NOTE TO SUPPLIER: REPEAT PAGE IS USED

Heritage®

Fungicide

syngenta®

GROUP 11 FUNGICIDE F

Water dispersible granule formulation containing 500g/kg azoxystrobin.

A systemic strobilurin fungicide for the control of Fusarium patch, Take-all patch, Anthracnose, Brown patch, Leaf spot / Melting out, Rust diseases and Type 2 Fairy Rings.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

In case of toxic or transport emergency ring +44 (0) 1484 538444 any time.

500 g

PROTECT FROM FROST

L1088588 GBRI/05A PPE 4160776 1858/2016

20mm BOOKLET SPINE SHOULD BE KEPT VARNISH FREE

HERITAGE

FOR PROFESSIONAL USE ONLY

To avoid risks to human health and the environment, comply with the instructions for use.

BRAND LOGO/NAME
LOGO/NOM DE MARQUE

Contains 500g/kg azoxystrobin as a water dispersible granule.

Warning

Very toxic to aquatic life with long lasting effects.

Avoid release to the environment.

Collect spillage.

Apply appropriate measuring cup number or remove measuring icon as necessary

Dispose of contents/container to a licensed hazardous-waste disposal contactor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

MAPP 13536 **PCS** 05062

IMPORTANT INFORMATION

FOR USE ONLY AS A HORTICULTURAL FUNGICIDE.
For use on managed Amenity Turf.

Maximum individual dose:	0.5kg product per hectare
Maximum number of treatments:	Four per annum
Latest time of application:	Not applicable

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

Approval Holder and UK Marketing Company	Ireland Marketing Company
Syngenta UK Limited CPC 4, Capital Park, Fulbourn Cambridge CB21 5XE Tel: +44 (0)1223 883400	Syngenta Ireland Ltd. Block 6, Cleaboy Business Park, Old Kilmeaden Road, Waterford Tel: (051) 3777203

Tracing data is printed on booklet spine. L & PPE numbers must be sympathetically in both bottom corners with a white background behind them.

This product label is compliant with the CPA Voluntary Initiative (VI) guidance

The Voluntary Initiative

L1088588 GBRI/05A PPE 4160776 1858/2016

ADDITIONAL SAFETY INFORMATION

(a) Operator protection

Engineering controls of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate or handling contaminated surfaces.
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when applying by hand-held equipment
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
WASH HANDS before eating and drinking and after work.

(b) Environmental protection

RISK TO NON-TARGET INSECTS OR OTHER ARTHROPODS. See Directions for Use.
To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.
DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1 m of the top of the bank of a static or flowing water body. Aim spray away from water. This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) Scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.
Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

(c) Storage and disposal

Store away from seeds, fertilizers and composts.
WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.
KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

RESTRICTIONS

Prevent spray drift on to surrounding areas. Do not apply when ground is frozen or during drought.

Avoid spraying within 5m of the field boundary to reduce effects on non-target insects or other arthropods.

Do not use HERITAGE where there is a risk of spray drift onto neighbouring apple, crab apple, cherry, plum trees or privet. DO NOT use equipment used to apply HERITAGE to treat these crops as unacceptable damage may occur.

DISEASES CONTROLLED

HERITAGE is an effective systemic fungicide, providing control of Fusarium Patch disease caused by *Microdochium nivale*, Take-All Patch disease caused by *Gaeumannomyces graminis*, Anthracnose caused by *Colletotrichum graminicola* (moderate control), Brown patch caused by *Rhizoctonia solani*, Leaf spot / Melting out caused by *Drechslera poae*, Rust diseases caused by Puccinia spp. and Type 2 Fairy Rings * in managed established amenity turf and amenity grassland.

* QUALIFIED MINOR USE RECOMMENDATION. On the basis of limited evidence HERITAGE will reduce the effects of Type 2 Fairy Rings.

HERITAGE contains the strobilurin fungicide azoxystrobin (QoI).

