Priori[®] Gold

syngenta_®

GROUP **311** FUNGICIDES

Product registration number: MAPP 19226 UFI: Y8P3-00CV-H00H-HMEG

A suspension concentrate containing 125 g/l azoxystrobin and 125 g/l difenoconazole.

For the moderate control of Sclerotinia stem rot (Sclerotinia sclerotiorum) and reduction on Phoma lingam on oilseed rape. For the control of Ramularia beticola. Cercospora leaf spot (Cercospora beticola) and moderate control of rust (Uromvces betae), powderv mildew (Ervsiphe betae) in sugarbeet and fodder beet.

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

Syngenta UK Limited

CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE Tel: Cambridge (01223) 883400

SHAKE WELL BEFORE USE. PROTECT FROM FROST

SAFETY PRECAUTIONS (a) Operator protection

WHEN USING DO NOT EAT DRINK OR SMOKE, WASH SPLASHES from skin and eves immediately. DO NOT BREATHE SPRAY, IF YOU FEEL UNWELL, seek medical advice immediately (show label where possible). WASH HANDS AND EXPOSED SKIN before meals and after work

5 litres

Product names marked @ or ™ the ALLIANCE EBAME the SYNGENTA Logo and the PURPOSE ICON a re Trademarks of a Syngenta Group Company

(b) Environmental protection

To protect aquatic organisms, respect an unsprayed buffer zone distance to surface water bodies in line LEPAD with LEBAP requirements. DO NOT ALLOW DIRECT SPBAY from horizontal boom spravers 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. Aim spray away from water. This product qualifies for inclusion within the Local Environmental Bisk Assessment for Pesticides (LEBAP) Scheme. Before each spraying operation from a horizontal boom spraver or broadcast air assisted spraver either a LEBAP must be carried out in accordance with CBD 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 farmvards and roads.

(c) Storage and disposal

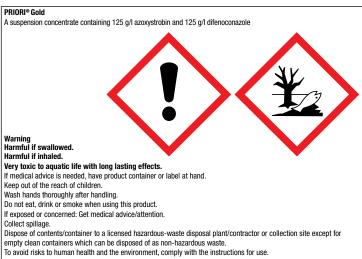
KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place. KEEP AWAY FROM FOOD DRINK AND ANIMAL FEEDING STUFFS, KEEP OUT OF REACH OF CHILDREN, BINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing devise or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely. DO NOT RE-LISE CONTAINER FOR ANY PURPOSE



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



1 1088450 GBRI/05A PPE 4160432



Contains 1,2-benzisothiazol-3-one. May product an allergic reaction.

MAPP: 19226 UFI: Y8P3-00CV-H00H-HMFG

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Сгор	Max. individual dose (litres of product per hectare)	Max. number of applications	Latest time of application
Winter Oilseed rape	1	2	Up to and including end of flowering (BBCH GS69)
Spring Oilseed rape	1	1	Up to and including end of flowering (BBCH GS69)
Sugarbeet and fodder beet	1	2	Up to and including beet root has reached harvestable size (BBCH GS49), and not less than 35 days before harvest

Other Specific Restrictions:

Do not apply by hand-held equipment.

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.

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

Certain apple varieties are highly sensitive to azoxystrobin. As a precaution PRIORI[®] Gold should not be applied when there is a risk of spray drift onto neighbouring apple crops. Spray equipment used to apply PRIORI Gold to other crops should not be used to treat apples.

GENERAL INFORMATION

PRIORI Gold is a suspension concentrate containing 125 g/l azoxystrobin and 125 g/l difenoconazole. PRIORI Gold has systemic activity, with protectant properties for use in all commercial varieties of winter and spring oilseed rape, sugarbeet and fodder beet.

DISEASES CONTROLLED

<u>Oilseed Rape</u> Sclerotinia stem rot (*Sclerotinia sclerotiorum*) – moderate control Stem canker (*Phoma lingam*) - reduction

Sugarbeet and fodder beet

Powdery mildew (*Erysiphe betae*) – moderate control Rust (*Uromyces betae*) – moderate control Ramularia leaf spot (*Ramularia beticola*) Cercospora leaf spot (*Cercospora beticola*)

CROP SPECIFIC INFORMATION

OILSEED RAPE

Before applying PRIORI Gold, ensure the crop is free from any stress caused by environmental or agronomic effects. Best results will be achieved from applications made as a protectant treatment following a disease risk assessment or the use of appropriate decision support systems.

