

## Safety Data Sheet

### EPIC Xtra- Reg. No: L 10085 (Act No 36 of 1947)

Date of issue: 19/03/2015

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	EPIC Xtra
Other means of identification Recommended use:	Epoxiconazole/Carbendazim 250 SC Fungicide
Restrictions on use:	Agriculture
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	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
Chemical Name:	Epoxiconazole: (2RS,3SR)-1-[3-(2-chlorophenyl)-2,3-epoxy-2-(4-fluorophenyl)propyl]-1H-1,2,4-triazole Carbendazim: methyl benzimidazol-2-ylcarbamate (IUPAC)
2) Classification of the substance / mixture:	
Classification of the product is based on the co-formulants listed in section 3.	Xn, N; R40, R46, R50/53, R61-R63 Full text of R-phrases: see section 15.
Label elements:	Hazard symbols: Xn – Harmful N – Dangerous for the environment   Health Hazard   Single Word: Danger
Health effects:	Limited evidence of a carcinogenic effect. May cause heritable genetic damage. May impair fertility. May cause harm to the unborn child.
Health effects: eyes:	May cause irritation.
Health effects: skin:	May cause irritation.
Health effects: ingestion	Harmful if swallowed. May cause lung damage.
Health effects: inhalation	Harmful by inhalation.
3) COMPOSITION / INFORMATION ON INGREDIENTS:	

Mixture:

Chemical name	Composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Epoxiconazole	125 g/L	133855-98-8	406-850-2	Carc. Cat 2 (H351) Repr Cat 1B (H360Df) Aquatic Chronic Cat 2 (H411)	Xn, N; R40, R51/53, R62, R63;; S2, S36/37, S46, S61
Carbendazim	125 g/L	10605-21-7	234-232-0	Mut. Cat 1B (H340) Repr. Cat 1B (H360FD) Aquatic Acute Cat 1 (H400) Aquatic Chronic 1 (H410)	T, N; R46, R60, R61, R50/53; S45, S53, S60, S61

Full text of R- and S-phrases: see section 15.

#### 4) First Aid Measures:

<p><b>Eye contact:</b></p> <p><b>Skin contact:</b></p> <p><b>Ingestion:</b></p> <p><b>Inhalation:</b></p> <p><b>Most important symptoms and effects, acute and delayed:</b></p> <p><b>Indication of immediate medical attention and special treatment needed: Advice to physician</b></p>	<p>Immediately flush eyes with plenty of water. Remove contact lenses, if worn, and flush eyes with water for at least 15 minutes holding eyelids open. Seek medical assistance if irritation persists.</p> <p>Remove contaminated clothing and thoroughly wash body with soap and water. Seek medical attention if necessary. Wash contaminated clothing before re-use.</p> <p>If swallowed <b>DO NOT</b> induce vomiting unless advised to do so by a medical practitioner. If vomiting occurs spontaneously, keep airways clear. Immediately rinse mouth with water. Never give anything per mouth to an unconscious person. Seek medical advice immediately.</p> <p>Remove victim to well ventilated area and loosen clothing around the neck. If breathing is difficult, give oxygen. If breathing has stopped, perform artificial respiration. <b>Get medical attention immediately.</b></p> <p>See section 2. Other symptoms not known.</p> <p>Symptomatic treatment and supportive therapy as indicated, no known specific antidote.</p>
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#### 5) Fire-Fighting Measures:

<p><b>Suitable extinguishing media:</b></p> <p><b>Unsuitable extinguishing media:</b></p> <p><b>Fire fighting:</b></p> <p><b>Protective clothing:</b></p>	<p>Water spray, foam, carbon dioxide (CO<sub>2</sub>), dry powder. Will not burn readily.</p> <p>Water jet.</p> <p>Remove spectators from surrounding area. Use a recommended extinguishing agent. Dike extinguishing media for later disposal, do not allow to reach water systems. Dispose of debris and contaminated extinguishing water according to regulations. Water can be used to cool unaffected containers but must be contained for later disposal. Avoid pollution of waterways.</p> <p>Fire may produce irritating or poisonous vapours, mists or other products of combustion. Do not breathe fumes.</p> <p>Fire-fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus</p>
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#### 6) Accidental Release Measures:

