

## Safety Data Sheet

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

Date of issue: 08/02/2006

Date revised: 22/04/2016

1) PRODUCT AND COMPANY IDENTIFICATION	
<b>Product name:</b>	EPIC 125 SC
<b>Other means of identification:</b>	Epoxiconazole 125 g/L SC
<b>Recommended use:</b>	Fungicide
<b>Restrictions on use:</b>	Agriculture
<b>UN No:</b>	3082
<b>Distributed by:</b>	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 011 8223494 MOBILE: 0834006056 www.agritech.co.za
<b>Emergency Number:</b>	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 TYGERBERG:021 931 6129 RED CROSS: 021 689 5227 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946.
<b>Chemical Name:</b>	Epoxiconazole: 2RS,3SR)-1-[3-(2- chlorophenyl)-2,3-epoxy2-(4- fluorophenyl)propyl]-1H-1,2,4-triazole
2) Hazards Identification:	
<b>Classification of the product is based on the coformulants listed in section 3</b>	Xn; N R40; R51; R53; R62; R63 S2; S13; S36/37; S46; S53; S60; S61 Full text of phrases; see section 15
<b>Label Elements</b>	Hazard symbols: Xn – Harmful N – Dangerous for the environmental  <div style="display: flex; justify-content: center; align-items: center;">   </div> <p style="text-align: right;">Signal word:</p> <p>Harmful</p>
<b>Health effects: eyes:</b>	May cause irritation.
<b>Health effects: skin:</b>	May cause irritation.
<b>Health effects: ingestion</b>	Harmful if swallowed
<b>Health effects: inhalation</b>	Harmful by inhalation
3) Composition Details:	

<b>COMPOSITION</b>	Epoxiconazole
	125 g/L
<b>4) First Aid Measures:</b>	
<b>Inhalation:</b>	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.
<b>Skin contact:</b>	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.
<b>Eye contact:</b>	Flush eyes with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses. <b>Seek medical assistance immediately.</b>
<b>Ingestion</b>	Never give anything by mouth to an unconscious person.. For advice, contact the National Poisons Centre. <b>Do not induce vomiting.</b> If safe to do so, rinse patients mouth and get the patient to drink plenty of water. <b>Seek medical assistance immediately.</b>
<b>Advice to physician:</b>	Treat symptomatically after decontamination. If vomiting occurs, solvent and surfactants present may cause pulmonary pneumonitis.
<b>5) Fire-Fighting Measures:</b>	
<b>Flash point:</b>	N/A
<b>Extinguishing Media:</b>	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
<b>Fire Fighting:</b>	Remove spectators from surrounding area. Isolate the fire 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.
<b>Protective clothing:</b>	If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen, hydrogen chloride and hydrogen fluoride.  Full protective clothing and self-contained breathing apparatus
<b>6) Accidental Release Measures:</b>	

<p><b>Personal precautions:</b></p> <p><b>Environmental precautions:</b></p> <p><b>Occupational spill:</b></p>	<p>Avoid contact with skin and eyes. For personal protection see Section 8.</p> <p>Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately</p> <p>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 absorbent bunding to prevent spreading of spillage.</p> <p>Deal with spillages immediately. If contamination of drains, streams, watercourses etc. is unavoidable, then warn the local authorities.</p>
<p><b>7) Handling &amp; Storage:</b></p>	
<p><b>Handling:</b></p> <p><b>Storage:</b></p>	<p>Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers.</p> <p>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.</p>
<p><b>8) Exposure Control / Personal Protection:</b></p>	
<p>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.</p> <p><b>Occupational Exposure Limits:</b></p> <p><b>Engineering Controls:</b></p> <p><b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b></p> <p><b>Clothing:</b></p> <p><b>Respiratory protection:</b></p> <p><b>Gloves:</b></p> <p><b>Eye protection:</b></p> <p><b>Emergency eye wash:</b></p>	<p>Not available</p> <p>Handle in well ventilated areas. Generally natural ventilation is adequate. However, make sure that the work environment remains clean and that vapours and mists are minimised.</p> <p>Consult supplier to confirm that the equipment is suitable.</p> <p>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.</p> <p>Full-facepiece respirator (or goggles and half facepiece respirator). Handle in well ventilated areas, generally natural ventilation is adequate.</p> <p>Elbow length PVC gloves.</p> <p>Safety goggles.</p> <p>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.</p>
<p><b>9) Physical &amp; Chemical Properties:</b></p>	
<p><b>Form:</b></p>	<p>liquid</p>
<p><b>Colour:</b></p>	<p>clear beige</p>
<p><b>Odour:</b></p>	<p>Slight aromatic odour</p>

