

HERITAGE MAXX

Version 2 - This version replaces all previous versions.

Revision Date 09.08.2013

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name : HERITAGE MAXX

Design code : A13972A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use : Fungicide

1.3 Details of the supplier of the safety data sheet

Company Syngenta UK Limited
CPC4, Capital Park
Fulbourn, Cambridge
CB21 5XE

Telephone : (01223) 883400

Telefax : (01223) 882195

Website : www.greencast.co.uk

1.4 Emergency telephone number

: +44 (0) 1484 538444

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Acute toxicity (Oral)	Category 4	H302
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn, Harmful

N, Dangerous for the environment

R22: Harmful if swallowed.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.


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2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008


Hazard pictograms		
		
Signal Word	:Warning	
Hazard Statements	:H302 :H410	Harmful if swallowed. Very toxic to aquatic life with long lasting effects.
Precautions Statements	:P102 :P270 :P273 :P301/P312 :P391 :P501	Keep out of reach of children Do not eat, drink or smoke when using this product. Avoid release to the environment. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Collect spillage. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Supplemental Information	: EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

- TETRAHYDROFURFURYLALCOHOL

Labelling: EU Directives 67/548/EEC or

1999/45/EC

Symbol(s)		
		
HARMFUL	DANGEROUS FOR THE ENVIRONMENT	
R-phrases)	R22 R51/53	Harmful if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases)	S2 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 or in a safe way Use appropriate containment to avoid environmental contamination
Special labelling of certain mixtures		To avoid risks to man and the environment, comply with instructions for use.

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Hazardous components which must be listed on the label:

- TETRAHYDROFURFURYLALCOHOL

2.3 Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
TETRAHYDRO FURFURYL ALCOHOL	97-99-4 202-625-6 05-2116078354-42-0000	Xn R22 R36	Acute Tox.4; H302 Eye Irrit.2; H319	60 - 80 % W/W
poly(oxy-1,2-ethanediyl)-[2,4,6-tris(1-phenylethyl)phenyl]-hydroxy-azoxystrobin	99734-09-5 70559-25-0	R52/53	Aquatic Chronic3; H412	10 - 15 % W/W
	131860-33-8	T, N R23 R50/53	Acute Tox.3; H331 Aquatic Acute1; H400 Aquatic Chronic1; H410	8.8 % W/W
poly(oxy-1,2-ethanediyl), alpha-phosphono- omega-[2,4,6-tris(1-phenylethyl)phenoxy]	90093-37-1 114535-82-9 618-446-5	Xi R36	Eye Irrit.2; H319	1 - 5 % W/W

Substances for which there are Community workplace exposure limits.

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of 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 centre or physician, or going for treatment.
- Inhalation : Move the victim 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.

4.2 Most important symptoms and effects, both acute and

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delayed Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice : There is no specific antidote available.
Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media**
Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Use alcohol-resistant foam or water spray.
Do not use a solid water stream as it may scatter and spread fire.
- 5.2 Special hazards arising from the substance or mixture**
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.
- 5.3 Advice for fire-fighters:**
Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Refer to protective measures listed in sections 7 and 8.
- 6.2 Environmental precautions:**
Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
- 6.3 Methods and materials for containment and 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). If the product contaminates rivers and lakes or drains inform respective authorities.
- 6.4 Reference to other sections**
Refer to protective measures listed in sections 7 and 8.
Refer to disposal considerations listed in section 13.

SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions for 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.
- 7.2 Conditions for safe storage, including any incompatibilities**
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.

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7.3

Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

8.2 Exposure controls

- 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 mist or vapours 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.
- 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical

properties

- Physical State : Liquid
- Form : liquid
- Colour : Light amber to amber
- Odour : Faint aromatic
- Odour Threshold : No data available
- pH : 2 - 7 at 1 % w/v (as aqueous solution)
- Melting point/range : No data available
- Boiling point/boiling range : No data available

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Flash point	:	75 °C at 775 mm Hg
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	1.06 – 1.10 g/ml at 20 °C
Solubility in other solvents	:	No data available
Partition Coefficient	:	No data available
n-octanol/water		
Autoignition temperature	:	265 °C
Thermal decomposition	:	No data available
Viscosity, dynamic	:	42.1 mPa.s at 20°C 29.1 mPa.s at 40°C
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Not oxidising

