



SOPRANO 125 SC

R-9120.DPD

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : SOPRANO 125 SC
Type of product : Fungicide
Chemical formula : Epoxiconazole : C₁₇H₁₃CIFN₃O
Chemical description : (2RS,3RS)--(2-chlorophenyl)-2 -(4-fluorophenyl)-2-[(1H-1,2,4-triazol-1-yl) methyl] oxirane
Use : Fungicide
Company identification : Makhteshim-Agan SA (Pty) Ltd
21 Viben Street
PO Box 498
Brackenfell 7561
Emergency phone nr : +27-21-9821460

2. HAZARDS IDENTIFICATION

Human health hazards : Limited evidence of a carcinogenic effect.
Possible risk of impaired fertility.
Possible risk of harm to the unborn child.
Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS No	EC No	Index No	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
Solvesso 200	: < 45 %	64742-94-5	265-198-5	649-424-00-3	Xn; R65

4. FIRST AID MEASURES

First aid
Inhalation : 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. Remove victim to fresh air.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with plenty of water. Consult a doctor.
Skin contact : Consult a doctor in the event of any complaints. Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse.
Eye contact : Rinse immediately with plenty of water. If pain persists, consult an eye specialist.
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy. If ingested perform gastric lavage and administer activated charcoal.

5. FIRE-FIGHTING MEASURES

Extinguishing media : Water spray , water fog , foam .
Special procedures : Fight fires from a protected location . Dike fire control water for later disposal.
Special exposure hazards : Thermal decomposition generates : carbon monoxide , carbon dioxide , nitrogen oxides , hydrogen chloride , HF .
Protection against fire : Wear suitable protective clothing. Self-contained breathing apparatus.



SOPRANO 125 SC

R-9120.DPD

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : 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.
- After spillage and/or leakage** : 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.

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)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Industrial hygiene** : 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.
 - **Skin protection** : Wear protective clothing and chemical resistant boots .
 - **Hand protection** : Wear suitable gloves.
 - **Eye protection** : Safety goggles or face shield
- Occupational Exposure Limits**
- TLV** : Epoxiconazole : Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
- Colour** : White
- Odour** : characteristic
- pH value** : 6.5-8.5 at a temperature of 20 °C
- Specific gravity** : 1.039-1.041
- Molecular weight** : Epoxiconazole : 329.8
- Melting point [°C]** : Epoxiconazole : 136.1-137.6°C
- Viscosity** : 467 cP. Surface tension = 65.7 mN/m.
- Solubility in water** : Dispersible
- Flash point [°C]** : > 110
- Explosion limits** : Not explosive

10. STABILITY AND REACTIVITY

- Physico-chemical stability** : Stable under normal conditions.
- Hazardous decomposition products** : Thermal decomposition generates : carbon dioxide , carbon monoxide , nitrogen oxides , hydrogen chloride , HF ,
- Hazardous reactions** : Avoid contact with : strong bases and strong bases .
- Hazardous Polymerization** : Will not occur.



SOPRANO 125 SC

R-9120.DPD

10. STABILITY AND REACTIVITY (continued)

Conditions to avoid : Protect from (sun)light , open flame and sources of heat . Decomposes upon heating.

11. TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : > 2000
Rat dermal 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
Carcinogenicity : Cat.3 : Limited evidence of a carcinogenic effect.
Reproductive toxicity : Cat.3 : Possible risk of impaired fertility.
Cat.3 : Possible risk of harm to the unborn child.

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

Disposal : Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

- UN No. : 3082
- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (125 g/l EPOXICONAZOL)
- Packing group : III
- Class : 9
- H.I. nr : 90
- IMDG-Marine pollution : YES

15. REGULATORY INFORMATION

EU Classification : This product is provisionally labelled by the supplier in accordance to the EU regulations:

Symbol(s)



R Phrase(s)

: Xn: Harmful.
N: Dangerous for the environment.
: 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.



SOPRANO 125 SC

R-9120.DPD

15. REGULATORY INFORMATION (continued)

S Phrase(s)

R63 - Possible risk of harm to the unborn child.
: S13 - Keep away from food, drink and animal feedingstuffs.
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.

16. OTHER INFORMATION

Recommended uses and restrictions : None.

Text of R-phrases in heading 3 :
: R40 - Limited evidence of a carcinogenic effect.
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.

Print date : 2 / 9 / 2009

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document