WINTER OILSEED RAPE

A maximum of only two applications can be made per winter oilseed rape crop.

Stem canker (Phoma lingam)

Timing

Spray protectively with 1 litre of PRIORI Gold per hectare in the Autumn for the reduction of Stem canker (*Phoma lingam*) from the 4 expanded true leaf stage (GS 14). Where appropriate, a second application can be made in the Spring from the start of stem elongation and no later than individual flower bud visible (GS 30-55).

Rate Of Use

1 litre per hectare. Two applications per crop.

Sclerotinia stem rot (Sclerotinia sclerotiorum) - moderate control

Timing

Spray one application protectively with 1 litre of PRIORI Gold per hectare in the Spring for the moderate control of Sclerotinia stem rot (*Sclerotinia sclerotiorum*) from yellow bud until the end of flowering (GS 59-69).

Rate Of Use

1 litre per hectare. One application per crop.

SPRING OILSEED RAPE

A maximum of only one application can be made per spring oilseed rape crop.

Stem canker (Phoma lingam)

Timing

Apply 1 litre of PRIORI Gold per hectare from stem elongation and no later than individual flower bud stage (GS 30-55).

Rate Of Use

1 litre per hectare. One application per crop

Sclerotinia stem rot (Sclerotinia sclerotiorum) - moderate control

Timing

Apply 1 litre of PRIORI Gold per hectare between yellow bud and the end of flowering (GS 59-69).

Rate Of Use

1 litre per hectare. One application per crop

SUGARBEET AND FODDER BEET

Timing

Apply PRIORI Gold at the first signs of the disease, before the disease becomes established. PRIORI Gold gives prolonged protection from re-infection, but a second application can be applied where crops are at risk from later attacks.

Apply PRIORI Gold only between Crop cover complete: leaves cover 90% of ground and beet root has reached harvestable size (BBCH GS39-49).

Rate Of Use

1 litre per hectare.

Two applications per crop allowing a minimum interval of 21 days between applications.

MIXING AND SPRAYING

Ensure that the sprayer is clean and correctly set to give an even application at the required volume. Half-fill the spray tank with clean water and start agitation. Shake the container and add the required amount of PRIORI Gold to the sprayer using a filling device (e.g. induction bowl or closed transfer unit) or by direct addition to the sprayer tank.

Wash out containers thoroughly, preferably using an integrated pressure rinsing device, or manually rinse three times. Add washings to the sprayer at the time of filling. Complete filling to the required volume and continue to agitate throughout the spraying operation.

Do not leave the spray liquid in the sprayer for long periods (such as during meal breaks or overnight).

Volume of Water and Spraying

Apply in a recommended 200-400 litres of water per hectare using a medium quality spray (BCPC) at a pressure of at least 2 bar. Apply through conventional crop spraying equipment.

After Spraying

Thoroughly wash out sprayer according to the manufacturer's guidelines and dispose of washings and clear containers according to DEFRA Code of Practice and local water authority guidelines

RESISTANCE MANAGEMENT

PRIORI Gold contains azoxystrobin, a strobilurin belonging to the Quinone outside inhibitors (QoI) (FRAC group 11) and difenoconazole, a demethylation inhibitor (DMI) fungicide (FRAC group 3). The number of QoI containing applications should be no more than ½ (50%) of the total number of fungicide applications per season. Strains of Light Leaf Spot resistant to DMI fungicides are known to exist. To avoid development of resistance, apply product protectively in response to disease forecasts and should not be relied upon for its curative potential.

Where possible, when Light Leaf Spot is present, avoid the use of DMI based fungicides when targeting other diseases such as Sclerotinia at mid flowering.

Use PRIORI Gold as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including where appropriate other fungicides with a different mode of action.

To avoid the likelihood of resistance developing, application of PRIORI Gold should be made with due regard to current FRAG-UK guidelines for Qol compounds. Do not apply more than a total of <u>two</u> applications, when used as part of a programme.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack.

Section 6 of the Health and Safety at Work Act Additional Product Safety Information

(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.

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

Safety Data Sheet V1

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

1.1 Product Identifier Trade name: PRIORI Gold Design code: A18253A Product Registration number: MAPP 19119

1.2 Relevant Identified Uses of the substance or mixture and uses advised against

Use of the Substance/Mixture: Fungicide

1.3 Details of the supplier of the safety data sheet

Company:	Syngenta UK Ltd
	CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE
Telephone:	+44 (0) 1223 883400
Telefax:	+44 (0) 1223 882195
E-mail address:	customer.services@syngenta.com

SECTION 2. HAZARDS IDENTIFICATION 2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 Acute toxicity, Category 4 Short-term (acute) aquatic hazard, Category 1 H400: Very toxic to aquatic life. Long-term (chronic) aquatic hazard, Category 1 H410: Very toxic to aquatic life with long lasting effects.