9.2 Other information

Surface tension : 40.3 mN/m at 20 °C

SECTION 10. STABILITY AND REACTIVITY

10.1	Reactivity	:	No information available
10.2	Chemical Stability	:	No information available
10.3	Possibility of hazardous reactions	:	None known. Hazardous polymerisation does not occur.
10.4	Conditions to avoid	:	No information available
10.5	Incompatible materials	:	No information available
10.6	Hazardous decomposition products	:	Combustion or thermal decomposition will evolve toxic and irritant vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	:	LD50 female rat, 1,714 mg/kg
Acute inhalational toxicity	:	LC50 male and female rat, > 6.4 mg/l, 4 h
Acute dermal toxicity	:	LD50 male and female rat, > 5,000 mg/kg
Skin corrosion/irritation	:	rabbit: Slightly irritating
Serious eye damage/eye irritation	:	rabbit: Moderately irritating
Respiratory or skin sensitisation	:	guinea pig: Not a skin sensitizer in animal tests.
Germ cell mutagenicity	:	
azoxystrobin	:	Did not show mutagenic effects in animal experiments.
Carcinogenicity	:	
azoxystrobin	:	Did not show carcinogenic effects in animal experiments.
Reproductive toxicity	:	
azoxystrobin	:	Did not show reproductive toxicity effects in animal experiments.
STOT – repeated exposure	:	
azoxystrobin	:	No adverse effect has been observed in chronic toxicity tests.

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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

- Toxicity to fish** : LC50 *Oncorhynchus mykiss* (rainbow trout), 2.73 mg/l, 96h
Toxicity to aquatic invertebrates : EC50 *Daphnia magna* (Water flea), 4.20 mg/l, 48h
Toxicity to aquatic plants : EbC50 *Pseudokirchneriella subcapitata* (green algae), 2.12 mg/l, 96 h
 ErC50 *Pseudokirchneriella subcapitata* (green algae), 12.02 mg/l, 96 h

12.2 Persistence and degradability

- Biodegradability**
 azoxystrobin : Not readily biodegradable.
Stability in water
 azoxystrobin : Degradation half-life: 214 d. The substance is stable in water.
Stability in soil
 azoxystrobin : Degradation half life: 80 d. Not persistent in soil.

12.3 Bioaccumulative potential

- azoxystrobin : Does not bioaccumulate.

12.4 Mobility in soil

- azoxystrobin : low to very high mobility in soil.

12.5 Results of PBT and vPvB assessment

- azoxystrobin : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
 This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

- Other information** : Classification of the product is based on the summation of the concentrations of classified components.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- 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.

SECTION 14. TRANSPORT INFORMATION

Land transport (ADR/RID)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

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			LIQUID, N.O.S. (AZOXYSTROBIN)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
	Labels	:	9
14.5	Environmental hazards	:	Environmentally hazardous

Sea transport(IMDG)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
	Labels	:	9
14.5	Environmental hazards	:	Marine pollutant

Air transport (IATA-DGR)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
	Labels	:	9
14.6	Special precautions for user	:	None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

GHS-Labeling

Hazard pictograms



Signal Word :Warning

Hazard Statements :H302 Harmful if swallowed.
:H410 Very toxic to aquatic life with long lasting effects.

Precautions :P102 Keep out of reach of children

Statements :P270 Do not eat, drink or smoke when using this product.
:P273 Avoid release to the environment.
:P301/P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
:P391 Collect spillage.

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	:P501	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Supplemental Information	: EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

- TETRAHYDROFURFURYLALCOHOL

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Approval number, MAPP 14787.

Use plant protection products safely. Always read the label and product information before use.

Based upon SDS release dated 09/08/2013, version 2 with local amendment.

Full text of R-phrases referred to under sections 2 and 3:

- | | |
|--------|--|
| R22 | Harmful if swallowed. |
| R23 | Toxic by inhalation. |
| R36 | Irritating to eyes. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Full text of H-Statements referred to under sections 2 and 3.

- | | |
|------|---|
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

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