RESISTANCE MANAGEMENT

Some turf disease pathogens are known to have developed resistance to products used repeatedly for their control. To ensure best control, HERITAGE should be applied at full use rates following the guidance below.

Do not apply more than 2 sequential applications of HERITAGE or any product containing a QoI fungicide.
Alternate with a fungicide having a different mode of action.
Do not apply more than 4 applications per year of any product containing a QoI fungicide.

For further advice on resistance management in turf contact your agronomist or specialist advisor and visit the FRAG-UK website.

CROP SPECIFIC INFORMATION
Best results will be achieved when HERITAGE is applied as a preventive treatment at the very earliest stages of disease symptom expression.

Begin applications when conditions are favourable for disease infection, at the beginning of disease symptom expression.

Fusarium Patch (*Microdochium nivale*), Anthracnose (*Colletotrichum graminicola*) – moderate control, Brown patch (*Rhizoctonia solani*), Leaf spot / Melting out (*Drechslera poae*), Rust diseases (*Puccinia spp.*)
Use HERITAGE in a disease control programme, alternating applications of HERITAGE with fungicides with different modes of action.

The total number of HERITAGE applications applied per annum must not exceed a third of the total number of fungicide applications, up to a maximum of 4 applications. Do not apply more than 2 sequential HERITAGE applications.

Take All Patch (*Gaeumannomyces graminis*)
Apply HERITAGE as a preventative treatment at the full label use rate. Begin application when conditions are favourable for disease infection prior to disease symptom development. Make 2 applications 14 days apart in the spring and 2 applications 14 days apart in the autumn.In addition, utilise management practices, which encourage healthy turf and reduce turf stress.

Type 2 Fairy Rings
On the basis of limited evidence, HERITAGE will reduce the effects of Type 2 Fairy Rings.For best results applications should be made with the addition of a wetting agent to sufficiently wet the soil to allow the HERITAGE to get to the basidiomycete.

Timing
Repeat at minimum intervals of 2 weeks. The maximum number of HERITAGE applications per annum is 4 OR as described in the Resistance Management section of this label.

Rate of Use
Apply 0.5 kg HERITAGE in 125 – 1000 L per hectare (UK only) or 800 -1000 L per hectare (Ireland). For spot treatments, use 5 grams HERITAGE per 8 - 10 L of water. For optimum control of take-all patch, repeat application at the minimum interval.

MIXING AND SPRAYING
HERITAGE fungicide may be applied with all types of spray equipment commonly used for making ground applications. Do not apply through ULV sprayers.

Ensure that the sprayer is clean and set to give the correct volume and an even deposit. Do not allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use.

Thoroughly wash all spraying equipment immediately after use using two to three rinses of clean water. Do not use silicone based products with HERITAGE.

Tractor mounted/trailed sprayers: Half fill the spray tank with water and begin agitation. Add the required quantity of HERITAGE to the tank and complete filling. Continue agitation until spraying is completed.

Hand-held sprayers: Half fill the spray tank with clean water and add the required quantity of HERITAGE to the tank. Complete filling, mix thoroughly and use immediately.

Good Field Practice
As part of our Product Stewardship policy, Syngenta Crop Protection recommends the following precautions should also be observed:- Wear appropriate clothing - coveralls and protective gloves, when handling the concentrate.HERITAGE® is a Registered Trademark of a Syngenta Group Company.

For further information please see www.greencast.co.uk or www.greencast.ie

Section 6 of the Health and Safety at Work Act
Additional Product Safety Information (UK only)

(This section does not form part of the product label under the Plant Protection Products Regulations 1995.)

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has 'Extension of Use' approval or is otherwise permitted under the Plant Protection Products Regulations. (UK only)

The information on this label is based on the best available information including data from test results.

SAFETY DATA SHEET

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

Phone: (01223) 883400

Fax: (01223) 882195

Website: www.syngenta.co.uk

1.4 Emergency telephone number

Emergency phone No.: **+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, Category 1 — H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1 — H410: Very toxic to aquatic life with long lasting effects.

