

## HERITAGE MAXX

Version 1

Revision Date 04.09.2008

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

#### PRODUCT INFORMATION

**Product name** : HERITAGE MAXX  
**Design Code** : A13972A  
**Use** : Fungicide  
**Company** : Syngenta Crop Protection AG  
 Postfach  
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 Switzerland  
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Harmful



Dangerous for the environment

### 2. HAZARDS IDENTIFICATION

Harmful if swallowed.

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-phrases(s)	Concentration
azoxystrobin	131860-33-8		T, N	R23 R50/53	8.8 % W/W
TETRAHYDROFURFURYL ALCOHOL	97-99-4	202-625-6	Xi	R36	60 - 80 % W/W
poly(oxy-1,2-ethanediyl), alpha-[tris(1-phenylethyl)phenyl]-omega-hydroxy-	99734-09-5, 70559-25-0			R52/53	5 - 10 % W/W
Soprophor 3D33	90093-37-1, 114535-82-9		Xi	R36	5 - 10 % 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.

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**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.
- 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.

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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 spillage, and then collect 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 protective measures against fire 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 feedingstuffs.
- 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)	Type of exposure limit	Source
azoxystrobin	2 mg/m <sup>3</sup>	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** : liquid  
**Colour** : light amber to amber  
**pH** : 2 - 7 at 1 % w/v  
**Flash point** : 75 °C at 775 mmHg  
**Autoignition temperature** : 265 °C  
**Oxidizing properties** : not oxidizing

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- Explosive properties** : Not explosive
- Density** : 1.06 - 1.10 g/ml 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, 1,714 mg/kg  
GHS-Classification  
Category 4
- Acute inhalation toxicity** : Median lethal concentration male and female Rat, > 6.4 mg/l,  
4 h  
GHS-Classification  
None
- Acute dermal toxicity** : Median lethal dose male and female Rat, > 5,000 mg/kg  
GHS-Classification  
None
- Skin irritation** : Rabbit: Slightly Irritating  
GHS-Classification  
None
- Eye irritation** : Rabbit: Moderately 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 animal experiments.

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

- Bioaccumulation** : Azoxystrobin has medium bioaccumulation potential.

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- 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), 5.3 mg/l , 96 h  
GHS-Classification  
Category 2  
Derived from components.
- Toxicity to daphnia and other aquatic invertebrates.** : EC50 Daphnia magna (Water flea), 3.2 mg/l , 48 h  
GHS-Classification  
Category 2  
Derived from components.
- Toxicity to algae** : EbC50 Pseudokirchneriella subcapitata (green algae), 22.7 mg/l , 96 h  
ErC50 Pseudokirchneriella subcapitata (green algae), 4.1 mg/l , 96 h  
GHS-Classification  
Category 2  
Derived from components.

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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 to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

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**14. TRANSPORT INFORMATION**

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

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

**Sea transport***IMDG:*

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

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

Hazardous components which must be listed on the label:

- azoxystrobin

**Symbol(s)** : Xn Harmful  
N Dangerous for the environment

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<b>R-phrase(s)</b>	: R22 R51/53	Harmful if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>S-phrase(s)</b>	: S 2 S13  S20/21 S35  S57	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. Use appropriate container to avoid environmental contamination.
<b>Note</b>	: The product is classified and labelled in accordance with Directive 1999/45/EC.	
<b>Special labelling of certain preparations</b>	: To avoid risks to man and the environment, comply with the instructions for use.	

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

Text of R-phrases mentioned in Section 3:

<b>R23</b>	Toxic by inhalation.
<b>R36</b>	Irritating to eyes.
<b>R50/53</b>	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>R52/53</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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