SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
   Trade name : Soprano 125 SC
   Chemical formula : Epoxiconazole : C17H13ClFN3O

1.2. Relevant identified uses of the substance or mixture and uses advised against
   Relevant identified uses : Fungicide
   Uses advised against : None under normal conditions.

1.3. Details of the supplier of the safety data sheet
   : ADAMA SOUTH AFRICA (PTY) LTD
     21 Viben Street
     Brackenfell 7560
   Email : msds@mcw.co.il

1.4. Emergency telephone number
   : +27 82 331 6463
   : +27 21 982 1460

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture
   Classification 67/548/EEC (DSD) - 1999/45/EC (DPD)
   : Carc. Cat. 3; R40
   : Repr. Cat. 3; R62-63
   : Xn; R65
   : N; R50-53

2.2. Label elements
   Labelling 1999/45/EC (DPD)
   Symbol(s)
   : Xn : Harmful.
   : N : Dangerous for the environment.

   R Phrase(s)
   : R40 - Limited evidence of a carcinogenic effect.
   : R50/53 - Very toxic to aquatic organisms, 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.
   : R65 - Harmful : may cause lung damage if swallowed.

   S Phrase(s)
   : S13 - Keep away from food, drink and animal feedingstuffs.
   : S35 - This material and its container must be disposed of in a safe way.
   : S36/37 - Wear suitable protective clothing and gloves.
   : S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.
   : S62 - If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

2.3. Other hazards
   Other hazards : None under normal conditions.
SECTION 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Concentration % w/w</th>
<th>CAS No</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH Reg.</th>
<th>Classification</th>
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<td>Epoxiconazole</td>
<td>125 g/l</td>
<td>133855-98-8</td>
<td>406-850-2</td>
<td>613-175-00-9</td>
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<td>265-198-5</td>
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SECTION 4. First aid measures

4.1. Description of first aid measures

First aid measures

**Inhalation**
- Remove victim to fresh air. Keep victim warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If you feel unwell, seek medical advice.

**Skin contact**
- Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse. Consult a doctor.

**Eye contact**
- In case of eye contact, immediately rinse with clean water for 10-15 minutes. Immediately consult an eye specialist.

**Ingestion**
- Do not induce vomiting. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

- Not available

4.3. Indication of any immediate medical attention and special treatment needed

Note to physician
- No specific antidote known. Treat symptomatically and give supportive therapy.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media
- Water spray, water fog, foam.

5.2. Special hazards arising from the substance or mixture

Specific hazards
- Thermal decomposition may generate: carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride, HF.

5.3. Advice for fire-fighters

**Protection against fire**
- Wear suitable protective clothing. Self-contained breathing apparatus.

**Special procedures**
- Fight fires from a protected location. Dike fire control water for later disposal.
SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders

6.2. Environmental precautions

For environmental precautions

6.3. Methods and material for containment and cleaning up

Clean up methods

6.4. Reference to other sections

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handling

7.2. Conditions for safe storage, including any incompatibilities

Storage

7.3. Specific end use(s)

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

TLV©

8.2. Exposure controls

Personal protection

• Respiratory protection
• Hand protection
• Skin protection
• Eye protection

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state at 20 °C

Colour

Odour

Odour threshold

pH

Melting point / Freezing point

ADAMA SOUTH AFRICA (PTY) LTD
21 Viben Street  Brackenfell  7560
SECTION 9. Physical and chemical properties (continued)

- Melting point [°C] : Epoxiconazole : 136.1-137.6°C
- Initial boiling point - boiling range : Not available
- Flash point : > 100 °C
- Flammability : Not flammable
- Explosion limits (lower - upper) : Not available
- Vapour pressure : Not available
- Vapour density : Not available
- Relative density : 1.03 - 1.05
- Solubility : Dispersible
- Partition coefficient : n-octanol / water : Not available
- Auto-ignition temperature : Not available
- Decomposition temperature : Not available
- Viscosity : Not available
- Explosive Properties : Not explosive
- Oxidising properties : Not available

9.2. Other information

- Molecular weight : Epoxiconazole : 329.8

SECTION 10. Stability and reactivity

10.1. Reactivity

Reactivity : Not available

10.2. Chemical stability

Chemical stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Avoid contact with : strong bases and strong bases.
Hazardous polymerization : Will not occur.