<b>Solubility:</b>	Disperses in water
<b>pH:</b>	N/A
<b>Odour threshold:</b>	Not available
<b>Melting point / Freezing point</b>	Not available
<b>Initial boiling point and boiling range</b>	Not available
<b>Flash point:</b>	23-25°C
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/ lower flammability or explosive limits:</b>	Not available
<b>Vapour pressure:</b>	<0.01 mPa (20°C)
<b>Vapour density:</b>	Not available
<b>Relative density:</b>	1.02 – 1.08
<b>Partition coefficient: n-octanol/water</b>	Kow LogP 3.44 (pH 7)
<b>Auto-ignition temperature:</b>	420°C
<b>Viscosity:</b>	Not available
<b>10) Stability &amp; Reactivity:</b>	
<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to avoid:</b>	No information available
<b>Incompatible materials:</b>	Strong oxidizing agents
<b>Hazardous decomposition product(s):</b>	If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen, hydrogen chloride and hydrogen flouride
<b>11) Toxicological Information (formulated product):</b>	
<p>Acute Toxicity - Oral LD50 (rat) &gt;2200 mg/kg for the formulated product  Acute Toxicity –Dermal LD50 (rat) &gt;2000 mg/kg for the formulated product  Acute Toxicity –Inhalation LC50 (rat) (4hr) &gt;3.26 mg/l for the formulated product  Eye Irritation: Mild eye irritant.  Skin Irritation: Mild skin irritant.  Skin Sensitisation: Product is not a skin sensitiser.</p>	
<b>12) Ecological Information:</b>	
<p>Acute Toxicity - Fish (The following is data for formulated product.) Toxic to fish. LC50 (96hr) for rainbow trout is 0.5 mg/l.  Acute Toxicity – Daphnia: LC50 (48 hr) for daphnia is 1.8 mg/l for the formulated product.  Acute Toxicity – Other Organisms (The following data is for the active ingredient, epoxiconazole.) Birds: Not toxic to birds. LD50 for quail is &gt;2000 mg/kg  Bees: Not toxic to bees. LD50 &gt;100 µg/bee.  Known Harmful Effects on the Environment: The product is a marine pollutant for sea transport.  Other Precautions: Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.  Environ. Protection Spray drift can cause damage, read the label for more information.</p> <p><b>Environmental fate:</b>  Animals: A.i. is readily excreted via faeces. There are no major metabolites, but a high number of minor metabolites was identified. The important metabolic reactions were cleavage of the oxirane ring, hydroxylation of the phenyl rings and conjugation.  Plants: There is extensive degradation.  Soil/Environment Degradation in soil is by microbial activity, DT50 c. 2-3 mo. Koc 957-2647.</p>	
<b>13) Disposal Considerations:</b>	

**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:

UN NUMBER: 3082

Road Transport ADR/ RID:

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoconazole)

Road Transport ADR/ RID:

Class: 9 Miscellaneous Dangerous Goods Packaging group:

III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoconazole)

#### 15) Regulatory Information:

**Symbol(s):** N – Dangerous for the environment  
Xn – Harmful.

S53; S60; S61

**R-phrases(s):**

**R40** (3) – 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-phrases(s):**

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

**S13** – Keep away from food, drink and animal feeding stuffs.

**S36/37** –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.

#### 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.

The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

MERIDIAN AGRITECH MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSES OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANT ABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MERIDIAN AGRITECH (PTY) LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.