

Version 11 - This version replaces all previous versions.

Revision Date 08.08.2013

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

1.1 Product identifier

Product name : HERITAGE

Design code : A12704A

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 aquatic toxicity

Chronic aquatic toxicity

Category 1

H400

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

N, Dangerous for the environment

R50/53: Very 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 :H410 Very toxic to aquatic life with long lasting effects.

Precautions Statements :P273 Avoid release to the environment.

> :P391 Collect spillage.

: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 : EUH401 To avoid risks to human health and the environment

Information comply with the instructions for use.

Hazardous components which must be listed on the label:

Labelling: EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)



DANGEROUS FOR THE ENVIRONMENT

R-phrase(s) :R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

S-phrase(s) S2 Keep out of the reach of children

> Keep away from food, drink and animal feedingstuffs S13

S20/21 When using do not eat, drink or smoke

S35 This material and its container must be disposed or in a safe way **S57** Use appropriate containment to avoid environmental contamination

Special labelling of certain To avoid risks to man and the environment, comply with instructions for

mixtures use.

2.3 Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

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Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
azoxystrobin	131860-33-8	T, N R23 R50/53	Acute Tox.3; H331 Aquatic Acute1; H400 Aquatic Chronic1; H410	50 % W/W
naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methyl- naphthalenesulfonic acid, sodium salt		Xi R36/38	Eye Irrit.2; H319 Skin Irrit.2; H315	1 - 10 % W/W
sulfuric acid, mono-C12-18-alkyl esters, sodium salts	68955-19-1 273-257-1	Xi R38 R41	Skin Irrit.2; H315 Eye Dam.1; H318	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 center 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 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.

SECTION5. FIRE-FIGHTING 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.

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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:

Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local (see section 13). Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly. 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.

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/m3	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

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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 dust is 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 measuresThe 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 : Solid Form : Granules

Colour: yellow to light brownOdour: characteristicOdour Threshold: No data available

pH : 4 – 8 at 1 % w/v (aqueous suspension)

Melting point/range No data available Boiling point/boiling range No data available Flash point No data available **Evaporation rate** No data available Flammability (solid, gas) Not highly flammable Lower explosion limit No data available Upper explosion limit No data available Vapour pressure No data available Relative vapour density No data available

Density : 0.54 g/cm³

Solubility in other solvents : No data available Partition Coefficient : No data available

n-octanol/water

Autoignition temperature:No data availableThermal decomposition:No data availableViscosity, dynamic:No data availableViscosity, kinematic:No data availableExplosive properties:Not explosiveOxidizing properties:Not oxidising

9.2 Other Information

: No data available

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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : No information available 10.2 Chemical Stability No information available

10.3 Possibility of hazardous None known. Hazardous polymerisation does not reactions occur.

10.4 Conditions to avoid No information available 10.5 Incompatible materials No information available

Combustion or thermal decomposition will evolve 10.6 Hazardous decomposition

products toxic and irritant vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD50 male and female rat, > 5,000 mg/kg

The toxicological data has been taken from products of similar

composition.

Acute inhalational toxicity LC50 rat, > 4.67 mg/l, 4 h

The toxicological data has been taken from products of similar

composition.

Acute dermal toxicity LD50 male and female rat, > 2,000 mg/kg

The toxicological data has been taken from products of similar

composition.

Skin corrosion/irritation rabbit: Non-irritating

The toxicological data has been taken from products of similar

composition.

Serious eye damage/eye

irritation

rabbit: Non-irritating

The toxicological data has been taken from products of similar

composition.

Respiratory or skin

sensitisation

guinea pig: Not a skin sensitizer in animal tests.

The toxicological data has been taken from products of similar

composition.

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

STOT - repeated exposure

azoxystrobin

No adverse effect has been observed in chronic toxicity tests.

Did not show reproductive toxicity effects in animal experiments.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout), 1.1 mg/l, 96 h

LC50 Lepomis macrochirus (Bluegill sunfish), 2.4 mg/l, 96 h

Toxicity to aquatic invertebrates

EC50 Daphnia magna (water flea), 0.0018 mg/l, 48 h

EbC50 Pseudokirchneriella subcapitata (green algae), 0.12 mg/l, 72 h Toxicity to aquatic plants ErC50 Pseudokirchneriella subcapitata (green algae), 0.95 mg/l, 72 h

12.2 Persistence and degradability

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Biodegradability

azoxystrobin : Not readily biodegradable.

Stability in water

azoxystrobin : Degradation half life: 214 d, 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 : azoxystrobin has 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

None known

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 3077
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, 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 3077
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
			SOLID, 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 3077

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14.2	UN proper shipping name		ENVIRONMENTALLY HAZARDOUS SUBSTANCE,	
			SOLID, N.O.S.(AZOXYSTROBIN)	
14.3	Transport hazard class(es)	:	9	
14.4	Packing Group	;	III	1
Label	s	:	9	1
14.6	Special precautions for user	:	none	1

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-Labelling

Hazard pictograms Signal Word :Warning **Hazard Statements** Very toxic to aquatic life with long lasting effects. :H410 **Precautions Statements** :P273 Avoid release to the environment. :P391 Collect spillage. :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 : EUH401 To avoid risks to human health and the environment Information comply with the instructions for use.

Hazardous components which must be listed on the label:

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Approval number, MAPP 13536.

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

Based upon SDS release dated 08/08/2013, version 11 with local amendment.

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

R23 Toxic by inhalation.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

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

H315 Causes skin irritation.

H318 Causes serious eye damage. 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.

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.

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