

## AMISTAR 250 SC

Version 10

Revision Date 06.09.2004

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

#### PRODUCT INFORMATION

**Product name** : AMISTAR 250 SC  
**Design Code** : A12705B  
**Use** : Fungicide  
**Company** : Syngenta Crop Protection AG  
 Postfach  
 CH-4002 Basel  
 Switzerland  
**Telephone** : +41 61 323 11 11  
**Telefax** : +41 61 323 12 12  
**Emergency telephone number** : +44 1484 538444



**Dangerous for the environment**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

| Chemical Name  | CAS-No.     | EC-No.    | Symbol(s) | R-phrase(s)   | Concentration      |
|--|-------------|-----------|-----------|---------------|--------------------|
| azoxystrobin   | 131860-33-8 |           | T, N      | R23<br>R50/53 | 22.9 % W/W         |
| propane-1,2-diol   | 57-55-6     | 200-338-0 |           |               | >= 1 - <= 10 % W/W |
| alcohols, C16-18, ethoxylated                                    | 68439-49-6  |           | Xn        | R22<br>R36    | >= 5 - <= 10 % W/W |
| naphthalenesulfonic acid, sodium salt, polymer with formaldehyde | 9008-63-3   |           | Xi        | R36/38        | >= 1 - <= 5 % W/W  |

For the full text of the R phrases mentioned in this Section, see Section 16.

### 3. Hazards identification

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

### 4. FIRST AID MEASURES

**General advice** : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.

**Inhalation** : Remove to fresh air.  
 If breathing is irregular or stopped, administer artificial respiration.

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- Inhalation** : Remove to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or Poison Control Centre immediately.
- Skin contact** : Take off all contaminated clothing immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label.  
Do not induce vomiting.
- Medical advice** : There is no specific antidote available. Treat symptomatically.

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**5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media** : Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
alcohol-resistant foam  
water spray
- Extinguishing media which must not be used for safety reasons** : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during fire fighting** : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Exposure to decomposition products may be a hazard to health.
- Special protective equipment for fire-fighters** : In the event of fire, wear self-contained breathing apparatus.
- Further information** : Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.

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**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up** : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Additional advice** : If the product contaminates rivers and lakes or drains inform respective authorities.

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**7. HANDLING AND STORAGE****HANDLING**

- Advice on safe handling** : No special technical protective measures required.  
No special handling advice required.  
Avoid contact with skin and eyes.  
When using, do not eat, drink or smoke.  
For personal protection see section 8.

**STORAGE**

- Requirements for storage areas and containers** : No special storage conditions required.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep out of the reach of children.  
Keep away from food, drink and animal feed.
- Other data** : Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Components with workplace control parameters

| Components       | Exposure limit(s)                             | Value type                                       | Source            |
|------------------|---|--|-------------------|
| azoxystrobin     | 2 mg/m <sup>3</sup>                           | 8 h TWA  | SYNGENTA          |
| propane-1,2-diol | 10 mg/m <sup>3</sup><br>470 mg/m <sup>3</sup> | Particulates<br>Total (vapour &<br>particulates) | 8 h TWA<br>UK HSE |

#### ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

If airborne mists or vapors are generated, use local exhaust ventilation controls.

Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

Where necessary, seek additional occupational hygiene advice.

#### PERSONAL PROTECTIVE EQUIPMENT

- Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.
- Respiratory protection** : No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.
- Hand protection** : Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.
- Eye protection** : Eye protection is not usually required. Follow any site specific eye protection policies. Eye/face protection should be certified to EN 166.
- Skin and body protection** : No special protective equipment required. Select skin and body protection based on the physical job requirements.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : fluid
- Colour** : off-white to yellow orange
- Flash point** : > 97 °C at 97.5 kPa Pensky-Martens c.c.