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.
Supplemental Hazard Statements	EUH401	To avoid risks to human health and the environment comply with the instructions for use.
Precautionary Statements	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.

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 (REGULATION (EC) No. 1272/2008	Concentration (%)
azoxystrobin	131860-33-8	Acute Tox.3; H331 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 50 - < 70
naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methyl- naphthalene-sulfonic acid, sodium salt	Not Assigned	Eye Irrit.2; H319 Skin Irrit.2; H315	>= 5 - < 10
sulfuric acid, mono-C12-18-alkyl esters, sodium salts	68955-19-1 273-257-1 01-2119490225-39	Skin Irrit.2; H315 Eye Dam.1; H318	>= 1 - < 3

For explanation of abbreviations see section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

General advice : Have the product container, label or Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.
If inhaled : 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.
In case of 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.
In case of 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.
If swallowed : 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

Treatment: There is no specific antidote available. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable 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.
Unsuitable extinguishing media:
Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: 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

Special protective equipment for firefighters: 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8. Avoid dust formation.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections
Refer to disposal considerations listed in section 13., Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe 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.

7.2 Conditions for safe storage, including any incompatibilities
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.

7.3 Specific end use(s)
Specific use(s) : 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
Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
azoxystrobin	131860-33-8	TWA	4 mg/m^3	Syngenta
kaolin	1332-58-7	TWA (alveolate dust)	3 mg/m^3	CH SUVA
Further information	If the kaoline contains quartz, take its limit value into account			

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 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.

Personal protective equipment
Eye protection : No special protective equipment required.
Hand protection
Remarks : No special protective equipment required.
Skin and body protection : No special protective equipment required. Select skin and body protection based on the physical job requirements.
Respiratory protection : No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance :	solid
Colour :	yellow to light brown
Odour :	none
pH :	4 - 8, Concentration: 1 % w/v
Density :	0.54 g/cm3
Explosive properties :	Classification Code: Not explosive
Oxidizing properties :	not oxidizing

9.2 Other Information
No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity
See section 10.3 “Possibility of hazardous reactions”.

10.2 Chemical stability
The product is stable when used in normal conditions.

10.3 Possibility of hazardous reactions
Hazardous reactions : No hazardous reactions by normal handling and storage according to provisions.

10.4 Conditions to avoid
Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : No substances are known which lead to the formation of hazardous substances or thermal reactions.

10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapors.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Remarks: The toxicological data has been taken from products of similar composition.

Acute inhalation toxicity : LC50 (Rat): > 4.67 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: The toxicological data has been taken from products of similar composition.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: The toxicological data has been taken from products of similar composition.

Components:

azoxystrobin:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, female): 0.7 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
LC50 (Rat, male): 0.9 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

sulfuric acid, mono-C12-18-alkyl esters, sodium salts:

Acute oral toxicity : LD50 (Rat, male and female): 2,600 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product:

Species: Rabbit
Result: No skin irritation
Remarks: The toxicological data has been taken from products of similar composition.

Components:

azoxystrobin:

Species: Rabbit
Result: No skin irritation

naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt:

Species: Rabbit
Result: Irritating to skin.

sulfuric acid, mono-C12-18-alkyl esters, sodium salts:

Species: Rabbit
Result: Irritating to skin.

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: No eye irritation
Remarks: The toxicological data has been taken from products of similar composition.

Components:

azoxystrobin:

Species: Rabbit
Result: No eye irritation

naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt:

Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

sulfuric acid, mono-C12-18-alkyl esters, sodium salts:
Species: Rabbit
Result: Risk of serious damage to eyes.
Respiratory or skin sensitisation
Product:
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
Remarks: The toxicological data has been taken from products of similar composition.
Components:
azoxystrobin:
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
sulfuric acid, mono-C12-18-alkyl esters, sodium salts:
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
Germ cell mutagenicity
Components:
azoxystrobin:
Germ cell mutagenicity- Assessment: Animal testing did not show any mutagenic effects.
sulfuric acid, mono-C12-18-alkyl esters, sodium salts:
Germ cell mutagenicity- Assessment: In vitro tests did not show mutagenic effects
Carcinogenicity
Components:
azoxystrobin:
Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.
Reproductive toxicity
Components:
azoxystrobin:
Reproductive toxicity - Assessment: No toxicity to reproduction
Repeated dose toxicity
Components:
azoxystrobin:
Remarks: No adverse effect has been observed in chronic toxicity tests.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish :	LC50 (*Oncorhynchus mykiss* (rainbow trout)): 1.1 mg/l Exposure time: 96 h LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 2.4 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates :	EC50 (*Daphnia magna* (Water flea)): 0.0018 mg/l Exposure time: 48 h
Toxicity to algae :	EbC50 (*Pseudokirchneriella subcapitata* (green algae)): 0.12 mg/l Exposure time: 72 h ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 0.95 mg/l Exposure time: 72 h

Components:
azoxystrobin:

Toxicity to fish :	LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0.47 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates:	EC50 (*Daphnia magna* (Water flea)): 0.28 mg/l Exposure time: 48 h EC50 (Americamysis bahia (Mysid shrimp)): 0.055 mg/l Exposure time: 96 h
Toxicity to algae :	ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 2 mg/l Exposure time: 96 h NOErC (*Pseudokirchneriella subcapitata* (green algae)): 0.038 mg/l Exposure time: 96 h ErC50 (*Navicula pelliculosa* (Freshwater diatom)): 0.301 mg/l Exposure time: 96 h
M-Factor (Acute aquatic toxicity):	10
Toxicity to bacteria :	IC50 (*Pseudomonas putida*): > 3.2 mg/l Exposure time: 6 h
Toxicity to fish (Chronic toxicity):	NOEC: 0.16 mg/l Exposure time: 28 d Species: *Oncorhynchus mykiss* (rainbow trout) NOEC: 0.147 mg/l

	Exposure time: 33 d Species: *Pimephales promelas* (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	NOEC: 0.044 mg/l Exposure time: 21 d Species: *Daphnia magna* (Water flea) NOEC: 0.0095 mg/l Exposure time: 28 d Species: *Americamysis bahia* (Mysid shrimp)
M-Factor (Chronic aquatic toxicity):	10

sulfuric acid, mono-C12-18-alkyl esters, sodium salts:

Toxicity to fish :	LC50 : 17 mg/l Exposure time: 96 h Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates:	EC50 (*Daphnia magna* (Water flea)): 15 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae :	ErC50 (Algae): 20 mg/l Exposure time: 72 h NOErC (Algae): 3 mg/l Exposure time: 72 h
Toxicity to bacteria :	EC50 (Bacteria): 680 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity):	NOEC: 0.11 - 0.35 mg/l Exposure time: 34 d Species: Fish
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	NOEC: 0.419 mg/l Exposure time: 7 d Species: *Daphnia* (water flea)

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Components:

azoxystrobin:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 214 d

Remarks: The substance is stable in water.

sulfuric acid, mono-C12-18-alkyl esters, sodium salts:

Biodegradability : Result: Readily biodegradable

12.3 Bioaccumulative potential:

Components:

azoxystrobin:

Bioaccumulation : Remarks: Does not bioaccumulate.

12.4 Mobility in soil:

Components:

azoxystrobin:

Distribution among environmental compartments: Remarks: Azoxystrobin has low to very high mobility in soil.

Stability in soil : Percentage dissipation: 50 % (DT50: 80 d)

Remarks: Not persistent in soil.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

azoxystrobin:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Product:

Components:

azoxystrobin:

Additional ecological information: Remarks: No data available

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
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
14.6 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 regulation/legislation specific for the substance or mixture

Other regulations : Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16. OTHER INFORMATION

Approval number, MAPP 13536, PCS No. 05062.

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

Based upon SDS release dated 17/02/2016, version 12 with local amendment.

Full text of H-statements:

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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