<p><b>Personal precautions:</b></p> <p><b>Environmental precautions:</b></p>	<p>Do not breathe vapor or spray. Avoid contact with skin, eyes and clothing. Wear personal protective clothing according to operator safety during removal of spillage.</p> <p>Do not contaminate waterways, drains and groundwater. Do not discharge into soil or subsoil.</p>
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<p><b>Cleaning procedure:</b></p> <p><b>Disposal:</b></p>	<p>Do not eat, drink or smoke during the clean-up process. Clear area of unprotected personnel. Wear protective gear as mentioned in section 8 below. Contain the spill and stop leak provided it is safe to do so. Soak up minor spills with suitable absorbent material such as sand, sawdust, vermiculite, diatomaceous earth, etc. Shovel or sweep absorbed material and collect in a suitable container which can be labelled and sealed for disposal according to local regulations. Clean contaminated areas thoroughly with water containing detergent. For large spills, dike spill area and collect washings to avoid any contamination of surface and ground water, water supplies and drains. Deal with spillages immediately. If contamination of waterways or drains is unavoidable, warn the local authorities immediately.</p> <p>Use absorbent material should be stored in labelled, sealable containers until these can be disposed of according to local regulations.</p>
<p><b>7) Handling &amp; Storage:</b></p>	
<p><b>Handling:</b></p> <p><b>Storage:</b></p>	<p>Do not breathe in fumes or spray. Avoid contact with skin, eyes and clothes. Suitable protective equipment should be used as a preventative measure during spraying: gloves, coverall, eye protection, footwear. Do not eat, drink, smoke or apply cosmetics while using. Wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, or using the toilet.</p> <p>Store in original container tightly closed and in a locked, dry, well-ventilated area out of direct sunlight and away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons. Do not contaminate water, food or feed by storage or disposal.</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><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b></p> <p><b>Clothing:</b></p> <p><b>Gloves:</b></p> <p><b>Eye protection:</b></p> <p><b>Respiratory protection:</b></p> <p><b>Emergency eye wash:</b></p>	<p>Employee must wear appropriate protective (impervious) clothing and chemical resistant boots to prevent skin contact with this substance.</p> <p>Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance.</p> <p>The use of safety goggles or full-face shield is recommended.</p> <p>Wear suitable respiratory equipment, especially during spraying, such as a face mask or self-breathing apparatus with a combination filter.</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>	