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|                             |                             |
|-----------------------------|-----------------------------|
| <b>Oxidizing properties</b> | : not oxidizing             |
| <b>Density</b>              | : 1.09 g/cm <sup>3</sup>    |
| <b>Water solubility</b>     | : Miscible                  |
| <b>Viscosity, dynamic</b>   | : 117 - 541 mPa.s at 20 °C  |
|                             | : 76.0 - 427 mPa.s at 40 °C |

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**10. STABILITY AND REACTIVITY**

|   |   |
|---|---|
| <b>Hazardous decomposition products</b> | : Combustion or thermal decomposition will evolve toxic and irritant vapors.                |
| <b>Hazardous reactions</b>              | : None known.<br>Hazardous polymerization does not occur<br>Stable under normal conditions. |

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**11. TOXICOLOGICAL INFORMATION**

|                                  |  |
|----------------------------------|--|
| <b>Acute oral toxicity</b>       | : LD50 rat, > 2,000 mg/kg  |
| <b>Acute inhalation toxicity</b> | : LC50 rat, > 6.32 mg/l, 4 h<br>Based on test results obtained with similar product.   |
| <b>Acute dermal toxicity</b>     | : LD50 rat, > 4,000 mg/kg  |
| <b>Skin irritation</b>           | : rabbit: non irritant   |
| <b>Eye irritation</b>            | : rabbit: non irritant   |
| <b>Sensitization</b>             | : guinea pig<br>not sensitizing  |
| <b>Long term toxicity</b>        | <br>Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments. |

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**12. ECOLOGICAL INFORMATION****ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)**

- Stability in water** : Azoxystrobin is stable in water
- Stability in soil** : Azoxystrobin is not persistent in soil
- Mobility** : Azoxystrobin has low to very high mobility in soil

**ECOTOXICITY EFFECTS**

- Toxicity to fish** : LC50 Rainbow trout, 1.2 mg/l , 96 h  
: LC50 mirror carp, 2.8 mg/l , 96 h
- Toxicity to aquatic invertebrates** : EC50 Daphnia magna (water flea), 0.83 mg/l , 48 h
- Toxicity to algae** : ERC50 Pseudokirchneriella subcapitata (green algae), 2.2 mg/l , 72 h  
: EBC50 Pseudokirchneriella subcapitata (green algae), 0.71 mg/l , 72 h

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**13. DISPOSAL CONSIDERATIONS**

- Product** : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.
- Contaminated packaging** : Empty remaining contents.  
Triple rinse containers.  
Empty containers should be taken for local recycling or waste disposal.  
Do not re-use empty containers.

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**14. TRANSPORT INFORMATION**

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**Land transport***ADR/ RID:*

UN-No: 3082  
Class: 9  
Danger Label Number : 9  
Packaging group III  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(AZOXYSTROBIN )

**Sea transport***IMDG:*

UN-No: 3082  
Class: 9  
Danger Label Number : 9  
Packaging group: III  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(AZOXYSTROBIN 25% )

Marine pollutant : Marine pollutant

**Air transport***IATA-DGR*

Proper shipping name :

**Further information for transport:** Not classified as dangerous in the meaning of air transport regulations.

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**15. REGULATORY INFORMATION****labelling according to EEC Directive**

**Symbol(s):** : N Dangerous for the environment  
**R-phrase(s)** : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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|                     |   |        |  |
|---------------------|---|--------|--|
| <b>S-phrases(s)</b> | : | S 2    | 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.                            |
|                     |   | S35    | This material and its container must be disposed of in a safe way. |
|                     |   | S57    | Use appropriate containment to avoid environmental contamination.  |

**Exceptional labelling of special preparations** : To avoid risks to man and the environment, comply with the instructions for use.

**16. OTHER INFORMATION****Further information**

Text of R phrases mentioned in Section 2:

|               |  |
|---------------|--|
| <b>R22</b>    | Harmful if swallowed.  |
| <b>R23</b>    | Toxic by inhalation.   |
| <b>R36</b>    | Irritating to eyes.  |
| <b>R36/38</b> | Irritating to eyes and skin.   |
| <b>R50/53</b> | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

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