

UNIVERSAL EPOXICONAZOLE 125 SC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: EPOXICONAZOLE 125 SC
Other identifier: Epoxiconazole 125 SC
Recommended use: Fungicide
Restrictions on use: Agriculture

Supplier: Universal Crop Protection (Pty) Ltd
Co. Reg. No.: 1983/008184/07
 PO Box 801,
 Kempton Park, 1620, 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		
Skin irritation	Skin irrit. 3	H316
Skin sensitizer	Skin sens. 1	H317
Inhalation	Acute Tox. 4	H332
Carcinogenicity	Carc. 1B	H350
Reproductive Toxicity	Repr. 1B	H360
Environment		
Aquatic chronic	Aquatic chronic 3	H412

The most important adverse effects:
Physiochemical effects:
 None known.
Human health effects:
 Causes mild skin irritation.
 May cause an allergic skin reaction.
 May cause cancer.
 May damage fertility or the unborn child.

Label elements:



Signal word: Danger.
Hazard statements:
 H316: Causes mild skin irritation.
 H317: May cause an allergic skin reaction.
 H332: Harmful if inhaled.
 H350: May cause cancer.
 H360: May damage fertility or the unborn child.
 H412: Harmful to aquatic life with long lasting effects.
Precautionary statements:
 P202: Do not handle until all safety precautions have been read and understood.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
 P302/352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
 P308/313: If exposed or concerned: Get medical attention.
 P333/313: If skin irritation or rash occurs: Get medical advice.
 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:
 None known.
Toxicity:
 Classification according to GHS: Category 4
 Classification according to WHO: III
 Classification according to GPIC (Active): Unclassified

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Epoxiconazole Technical 95 %	133855-98-8	12,5 %	Carc. 2 (H351) Repr.1B (H360) Aquatic Chronic 2 (H411)
Anti-foam	9004-62-0	<5 %	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3

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			(H335)
Anti-freeze	107-21-1	<10 %	Acute Tox. 4 (H302)
Bacteriacide	50-00-0	<1 %	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Sens. 1 (H317) Acute Tox. 3 (H331) Muta. 2 (H341) Carc.1B (H350)

Specific hazards: In case of fire and/or explosion do not breath fumes.

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 disposal. Avoid pollution of waterways by run-off from the site.

Personal protective equipment: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker 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 and if symptoms persist consult a doctor.

Inhalation: If vapours or mists have been inhaled, move victim to fresh air and remove source of contamination if safe to do so. The patient should be kept under observation. Obtain medical attention if irritation persists.

Skin: Remove contaminated clothing and shoes. Wash skin gently and thoroughly with cold water and non-abrasive soap. Obtain medical attention if irritation occurs.

Eyes: Flush eyes with clean water. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing. Seek medical attention if irritation occurs.

Ingestion: Immediately induce vomiting as directed by medical personnel. Thoroughly rinse mouth with clean water. Give several glasses of milk or water to drink, or a slurry of activated charcoal in water. Do not give anything by mouth to an unconscious person.

Anticipated acute effects:

Causes mild skin irritation.

May cause an allergic skin reaction.

Anticipated delayed effects:

May cause cancer.

May damage fertility or the unborn child.

Most important symptoms/effects: The product may cause mild to moderate irritation, tearing, nausea, vomiting, diarrhoea, headache, breathing difficulty and death.

Advice to physician: There is no specific antidote available. Treat symptomatically and supportively. Stomach may be emptied by gastric lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Extinguish fires with carbon dioxide, dry powder, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media: Water jet.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes and skin. 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 harmful to aquatic organisms and causes long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into water courses 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, earth or silica gel.

Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, earth or other appropriate non-combustible 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 (i.e. organic solvent, detergent bleach or caustic). Add the solution to the drums already collected. Open burning or dumping of this material is prohibited. See section 13 for disposal considerations.