<b>Form:</b> <b>Colour:</b> <b>Odour:</b> <b>Odour threshold:</b> <b>pH:</b> <b>Melting point / Freezing point</b> <b>Initial boiling point and boiling range</b> <b>Flash point:</b> <b>Evaporation rate:</b> <b>Flammability (solid, gas)</b> <b>Upper/ lower flammability or explosive limits:</b> <b>Vapour pressure:</b> <b>Vapour density:</b> <b>Relative density:</b> <b>Solubility(ies)</b> <b>Partition coefficient: n-octanol/water</b> <b>Auto-ignition temperature:</b> <b>Viscosity:</b>	Liquid, suspension concentrate White to cream white Characteristic No data available 7 - 9 No data available No data available No data available No data available No data available Not flammable No data available No data available No data available 1.084 g/ml Suspends in water No data available No data available No data available
<b>10) Stability &amp; Reactivity:</b>	
<b>Reactivity:</b>  <b>Chemical stability:</b>  <b>Hazardous decomposition product(s):</b>  <b>Conditions to avoid:</b>  <b>Incompatible materials:</b>	Stable under normal storage conditions.  When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Thermally and chemically stable.  Fires can release vapours that are irritating or toxic. On decomposition releases carbon monoxide, carbon dioxide and nitrogen oxide.  Protect from direct sunlight, heat and flames.  Strong bases, strong acids, strong oxidising agents.
<b>11) Toxicological Information:</b>	
Acute: Oral LD50 > 4 000 mg/kg, rat. Dermal LD50 > 6 000 mg/kg, rat. Inhalation LC50 4h > 5.3 mg/L, rat (Epoconazole) > 5.6 mg/L, rat (Carbendazim)  Skin irritation : Not an irritant, rabbit (Epoconazole). Not an irritant, rabbit (Carbendazim). Eye irritation : Not an irritant, rabbit (Epoconazole). Not an irritant, rabbit (Carbendazim). Sensitisation : Not a skin sensitizer, guinea pigs. Mutagenicity : May cause genetic defects (Carbendazim) Carcinogenicity : Limited evidence of causing cancer (Epoconazole) Effect on fertility : May damage fertility or the unborn child (Epoconazole, Carbendazim)	
<b>12) Ecological Information:</b>	
Bees : Oral LD50 >100 µg/bee (Epoconazole). LD50 contact > 50 µg/bee (Carbendazim). Birds : Oral LD50 quail > 2000 mg/kg (Epoconazole). Oral LD50 quail 5826 – 15595 mg/kg (Carbendazim). Fish : LC50 (96h) trout 2.2 – 4.6 mg/kg, bluegill sunfish 4.6 – 6.8 mg/kg (Epoconazole). LC50 (96h) carp 0.61, rainbow trout 0.83, bluegill sunfish > 17.25, guppies > 8 mg/L (Carbendazim). Daphnia : LC50 (48h) > 8.7 mg/L (Epoconazole).  Algae : EC50 (72h) green algae 2.3 mg/L (Epoconazole).  Worms : EC50 (14d) > 1000 mg/kg soil (Epoconazole).  Persistence, degradability and motility: Epoconazole: degraded by microorganisms, DT50 2 – 3 months, Koc 957 – 2647. Carbendazim: DT50 in soil 8 – 32 days in outdoor conditions, in the environment DT50 6 – 12 months of bare soil, 3 – 6 months on turf and 2 – 25 months in water under aerobic and anaerobic conditions respectively. Mainly decomposed by microorganisms Koc 200 – 250.  Biodegradation: Not readily biodegradable. Bioaccumulative potential: Not available.  Additional information: Do not discharge into the environment without control.	

### 13) Disposal Considerations:

**Waste Disposal:** Waste should not be re-used. Do not contaminate water, food or feed by disposal. Open dumping or burning of this pesticide is prohibited. Wastes resulting from the use of this product may be disposed of by incineration or at an approved chemical waste disposal facility. Do not dispose of undiluted chemical on site.

**Container Disposal:** Refer to the product label for instructions.

Triple rinse empty containers before disposal. Add rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Empty containers should not be burnt, puncture and flatten containers and dispose at a licensed landfill site according to local regulations.

If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.

**DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** If recycling, replace cap and take containers to the designated recycling point. If containers cannot be recycled, they should be disposed of together with the waste chemical according to local regulations.

### 14) Transportation Information:

UN Number: 3082

Road transport ADR/RID

Class: 9

Packing group: III

Hazard label: 9, EHSM

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (125 g/L Epoxiconazole, 125 g/L Carbendazim)

Maritime transport IMDG/IMO

Class: 9

Packing group: III

Hazard label: 9, EHSM

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (125 g/L Epoxiconazole, 125 g/L Carbendazim)

Marine pollutant

Air transport IATA/ICAO

Class: 9

Packing group: III

Hazard label: 9, EHSM

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (125 g/L Epoxiconazole, 125 g/L Carbendazim)



### 15) Regulatory Information:

**Symbols:** N, Xn

#### **Risk – Phrase:**

R40 Limited evidence of carcinogenic effect.

R51/53 Toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

R62 Possible risk of impaired fertility.

R63 Possible risk of harm to the unborn child.

R46 May cause heritable genetic damage.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R60 May impair fertility.

R61 May cause harm to the unborn child.

#### **Safety – Phrase:**

S2: Keep out of the reach of children.

S36/37: Wear suitable protective clothing and gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S46 If swallowed, seek medical advice immediately and show this container or label. S60: This material and its container must be disposed of as hazardous waste.

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

S61: Avoid release to the environment. Refer to special instructions/Safety datasheets

#### **Hazard Statements**

H411 Toxic to aquatic organisms with long-lasting effects.

H351 Suspected of causing cancer.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H340 May cause genetic defects.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

Date of revision: 2015/02/12

**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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