H302: Harmful if swallowed

H332: Harmful if inhaled.

2.2 Label elements Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms		
Signal Word	Warning	
Hazard Statements	H302+H332 H410	Harmful if swallowed or if inhaled. Very toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	EUH401 EUH208	To avoid risks to human health and the environment, comply with the instructions for use. Contains 1,2-benzisothiazol-3-one. May produce an allergic reaction.
Precautionary Statements	P101 P102 P261 P264 P270 P304+P340 +P312 P308+P313 P391 P501	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. IF exposed or concerned: Get medical advice/ attention. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- azoxystrobin (ISO)
- · C16-18 alcohols, ethoxylated

2.3 Other hazards

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.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS 3.2 Mixtures Components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
azoxystrobin (ISO)	131860-33-8 607-256-00-8	Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 10 - < 20
difenoconazole	119446-68-3	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 10 - < 20
C16-18 alcohols, ethoxylated	68439-49-6 500-212-8	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 10 - < 20
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1	>= 0.025 - < 0.05

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 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: Nonspecific. No symptoms known or expected.

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: <u>Extinguishing media - small fires</u> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. <u>Extinguishing media - large fires</u> 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 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.

5.3 Advice for firefighters

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.

6.2 Environmental precautions

Environmental precautions: Prevent further leakage or spillage if safe to do so. 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 material for containment and cleaning up

Methods for cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, verniculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

6.4 Reference to other sections

For disposal considerations see 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.

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
Further information	their systematic These may some pesticide formula	a as active ingredients in chemical names and/or times be used as parts ations. In all cases, the or gredient in the workplace whole.	their (ISO) common of the names of exposure limit ap	non names. proprietary plies to the
azoxystrobin (ISO)	131860-33-8	TWA	4 mg/m ³	Syngenta
difenoconazole	119446-68-3	TWA	5 mg/m ³	Syngenta

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. Maintain air concentrations below occupational exposure standards. 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: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Suitable respiratory equipment: Respirator with a particle filter (EN 143)

The filter class for the respirator must be suitable for the maximum expected contaminant

concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Filter type: Particulates type (P)

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	fluid
Colour:	yellowish
Odour:	No data available
Odour Threshold:	No data available
pH:	> 6.00 - 8.00
Melting point/range:	No data available
Boiling point/boiling range:	No data available

Flash point:	Method: Pensky-Martens closed cup does not flash
Evaporation rate:	No data available
Flammability (solid, gas): Upper explosion limit /	No data available
Upper flammability limit: Lower explosion limit /	No data available
Lower flammability limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	1.094 g/cm3
Solubility(ies)	
Solubility in other solvents: Partition coefficient:	No data available
n-octanol/water:	No data available
Auto-ignition temperature:	460 °C
Decomposition temperature:	No data available
Viscosity	
Viscosity, dynamic:	No data available
Explosive properties:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.
3	5

9.2 Other information

No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid: No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid: None known.

10.6 Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure: Ingestion, Inhalation, Skin contact, Eye contact Acute toxicity

Product:

Acute oral toxicity:	LD50 (Rat, female): 1,049 mg/kg
Acute inhalation toxicity:	LC50 (Rat): 1.01 - 2.58 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
<u>Components:</u> azoxystrobin (ISO):	
	DEC (Det male and female): . E 000 mm//m
Acute oral toxicity:	LD50 (Rat, male and female): > 5,000 mg/kg
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
difenoconazole:	······
Acute oral toxicity:	LD50 (Rat, male and female): 1,453 mg/kg
	Assessment: The component/mixture is moderately toxic after single
	ingestion.
Acute inhalation toxicity:	LC50 (Rat, male and female): > 3,300 mg/m3
Acute initialation toxicity.	Exposure time: 4 h
	•
	Test atmosphere: dust/mist
	Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity:	LD50 (Rabbit, male and female): > 2,010 mg/kg
	Assessment: The substance or mixture has no acute dermal toxicity
C16-18 alcohols, ethoxy	lated:

C16-18 alcohols, ethoxylate

Acute oral toxicity: Assessment: The component/mixture is moderately toxic after single ingestion.