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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 containers without protective equipment. Immediately clean up spills that occur during handling. Keep containers tightly 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 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 excessive heat. 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
Bacteriacide	0.75 ppm (ST) 2 ppm	TWA (8 hours)	OSHA PEL

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 OSHA PELs 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: Wear an organic cartridge respirator suitable for protection from mists/ vapours of pesticides if inhalation is likely to occur.

Hand Protection: Employee must wear appropriate chemically resistant gloves e.g. nitrile rubber gloves to prevent contact with this mixture.

Eye Protection: Wear a face shield when handling the concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used.

Skin and Body Protection: The use of protective (impervious) clothing e.g. coveralls is recommended to prevent skin contact with this mixture.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this mixture; 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: Grey-white suspension concentrate.

Odour: No odour.

pH (1% aqueous dilution): Not available.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Water based.

Flammability: Not flammable.

Upper/lower explosion limits: Not explosive.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density: 1.024 g/ml.

Solubility: Completely soluble in water.

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: None known.

Conditions to Avoid: Avoid extreme heat or exposure to flames. Keep the product in a cool, dry well-ventilated place. Protect from sunlight.

Incompatible Materials: Avoid contact with strong bases, acids and oxidising agents, perchloric acid and chromyl chloride.

Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS.

Oral LD₅₀ (24 h) rat > 9000 mg/kg.

Dermal LD₅₀ (24 h) rat > 10000 mg/kg.

Inhalation LC₅₀ (4 h) rat > 3 mg/l.

Skin Irritation/Corrosion: Causes mild skin irritation.

Eye Damage/Irritation: Not available.

Skin Sensitization: May cause an allergic skin reaction.

Respiratory Sensitization: Not available.

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Reproductive cell mutagenicity: Not available.
Carcinogenicity: May cause cancer.
Reproductive toxicity: May damage fertility or the unborn child.
Specific target organ toxicity – single exposure: Not available.
Specific target organ toxicity – repeated exposure: Not available.
Aspiration hazard: Not available.
Chronic Effects: Not available.
POTENTIAL ADVERSE EFFECTS:
Inhalation: May be harmful if mist or vapour is inhaled. Exposure to vapours may be harmful to mucous membranes and upper respiratory tract.
Skin contact: Causes mild skin irritation. May cause an allergic skin reaction.
Eye contact: Not available.
Ingestion: Not available.

12. ECOLOGICAL INFORMATION

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

ECOTOXICITY DATA: Active ingredient

Fish:

LC ₅₀ (96 h)	Trout	2.2-4.6
	Bluegill sunfish	4.6-6.8 mg/kg

Daphnia:

LC₅₀ (48 h) 8.7 mg/l

Algae:

EC₅₀ (72 h) Green algae 2.3 mg/l

Birds:

Acute oral LD₅₀ Quail >2000 mg/kg
LC₅₀ 5000 mg/kg

Bees:

LD₅₀ > 100 mg/bee

Worms:

EC₅₀ (14 d) > 1000 mg/kg soil

Plants: There is extensive degradation.

ENVIRONMENTAL EFFECTS:

Persistence and degradability: Degradation in soil is by microbial activity, DT₅₀ c. 2-3 mo. K_{oc} 957-2647.

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. The product may be taken to a registered waste disposal site or incineration plant. Where possible, recycling is preferred to disposal or incineration. If recycling is not

practicable, dispose of in compliance with local regulations.

Container: Emptied containers retain vapour and 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 one third of that of the container. Add the rinsing to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, 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, N.O.S. (Epoiconazole 125 g/l)**

Maritime Transport IMDG/IMO:

Class: 9

Packaging group: III

UN Proper Shipping Name: **Environmentally Hazardous Substance, N.O.S. (Epoiconazole 125 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, N.O.S. (Epoiconazole 125 g/l)**

Special/Environmental Precautions: None known.

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

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.

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Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

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

Additional H-statement (s) (formulants)

H301: Toxic if swallowed.

H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H335: May cause respiratory irritation.

H341: Suspected of causing genetic defects.

H351: Suspected of causing cancer.

H411: Toxic 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 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.

END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.

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