

AMISTAR

Version 2

Revision Date 05.02.2008

Print Date 05.02.2008

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

PRODUCT INFORMATION

Product name : AMISTAR

Design Code : A13367D

Use : Fungicide
This product must only be used for manufacturing of pesticides.

Company : Syngenta Crop Protection AG
Postfach
CH-4002 Basel
Switzerland

Telephone : +41 61 323 11 11

Telefax : +41 61 323 12 12

Emergency telephone : +44 1484 538444

E-mail address : safetydatasheetcoordination@syngenta.com



Dangerous for the environment

2. HAZARDS IDENTIFICATION

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

3. 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 R50/53	50 % W/W
naphthalenesulfonic acid, sodium salt, polymer with formaldehyde	9008-63-3		Xi	R36/38	1 - 5 % W/W

* indicates substances for which there are Community workplace exposure limits.
For the full text of the R-phrases mentioned in this Section, see Section 16.

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.
Keep patient warm and at rest.
Call a physician or Poison Control Centre immediately.

AMISTAR

Version 2

Revision Date 05.02.2008

Print Date 05.02.2008

- 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.

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
or
Water spray
- Extinguishing media which shall 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** : Wear full protective clothing and 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.

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 spillage, and then collect with non-combustible

AMISTAR

Version 2

Revision Date 05.02.2008

Print Date 05.02.2008

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.

7. HANDLING AND STORAGE**HANDLING**

Advice on safe handling : If allowed to dry, this material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion.
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 : 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 feedingstuffs.

AMISTAR

Version 2

Revision Date 05.02.2008

Print Date 05.02.2008

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
azoxystrobin	2 mg/m ³	8 h TWA	SYNGENTA

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.

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 : suspension
Colour : off-white to yellow-orange
pH : 6.3 at 1 % w/v (25 °C)
Flash point : > 100 °C at 759 mmHg Pensky-Martens c.c.
Minimum ignition temperature : 450 °C
Autoignition temperature : 630 °C

AMISTAR

Version 2

Revision Date 05.02.2008

Print Date 05.02.2008

Oxidizing properties	: not oxidizing
Explosive properties	: Not explosive
Density	: 1.18 g/cm ³
Solubility in other solvents	: Miscible in Water
Viscosity, dynamic	: 920 mPa.s at 25 °C
	: 77.8 - 579 mPa.s at 40 °C
	: 98.2 - 659 mPa.s at 20 °C

10. STABILITY AND REACTIVITY

Hazardous decomposition products	: Combustion or thermal decomposition will evolve toxic and irritant vapors.
Hazardous reactions	: None known. Hazardous polymerization does not occur. Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 female Rat, > 5,000 mg/kg GHS-Classification: None
----------------------------	---

Acute inhalation toxicity	: Median lethal concentration male and female Rat, > 2.77 mg/l, 4 h GHS-Classification:None
----------------------------------	---

Acute dermal toxicity	: LD50 male and female Rat, > 5,050 mg/kg GHS-Classification: None
------------------------------	--

Skin irritation	: Rabbit: Practically non-irritating. GHS-Classification: None
------------------------	--

Eye irritation	: Rabbit: Minimally Irritating GHS-Classification: None
-----------------------	---

Sensitisation	: guinea pig: Not a skin sensitizer in animal tests. GHS-Classification: None
----------------------	---

Long term toxicity

Did not show carcinogenic, teratogenic or mutagenic effects in

AMISTAR

Version 2

Revision Date 05.02.2008

Print Date 05.02.2008

animal experiments.

12. ECOLOGICAL INFORMATION**ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)****Bioaccumulation** : Azoxystrobin has medium bioaccumulation potential.**Stability in water** : Degradation half life: > 12 d at 25 °C
Azoxystrobin is stable in water.**Stability in soil** : Degradation half life : 59.5 d
Azoxystrobin is not persistent in soil.**Mobility** : Azoxystrobin has low to very high mobility in soil.**ECOTOXICITY EFFECTS****Toxicity to fish** : LC50 *Oncorhynchus mykiss* (rainbow trout), 0.94 mg/l , 96 h
GHS-Classification:
Category 1
Derived from components.**Toxicity to aquatic invertebrates** : EC50 *Daphnia magna* (Water flea), 0.56 mg/l , 48 h
GHS-Classification:
Category 1
Derived from components.**Toxicity to algae** : ErC50 *Pseudokirchneriella subcapitata* (green algae), 0.72 mg/l , 96 h
GHS-Classification:
Category 1
Derived from components.

13. DISPOSAL CONSIDERATIONS**Product** : Where possible recycling is preferred to disposal or incineration.
It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.**Contaminated packaging** : Dispose of as unused product.

14. TRANSPORT INFORMATION

AMISTAR

Version 2

Revision Date 05.02.2008

Print Date 05.02.2008

Land transport*ADR/ RID:*

UN-Number: 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-Number: 3082
Class: 9
Danger Label Number : 9
Packaging group: III
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(AZOXYSTROBIN)

Marine pollutant : Marine pollutant

Air transport*IATA-DGR*

UN-Number: 3082
Class: 9
Danger Label Number : 9
Packaging group: III
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(AZOXYSTROBIN)

15. REGULATORY INFORMATION**Labelling according to EC Directives**

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.

AMISTAR

Version 2

Revision Date 05.02.2008

Print Date 05.02.2008

S-phrases(s)	: S60	This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/ Safety data sheets.
	S61	

Note	: The product is classified and labelled in accordance with Directive 1999/45/EC.
-------------	--

16. OTHER INFORMATION**Further information**

Text of R-phrases mentioned in Section 3:

R23	Toxic by inhalation.
R36/38	Irritating to eyes and skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Product names are a trademark or registered trademark of a Syngenta Group Company.