10.4. Conditions to avoid

Conditions to avoid : Protect from sunlight, open flame and sources of heat. Decomposes upon heating.

10.5. Incompatible materials

Materials to avoid : Strong acids, bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Thermal decomposition may generate : carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen chloride, HF.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

No toxicological information is known on the product. For a similar formulation containing 125 g/l Epoxiconazole:

- Acute toxicity
  - Oral, Rat LD50 (mg/kg) : > 2000
  - Dermal, Rat LD50 [mg/kg] : > 2000
  - Inhalation, Rat LC50 [mg/l/4h] : > 5.00
- Skin corrosion/irritation : Not irritant
- Serious eye damage/irritation : Not irritant
SECTION 11. Toxicological information (continued)

- Respiratory or skin sensitisation: Guinea pig maximization test: Non sensitizer
- Germ cell mutagenicity: Not mutagenetic.
- Carcinogenicity: Limited evidence of a carcinogenic effect.
- Reproductive toxicity: Possible risk of impaired fertility. Possible risk of harm to the unborn child.
- STOT-single exposure: Not available
- STOT-repeated exposure: Not available
- Aspiration hazard: Not available

SECTION 12. Ecological information

12.1. Toxicity

Ecological effects information: No ecological information is known on the product. For a similar formulation: containing 125 g/l Epoxiconazole:

Acute toxicity

- 96 H-LC50 - Rainbow trout [mg/l]: 7.8
- 96 H-LC50 - Carp [mg/l]: 11.4
- 48 H-LC50-Daphnia magna [mg/l]: 17
- 72 H-EbC50 - Algae [mg/l]: 0.28
- 72 H-ErC50 - Algae [mg/l]: 7

Long-term exposure: Not available

12.2. Persistence - degradability: Not available

12.3. Bioaccumulative potential: Not available

12.4. Mobility in soil: Not available

12.5. Results of PBT and vPvB assessment: Not available

12.6. Other adverse effects: None known.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

General: Dispose in a safe manner in accordance with local/national regulations.
SECTION 14. Transport information

14.1. UN number

UN N° : 3082

Hazard Label(s) :

14.2. UN proper shipping name

- Land transport - ADR/RID
  : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (125 g/l EPOXICONAZOLE)
- Sea transport - IMO-IMDG
  : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (125 g/l EPOXICONAZOLE)
- Air transport - ICAO/IATA
  : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (125 g/l EPOXICONAZOLE)

14.3. Transport hazard class(es)

- Land transport - ADR/RID
  : 9
- Sea transport - IMO-IMDG
  : 9
- Air transport - ICAO/IATA
  : 9

14.4. Packing group

- Land transport - ADR/RID
  : III
- Sea transport - IMO-IMDG
  : III
- Air transport - ICAO/IATA
  : III

14.5. Environmental hazards

- IMDG-Marine pollution
  : Marine pollutant - Polluant marin

14.6. Special precautions for user

: See transport documents.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

: Not applicable.

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

: Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

: Not applicable

SECTION 16. Other information

List of relevant R phrases (heading 3) :

- R11 - Highly flammable.
- R23 - Toxic by inhalation.
- R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
- R39/23/24/25 - Toxic : danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R40 - Limited evidence of a carcinogenic effect.
- R50 - Very toxic to aquatic organisms.
- R51/53 - Toxic to aquatic organisms, 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.
- R65 - Harmful : may cause lung damage if swallowed.
SAFETY DATA SHEET
EU Regulation No. 1907/2006, Annex II

Soprano 125 SC
R-20465

SECTION 16. Other information (continued)

List of relevant H phrases (Section 3):
H225 - Highly flammable liquid and vapour.
H301 - Toxic if swallowed.
H304 - May be fatal if swallowed and enters airways.
H310 - Fatal in contact with skin.
H331 - Toxic if inhaled.
H351 - Suspected of causing cancer
H361fd - Suspected of damaging fertility or the unborn child.
H370 - Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H400 - Very toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Print date: 10/6/2014

Recommended uses and restrictions: None.

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