# with us you are growing goodness



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**REG NO:** 2000/010819/07 **VAT NO:** 4120189206

### **Safety Data Sheet**

## EPIC 125 SC L7963 (Act 36 of 1947)

1) PRODUCT AND COMPANY IDENTIFICATION			
Product name:	EPIC 125 SC		
Other means of identification:	Epoxiconazole 125 g/L SC		
Chemical Name:	Epoxiconazole: 2RS,3SR)-1-[3-(2- chlorophenyl)-2,3-		
	epoxy2-(4- fluorophenyl)propyl]-1 <i>H</i> -1,2,4-triazole		
Recommended use:	Fungicide		
Restrictions on use:	Agriculture		
UN No:	3082		
Distributed by:	MERIDIAN AGRITECH		
	P O BOX 436		
	MODDERFONTEIN		
	TEL 011 8228509 FAX 011 8223494		
	MOBILE: 0834006056 www.agritech.co.za		
Emergency Number:	POISON CENTRE (UNITAS HOSPITAL)		
	012 664 1100 TYOEDDEDO 2014 014 0100		
	TYGERBERG:021 931 6129		
	RED CROSS: 021 689 5227		
	RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946.		
2) Hazarda Idantifiaatian.	GRIFFON FOISON CENTRE, 002 440 0940.		
2) Hazards Identification: Classification of the product is based on the co-	Aguto Tovigity (Oral) Catagory 4		
formulants listed in section 3	Acute Toxicity (Oral) Category 4 Acute Toxicity (Dermal) Category 4		
iornidiants listed in Section 5	Acute Toxicity (Inhalation) Category 3		
	Skin Sensitization Category 1		
	Carcinogenicity Category 1B		
	Reproductive Category 1B		
	Aquatic Chronic Category 2		
Label Elements	Hazard symbols:		
	Xn – Harmful		
	N – Dangerous for the environmental		
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	NV.		
	<u> </u>		
	(型)((1))		
	* *		
	Signal word: Danger		
	Hazard Statements:		
	H301: Toxic if swallowed.		
	<b>H311:</b> Toxic in contact with skin.		
	H314: Causes severe skin burns and eye damage.		
	H317: May cause an allergic skin reaction.		
	H331: Toxic if inhaled.		
	H341: Suspected of causing genetic defects.		
	H350: May cause cancer. H351: Suspected of causing cancer.		
	H360FD: May damage fertility or the unborn child.		
	<b>H411:</b> Toxic to aquatic life with long-lasting effects.		
	114111 Toxio to aquatio ilio with long-labiling elicots.		
	Precautionary Statements:		
	<b>P201:</b> Obtain special instructions before use.		

**P202:** Do not handle until all safety precautions have been read and understood.

**P260:** Do not breathe mist/fumes/vapours/spray.

P262: Do not get in eyes, on skin, or on clothing.

**P263:** Avoid contact during pregnancy or while nursing. **P270:** Do not eat, drink or smoke when using the product.

**P271:** Use only outdoors or in a well-ventilated area.

**P272:** Contaminated work clothing should not be allowed out of the workplace.

**P273:** Avoid release to the environment.

**P280:** Wear protective gloves, protective clothing, eye protection

P321: Specific treatment (See First aid measures on this label)

**P362+P364:** Take off contaminated clothing and wash it before reuse.

P405: Store locked up.

Symbol(s): N - Dangerous for the environment

Xn – Harmful. Xi - Irritant

#### R-phrase(s):

R40: Possible risk of irreversible effects.

**R51:** Toxic to aquatic organisms.

**R53:** May cause long-term adverse effects in the aquatic environment.

R62: Possible risk of impaired fertility.

R63: Possible risk of harm to the unborn child.

#### S-phrase(s):

**S2:** Keep out of reach of children.

**\$13:** Keep away from food, drink and animal feeding stuffs.

\$36/37: Wear suitable protective clothing and gloves.

**S46:** If swallowed, seek medical advice immediately and show this container or label.

**S53:** Avoid exposure – obtain special instructions before use.

**S60:** This material and its container must be disposed of as hazardous waste.

**S61:** Avoid release to the environment.

#### 3) COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances:

Not applicable

#### 3.2 Mixtures:

Chemical name	Concentration	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)
Epoxiconazole	125 g/L	133855-98-8	406-850-2	Carc. 2 (H351) Aquatic Chronic 2 (H411) Repr. 1B (H360Df)
Formaldehyde	0.1%	50-00-0	200-001-8	Acute Tox. Cat. 3 (H301) Acute Tox. Cat. 3 (H311) Skin Corr. Cat. 1B (H314) Skin Sens. Cat. 1 (H317) Acute Tox. Cat. 3 (H331) Muta. Cat. 2 (H341) Carc. Cat. 1B (H350)

#### 4) FIRST AID MEASURES

#### **Description of First-Aid Measures:**

Inhalation:

Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance if symptoms develop or persist.

