

VILLA EPOX 125 SC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: EPOX 125 SC
Other identifier: Epoxiconazole 125 SC
Recommended use: Fungicide
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		
Inhalation	Acute Tox. 4	H332
Carcinogenicity	Carc. 2	H351
Reproductive Toxicity	Repr. 1B	H360
Environment		
Aquatic	Aquatic Chronic 3	H412

The most important adverse effects:
Physiochemical effects:
 None known.
Human health effects:
 Harmful if inhaled.
 Suspected of causing cancer.
 May damage fertility or the unborn child.

Label elements:



Signal word: Danger.
Hazard statements:
 H332: Harmful if inhaled.
 H351: Suspected of causing cancer.
 H360: May damage fertility. May damage 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.
 P308/313: If exposed or concerned: Get medical attention.
 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: Category 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	133855-98-8	12,5 %	Carc. 2 (H351) Repr. 1B (H360) Aquatic Chronic 2 (H411)
Ethylene glycol	107-21-1	<10 %	Acute Tox. 4 (H302)

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 consult a doctor.

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Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if person is not feeling well.

Skin: Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if skin irritation occurs.

Eyes: Flush eyes with clean water. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing.

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: The product may cause mild to moderate irritation, tearing, nausea, vomiting, diarrhoea, headache, breathing difficulty and death. Ingestion may resemble alcohol intoxication, progressing to central nervous system depression, vomiting, headache, rapid respiratory and heart rate, lowered blood pressure, stupor, collapse and unconsciousness with convulsions. Death from respiratory arrest or cardiovascular collapse may follow.

Anticipated delayed effects: Suspected of causing cancer. May damage fertility. May damage the unborn child.

Most important symptoms/effects: The product may cause mild to moderate irritation, tearing, nausea, vomiting, diarrhoea, headache, breathing difficulty and death. Ingestion may resemble alcohol intoxication, progressing to central nervous system depression, vomiting, headache, rapid respiratory and heart rate, lowered blood pressure, stupor, collapse and unconsciousness with convulsions. Death from respiratory arrest or cardiovascular collapse may follow.

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

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Extinguish fires with carbon dioxide or dry chemical powder. Water spray can be used to extinguish surrounding fire and cool unaffected or exposed containers. Water coming in contact with the product may cause frothing.

Unsuitable Extinguishing Media: 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 relinquish 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. This product is highly toxic to fish and aquatic invertebrates. May cause long-term adverse effects in the aquatic environment. 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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Do not breathe in fumes.

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: Keep spilled product from entering sewers, waterways or ground water.

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 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: 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 again.

Storage:

Conditions for safe storage: Store in its original container in dry, cool, well-ventilated area under lock and key. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Keep out of reach of

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children, uninformed persons and animals. Do not contaminate other pesticides and fertilizers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration: No occupational exposure limits has 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 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: Since this product is harmful when inhaled it is advisable that the employee wears a NIOSH approved air-purifying respirator with cartridges approved for organic vapours.

Hand Protection: The employee must wear appropriate chemically resistant gloves e.g. nitrile rubber gloves to prevent contact with this substance.

Eye Protection: This product should not cause eye irritation, but a face shield or chemical safety goggles is recommended when handling the concentrate and when applying the product to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: This product should not cause skin irritation, but the use of protective (impervious) clothing e.g. coveralls is recommended to prevent skin contact.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance; 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: White to pale beige suspension liquid.

Odour: Slightly fragrant odour.

pH (1% aqueous dilution): Not available.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: > 100 °C

Flammability: Not flammable.

Upper/lower explosion limits: Not explosive.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density/Relative density: 1.02 to 1.08 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 contact with strong bases and strong oxidising agents.

Incompatible Materials: None known.

Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS

Oral LD₅₀ (24h) rat > 16000 mg/kg.

Dermal LD₅₀ (24h) rat > 15000 mg/kg.

Inhalation LC₅₀ (4hours) rat > 2,6 mg/l.

Skin Irritation/Corrosion: Not available.

Eye Damage/Irritation: Not available.

Skin Sensitization: Not available.

Respiratory Sensitization: Not available.

Reproductive cell mutagenicity: Not available.

Carcinogenicity: Suspected of causing 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: Harmful if inhaled, especially due to presence of ant-freeze if heated or misted. Exposure to vapours over an extended period of time may cause throat irritation and headache. May cause nausea, vomiting, dizziness and drowsiness, pulmonary edema and central nervous system depression. When heated or misted, rapid involuntary eye movement and coma may result.

Skin contact: Not available.

Eye contact: Not available.

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Ingestion: Due to the active ingredient (A.I) this product is suspected of causing cancer and may damage fertility or the unborn child.

Other information: Not available.

12. ECOLOGICAL INFORMATION

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

ECOTOXICITY DATA: Active Ingredient

Fish:

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

Daphnia:

LC ₅₀ (48 h)		8.7 mg/l
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Algae:

EC ₅₀ (72 h)	Green algae	2.3 mg/l
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Birds:

Acute oral LD ₅₀	Quail	>2000 mg/kg
LC ₅₀		5000 mg/kg

Bees:

LD ₅₀		>100 mg/bee
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Worms:

EC ₅₀ (14 d)		>1000 mg/kg soil
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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. 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 a minimum of one third of that of the container. Add the rinsing's to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN NUMBER: 3082
Road Transport ADR/RID:
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
Packing 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
Packing 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.

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)

H302: Harmful if swallowed.

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

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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.