation potential	Bioconcentration factor Does not bioaccumulate
Mobility in Soil	Slightly mobile in soils
Result of PBT and vPvB assessment	No data available
Other adverse effects	No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product:

Keep out of drains, sewers, ditches, and waterways. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

Container:

Refer to container label for disposal information. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Dispose of as hazardous waste. Do not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider. Follow all local/ regional/ national/ international regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number	3082
UN proper shipping name	Environmentally hazardous substance, Liquid, N.O.S (Tebuconazole 250g/L)
Transport hazard class	9
Packaging group	III
Marine pollutant	Yes

SECTION 15. REGULATORY INFORMATION

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

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021.UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

Safety Data Sheet (SDS) Bucon 250

According to UN GHS 8th Ed

Revision Date: 20/04/2023

First print date: 20/04/2023

Version: 1.1

Other National regulations:

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

GHS aligned – all sections

Relevant H statements (number and full text):

H302: Harmful if swallowed

H312: Harmful in contact with skin

H331: Toxic if inhaled

H315: Causes skin irritation

H318: Causes serious eye damage

H317: May cause an allergic skin reaction

H361: Suspected of damaging fertility or the unborn child.

H400: Very toxic to aquatic life

H411: Toxic to aquatic life with long lasting effects

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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.