#### Skin contact:

Immediately remove contaminated clothing and wash affected areas thoroughly with soap and water. Wash contaminated clothing before re-use. Seek medical assistance if irritation persists. Eye contact: Flush eyes with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses. Seek medical assistance immediately. Ingestion Never give anything by mouth to an unconscious person. For advice, contact the National Poisons Centre. Do not induce vomiting. If safe to do so, rinse patients mouth and get the patient to drink plenty of water. Seek medical assistance immediately. Most important symptoms and effects, both acute and delayed: 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. Indication of any immediate medical attention and special treatment needed: Treat symptomatically after decontamination. If vomiting occurs, solvent and surfactants present may cause pulmonary pneumonitis. 5) FIRE-FIGHTING MEASURES **Extinguishing Media:** If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Do not use high volume water jet, due to contamination risk. **Unsuitable Extinguishing Media:** If involved in a fire, the dehydrated components may emit Specific Hazards arising from the substance/mixture: oxides of carbon, oxides of nitrogen, hydrogen chloride and hydrogen fluoride. Remove spectators from surrounding area. Isolate the fire Fire Fighting: area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Bund area with sand or earth to avoid pollution of waterways. Water can be used to cool containers. Dispose of extinguishing agent and spillage in a safe way at a later stage. Protective clothing: Full protective clothing and self-contained breathing apparatus 6) ACCIDENTAL RELEASE MEASURES Avoid contact with skin and eyes. For personal protection Personal precautions, protective equipment and see Section 8. emergency procedures: Do not contaminate waterways, drains and groundwater. If **Environmental precautions:** contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately Methods and material for containment and cleaning up: Do not eat, drink or smoke during the clean up process. Clear area of unprotected personnel. Wear protective gear: Keep people and animals away. Reposition leaking containers to minimize further leakage. Contain spill absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect the spilled material

and waste in sealable open-top type containers for disposal. Prevent from entering drains, waterways or sewers. Use

	earthen bunds or a	bsorbent bur	nding to prever	nt spreading
	of spillage.  Deal with spillages immediately. If contamination of drains, streams, watercourses etc. is unavoidable, then warn the			
T) HANDI INO A CTODA OF	local authorities.			
7) HANDLING & STORAGE	D- NOTti			
Precautions for Safe Handling:	Do NOT contaminate dams, rivers or streams, or any othe water bodies with chemical or used containers.			
Conditions for Safe Storage, including any incompatibilities:	Store in original container tightly closed and in a locked, dry, cool, well ventilated out of direct sunlight. Keep away from children or uninformed persons. DO NOT store in direct sunlight for prolonged periods. Keep away from strong oxidising agents. Keep out of reach of children.			
8) EXPOSURE CONTROL / PERSONAL PROTECTION	<u> </u>			
Appropriate Engineering Controls:	It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.			
Control Parameters: Occupational exposure limits:	Ingredient	CAS#	Limit	Basis
	Formaldehyde gas	50-00-0	STEL: 0.3 ppm	ACGIH (TLV) [United States]
PERSONAL PROTECTIVE EQUIPMENT:	Consult supplier to	confirm that	the equipment	is suitable.
Clothing:	When opening the container, preparing the spray and using the prepared spray wear protective waterproof clothing, water resistant. Re-entry period: Do not enter treated area until spray has dried.			
Respiratory protection:	Full-facepiece respirator (or goggles and half facepiece respirator). Handle in well ventilated areas, generally natural ventilation is adequate.			
Gloves:	Elbow length PVC gloves.			
Eye protection:	Safety goggles.			
Emergency eye wash:	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.			
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9) PHYSICAL & CHEMICAL PROPERTIES	an eye wash founta immediate work are			
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Decomposition Temperature:	Not available		
Viscosity:	Not available		
10) STABILITY & REACTIVITY			
Reactivity:	No hazardous reactions if stored and handled as indicated.		
Chemical Stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.		
Possibility of hazardous reactions:	None known.		
Conditions to avoid:	Avoid extreme temperatures.		
Incompatible materials:	Strong oxidizing agents andbases.		
Hazardous decomposition product(s):	If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen, hydrogen chloride and hydrogen fluoride.		
11) TOXICOLOGICAL INFORMATION			
Acute Toxicity:			
Oral:	LD50 (rat) >2200 mg/kg.		
Dermal:	LD50 (rat) >2000 mg/kg.		
Inhalation:	LC50 (rat) (4hr) >3.26 mg/l.		
Skin Corrosion/Irritation:	Mild skin irritant.		
Serious Eye Damage/Irritation: Respiratory or Skin Sensitization:	Mild eye irritant.  Product is not a skin sensitiser.		
Germ Cell Mutagenicity:	No data available.		
Carcinogenicity:			
Reproductive Toxicity:	Suspected of causing cancer.  May damage fertility or the unborn child.		
STOT-SE:	No data available.		
STOT-RE:	No data available.		
Aspiration Hazard:	No data available.		
12) ECOLOGICAL INFORMATION			
Ecotoxicity: Fludioxonil			
Birds: Fish:	LD50 for quail is >2000 mg/kg. LC50 (96 hr) for trout is 2.2 - 4.6 mg/kg and for bluegill sunfish 4.6 - 6.8 mg/kg.		
Daphnia:	LC50 (48 hr) for daphnia is 8.7 mg/l.		
Algae:	EC50 (72 hr) for green algae is 2.3 mg/l.		
Worms: Bees:	EC50 (14 d) > 1000 mg/kg soil. LD50 > 100 μg/bee (oral and contact).		
Persistence and Degradability:	Degradation in soil is by microbial activity, DT50 c. 2-3 mo. Koc 957-2647.		
Bio-accumulative Potential:  Mobility in Soil:	No data available.		
13) DISPOSAL CONSIDERATIONS	No data available.		
Waste Disposal:	In accordance with local and national regulations.		
·	Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of at an approved chemicals waste disposal facility.		
Container Disposal:	Triple or pressure rinse containers before disposal. Do not dispose of undiluted chemical on-site. If recycling, close container and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation or tree roots. Empty containers and product should not be burnt. Dispose of waste product at a reputable waste disposal contractor.		
14) TRANSPORTATION INFORMATION Road Transport ADR / IRD:	UN NUMBER: 3082		
Roau Hallsport ADR / IRD.	UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxiconazole) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III		

