

	<b>MATERIAL SAFETY DATA SHEET</b>	Page : 1
		Revised edition no : 1
		Date : 6 / 1 / 2013
		Supersedes : 6 / 1 / 2013
<b>SOPRANO C</b>		<b>R-10800</b>

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

**Trade name** : SOPRANO C  
**Chemical formula** : Epoxiconazole : C17H13ClFN3O  
Carbendazim : C9H9N3O2  
**Relevant identified uses** : Fungicide  
**Company identification** : ADAMA SOUTH AFRICA (PTY) LTD  
21 Viben Street  
Brackenfell 7560  
**Email** : msds@mcw.co.il  
**Phone nr** : +27 82 331 6463  
+27 21 982 1460

### SECTION 2. Hazards identification

**Human health hazards** : Limited evidence of a carcinogenic effect.  
May cause heritable genetic damage.  
May impair fertility  
May cause harm to the unborn child  
Harmful: may cause lung damage if swallowed.  
**Environmental hazard** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### SECTION 3. Composition/information on ingredients

**Components** : This product is considered to be hazardous and contains hazardous components.

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Epoxiconazole	125 g/l	133855-98-8	406-850-2	613-175-00-9	----	Carc. Cat. 3; R40 Repr. Cat. 3; R62 Repr. Cat. 3; R63 N; R51-53
Carbendazim	125 g/l	10605-21-7	234-232-0	613-048-00-8	----	Muta. Cat. 2; R46 Repr. Cat. 2; R60 Repr. Cat. 2; R61 N; R50-53
Solvesso 200 ULN	> 10 %	64742-94-5	265-198-5	649-424-00-3	----	Xn; R65

### SECTION 4. First aid measures

**First aid measures**  
**Inhalation** : Remove victim to fresh air. Keep victim warm and at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. 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 in the event of any complaints.  
**Eye contact** : Rinse immediately with plenty of water. If pain persists, consult an eye specialist.  
**Ingestion** : DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Wash out mouth with plenty of water. Consult a doctor.  
**Note to physician** : No specific antidote known. Treat symptomatically and give supportive therapy. If ingested perform gastric lavage and administer activated charcoal.

	<b>MATERIAL SAFETY DATA SHEET</b>	Page : 2
		Revised edition no : 1
		Date : 6 / 1 / 2013
		Supersedes : 6 / 1 / 2013
<b>SOPRANO C</b>		<b>R-10800</b>

### SECTION 5. Fire-fighting measures

- Suitable extinguishing media** : Water spray , water fog , foam .
- Specific hazards** : Thermal decomposition may generate : carbon monoxide , carbon dioxide , nitrogen oxides , hydrogen chloride , HF .
- 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

- For emergency responders** : Use appropriate protection (see section 8).
- Environmental precautions** : Dispose of this material and its container at hazardous or special waste collection point In accordance with national and regional regulations . If the product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out.
- Clean up methods** : In the event of minor spillage: Absorb in sand or other inert material . Use appropriate container to avoid environmental contamination.  
In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

### SECTION 7. Handling and storage

- Handling** : Do not breathe fumes. Avoid contact with skin and eyes.
- Storage** : Keep locked up Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place (<50 °C )

### SECTION 8. Exposure controls/personal protection

- TLV©** : Epoxiconazole : Not established  
Carbendazim Not established
- : Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower . Wash hands thoroughly after handling. Wash clothing before re-using.
- Personal protection**
- **Respiratory protection** : During spraying wear suitable respiratory equipment.
  - **Hand protection** : Wear suitable gloves.
  - **Skin protection** : Wear protective clothing and chemical resistant boots .
  - **Eye protection** : Safety goggles or face shield

### SECTION 9. Physical and chemical properties

- Physical state at 20 °C** : Liquid
- Colour** : White
- Odour** : characteristic - aromatic
- pH value** : 5-8 at a temperature of 20 °C
- Melting point [°C]** : Epoxiconazole : 136.1-137.6°C  
Carbendazim : 301-307°C
- Flash point [°C]** : 135
- Specific gravity** : 1.05 - 1.11
- Solubility in water** : Dispersible
- Viscosity** : 1500-4000 cP (20 RPM)
- Explosion limits** : Not explosive

# MATERIAL SAFETY DATA SHEET

Page : 3

Revised edition no : 1

Date : 6 / 1 / 2013

Supersedes : 6 / 1 / 2013

## SOPRANO C

**R-10800**

### SECTION 10. Stability and reactivity

- Chemical stability** : Stable under normal conditions.
- Hazardous decomposition products** : Thermal decomposition may generate : carbon monoxide , carbon dioxide , nitrogen oxides , hydrogen chloride , HF .
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : Protect from sunlight , open flame and sources of heat . Decomposes upon heating.

### SECTION 11. Toxicological information

- Rat oral LD50 [mg/kg] : > 2000
- Dermal, Rat LD50 [mg/kg] : > 2000
- Rat inhalation LC50 [mg/l/4h] : > 5.00
- Dermal irritation (rabbit)** : Not irritant
- Eyes irritation (rabbit)** : Not irritant
- Sensitization** : Guinea pig maximization test: Non sensitizer
- Mutagenicity** : Carbendazim : Cat.3: May cause heritable genetic damage.
- Carcinogenicity** : Epoxiconazole: Cat.3 : Limited evidence of a carcinogenic effect.
- Toxic for reproduction : Fertility** : Epoxiconazole: Cat.3 : Possible risk of impaired fertility.  
Carbendazim : Cat.2: May impair fertility  
Epoxiconazole : Cat.3 : Possible risk of harm to the unborn child.  
Carbendazime : Cat.2 : May cause harm to the unborn child

### SECTION 12. Ecological information

- Ecological effects information** : No ecological information is known on the product.
- 48 H-LC50-Daphnia magna [mg/l]** : Carbendazim : 0.13 - 0.22  
Epoxiconazole : 0.81
- 72 H-LC50 - Daphnia magna [mg/l]** : Carbendazim : 419
- 48 H-LC50 - Algae [mg/l]** : Epoxiconazole : 1.8

### SECTION 13. Disposal considerations



- General** : Dispose in a safe manner in accordance with local/national regulations.

### SECTION 14. Transport information

- UN N°** : 3082
- Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (125 g/l Epoxiconazole, 125 g/l Carbendazim)
- H.I. no : 90
- IMO-IMDG - class or division : 9
- Packing group : III
- IMDG-Marine pollution : Marine pollutant - Polluant marin

	<b>MATERIAL SAFETY DATA SHEET</b>	Page : 4
		Revised edition no : 1
		Date : 6 / 1 / 2013
		Supersedes : 6 / 1 / 2013
<b>SOPRANO C</b>		<b>R-10800</b>

### SECTION 15. Regulatory information

<b>EU Classification Symbol(s)</b>	: This product is provisionally labelled by the supplier in accordance to the EU regulations:
	 
<b>R Phrase(s)</b>	: Xn : Harmful. N : Dangerous for the environment. R40 - Limited evidence of a carcinogenic effect. R46 - May cause heritable genetic damage. R51/53 - 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. R65 - Harmful : may cause lung damage if swallowed.
<b>S Phrase(s)</b>	: S02 - Keep out of the reach of children. S13 - Keep away from food, drink and animal feedingstuffs. S20/21 - When using, do not eat, drink or smoke. S36/37 - Wear suitable protective clothing and gloves. 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. Refer to special instructions/Safety data sheets. S62 - If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

### SECTION 16. Other information

<i>List of relevant R phrases (heading 3)</i>	: <i>R40 - Limited evidence of a carcinogenic effect. R46 - May cause heritable genetic damage. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 - 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. R62 - Possible risk of impaired fertility. R63 - Possible risk of harm to the unborn child. R65 - Harmful : may cause lung damage if swallowed.</i>
<b>Print date</b>	: 22 / 5 / 2014
<b>Recommended uses and restrictions</b>	: None.

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