	Labelling no: 9
	Environmental Hazards: Not applicable
	Special Precautions for User: Read safety instructions,
	SDS and emergency procedures before handling.
Maritime Transport IMDG / IMO:	UN NUMBER: 3082
	UN Proper Shipping name: ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Epoxiconazole)
	Transport Hazard Class: 9 Miscellaneous Dangerous
	Goods
	Packaging group: III
	Labelling no: 9
	Environmental Hazards: Marine Pollutant
	Special Precautions for User: Read safety instructions,
	SDS and emergency procedures before handling.
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Air Transport ICAO / IATA:	UN NUMBER: 3082
	UN Proper Shipping name: ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Epoxiconazole)
	Transport Hazard Class: 9 Miscellaneous Dangerous
	Goods
	Packaging group: III
	Labelling no: 9
	Environmental Hazards: Not applicable
	Special Precautions for User: Read safety instructions,
	SDS and emergency procedures before handling.
Transport in Bulk (according to Annex II of MARPOL	No transport in bulk according to the IBC Code.
73/78 and the IBC Code):	
15) REGULATORY INFORMATION	
Safety, health and environmental	For the user of this plant-protective product applies: 'To
regulations/legislation specific for the	avoid risks to man and the environment, comply with the
substance/mixture:	instructions for use.' (Directive 1999/45/EC, Article 10, No.
	1.2)
Chemical Safety Assessment:	Advice on product handling can be found in sections 7 and
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	8 of this safety data sheet.

#### 16) OTHER INFORMATION

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.

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Date of issue: 08/02/2006

Date of revision: 22/04/2016, 08/01/2021

#### Abbreviations and acronyms:

- 1. CAS number: Chemical Abstracts Service number.
- CLP: Classification, Labelling, Packaging.
- 3. LD<sub>50</sub>: Lethal Dose for 50% of the test population.
- 4. LC<sub>50</sub>: Lethal Concentration for 50% of the test population.
- 5. DT<sub>50</sub>: Half-life.
- 6. GHS: Globally Harmonised System (of Classification and Labelling of Chemicals).

- STOT: Specific Target Organ Toxicity
   SE: Single exposure
   RE: Repeated exposure
   STEL: Short-term exposure limit
   Ppm: parts per million
   ACGIH: American Conference of Governmental Industrial Hygienists
   TLV: Threshold limit value

#### Literature References:

- GHS: www.ccohs.ca/oshanswers/chemicals/ghs.html
- ECHA: https://echa.europa.eu/search-chemicals