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity: LD50 (Rat): 1,020 mg/kg

Skin corrosion/irritation

Product: Species: Rabbit . Result: No skin irritation Components: azoxystrobin (ISO): Species: Rabbit Result: No skin irritation difenoconazole:

Species: Rabbit Result: No skin irritation 1,2-benzisothiazol-3(2H)-one:

Result: Irritating to skin.

Serious eye damage/eye irritation Product: Species: Rabbit Result: No eye irritation Components: azoxystrobin (ISO): Species: Rabbit Result: No eye irritation

difenoconazole:

Species: Rabbit Result: Irritation to eyes, reversing within 7 days C16-18 alcohols, ethoxylated: Result: Irreversible effects on the eye 1,2-benzisothiazo1-3(2H)-one: Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Species: Guinea pig Result: Did not cause sensitisation on laboratory animals.

Components:

azoxystrobin (ISO):

Species: Guinea pig Result: Did not cause sensitisation on laboratory animals.

difenoconazole:

Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. 1.2-benzisothiazol-3(2H)-one:

Result: Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Components:

azoxystrobin (ISO):

Germ cell mutagenicity- Assessment: Animal testing did not show any mutagenic effects.

difenoconazole:

Germ cell mutagenicity- Assessment: Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

azoxystrobin (ISO):

Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.

difenoconazole:

Carcinogenicity - Assessment: Weight of evidence does not support classification as a carcinogen, In a two-year feeding study of mice, an oncogenic effect was seen in the livers of males and females., The observed tumors do not appear to be relevant for men.

Reproductive toxicity

Components: azoxystrobin (ISO): Reproductive toxicity - Assessment: No toxicity to reproduction difenoconazole: Reproductive toxicity - Assessment: No toxicity to reproduction

Repeated dose toxicity

Components:

azoxystrobin (ISO):

Remarks: No adverse effect has been observed in chronic toxicity tests.

difenoconazole:

Remarks: No adverse effect has been observed in chronic toxicity tests.

SECTION 12. ECOLOGICAL INFORMATION 12.1 Toxicity Product:

Product:	
Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 1.5 mg/l Exposure time: 96 h
Toxicity to daphnia and	
other aquatic invertebrates:	EC50 (<i>Daphnia magna</i> (Water flea)): 1.8 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants:	EC50 (<i>Pseudokirchneriella subcapitata</i> (green algae)): 3.8 mg/l Exposure time: 96 h
Ecotoxicology Assessment	
Acute aquatic toxicity:	Very toxic to aquatic life. Classification of the product is based on the summation of the
Chronic aquatic toxicity:	concentrations of classified components. Very toxic to aquatic life with long lasting effects. Classification of the product is based on the summation of the concentrations of classified components.
Components:	·
azoxystrobin (ISO):	
Toxicity to fish:	LC50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): 0.47 mg/l Exposure time: 96 h
Toxicity to daphnia and	
other aquatic invertebrates:	EC50 (<i>Americamysis</i>): 0.055 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants:	ErC50 (<i>Pseudokirchneriella subcapitata</i> (green algae)): 2 mg/l Exposure time: 96 h
	NOEC (Pseudokirchneriella subcapitata (green algae)): 0.038 mg/l End point: Growth rate
	Exposure time: 96 h
	ErC50 (<i>Navicula pelliculosa</i> (Freshwater diatom)): 0.301 mg/l Exposure time: 96 h
M Easter (Asute aquetic toxicity):	
M-Factor (Acute aquatic toxicity):	
Toxicity to microorganisms:	IC50 (<i>Pseudomonas putida</i>): > 3.2 mg/l Exposure time: 6 h
Toxicity to fish (Chronic toxicity):	NOEC: 0.16 mg/l
toxicity to fish (Chronic toxicity).	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	opecies. I intephales prometas (latricad minitow)
other aquatic invertebrates	
(Chronic toxicity):	NOEC: 0.044 mg/l
(ormorno toxioity):	Exposure time: 21 d
	Species: Daphnia magna (Water flea)
	NOEC: 0.0095 mg/l
	Exposure time: 28 d
	Species: Americamysis
M-Factor	
(Chronic aquatic toxicity):	10
difenoconazole:	

Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates:	CS0 (Americanysis): 0.15 mg/l
Toxicity to algae/aquatic plants:	Exposure time: 96 h EC50 (<i>Navicula pelliculosa</i> (Freshwater diatom)): 0.091 mg/l Exposure time: 72 h
	NOEC (<i>Navicula pelliculosa</i> (Freshwater diatom)): 0.053 mg/l Exposure time: 72 h
	NOEC (Desmodesmus subspicatus (green algae)): 0.0086 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity):	10
Toxicity to microorganisms:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity):	NOEC: 0.0076 mg/l Exposure time: 34 d
	Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates	
(Chronic toxicity):	NOEC: 0.0056 mg/l
	Exposure time: 21 d
	Species: Daphnia magna (Water flea)
	NOEC: 0.0046 mg/l Exposure time: 28 d
	Species: Americamysis
M-Factor	Species. Americanysis
(Chronic aquatic toxicity):	10
1,2-benzisothiazol-3(2H)-one:	
Toxicity to fish :	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.18 mg/l
,	Exposure time: 96 h
Toxicity to daphnia and other	
aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): 2.94 mg/l
	Exposure time: 48 h
Toxicity to algae/aquatic plants:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.15 mg/l $Exposure time:$ 72 h
M-Factor	
(Acute aquatic toxicity):	1
Toxicity to fish (Chronic toxicity):	NOEC: 0.3 mg/l
	Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and	Species. Oncomynetius mykiss (rainbow trout)
other aquatic invertebrates	
(Chronic toxicity):	NOEC: 1.7 mg/l
	Exposure time: 21 d
	Species: Daphnia (water flea)
12.2 Persistence and degradab	ility,
Components:	iity
azoxystrobin (ISO):	

azoxystrobin (ISO): Biodegradability: Result: Not readily biodegradable. Stability in water: Degradation half life: 214 d Remarks: The substance is stable in water.

difenoconazole:

Biodegradability: Result: Not readily biodegradable. Stability in water: Degradation half life: 1 d Remarks: Product is not persistent.

1,2-benzisothiazol-3(2H)-one:

Biodegradability : Result: rapidly degradable

12.3 Bioaccumulative potential

Components:

azoxystrobin (ISO):

Bioaccumulation: Remarks: Does not bioaccumulate.

difenoconazole:

Bioaccumulation: Remarks: High bioaccumulation potential.

Partition coefficient: n-octanol/water: log Pow: 4.4 (25 °C)

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil

Components:

azoxystrobin (ISO):

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

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

Remarks: Product is not persistent.

difenoconazole:

Distribution among environmental compartments: Remarks: Low mobility in soil. Stability in soil: Dissipation time: 149 - 187 d Percentage dissipation: 50 % (DT50)

Remarks: Product is not persistent.

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 (ISO):

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).

difenoconazole:

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

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

Waste Code: uncleaned packagings

150110, packaging containing residues of or contaminated by dangerous substances

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

- ADN: UN 3082
- ADR: UN 3082
- RID: UN 3082
- IMDG: UN 3082
- IATA: UN 3082

14.2 UN proper shipping name

- ADN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN AND DIFENOCONAZOLE)
- ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN AND DIFENOCONAZOLE)
- RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN AND DIFENOCONAZOLE)
- IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN AND DIFENOCONAZOLE)
- IATA: Environmentally hazardous substance, liquid, n.o.s. (AZOXYSTROBIN AND DIFENOCONAZOLE)

14.3 Transport hazard class(es)

- ADN: 9
- ADR: 9
- RID: 9
- IMDG: 9
- IATA: 9

14.4 Packing group

ADN

Packing group: III Classification Code: M6 Hazard Identification Number: 90 Labels: 9

ADR

Packing group: III Classification Code: M6 Hazard Identification Number: 90 Labels: 9 Tunnel restriction code: (-)

RID

Packing group: III Classification Code: M6 Hazard Identification Number: 90 Labels: 9 IMDG Packing group: III Labels: 9 EmS Code: F-A. S-F IATA (Cargo) Packing instruction (cargo aircraft): 964 Packing instruction (LQ): Y964 Packing group: III Labels: Miscellaneous IATA (Passenger) Packing instruction (passenger aircraft): 964 Packing instruction (LQ): Y964 Packing group: III Labels: Miscellaneous

14.5 Environmental hazards

ADN

Environmentally hazardous: yes ADR Environmentally hazardous: yes RID Environmentally hazardous: yes IMDG Marine pollutant: yes IATA (Passenger) Environmentally hazardous: yes IATA (Cargo) Environmentally hazardous: yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).: Not applicable Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1 ENVIRONMENTAL HAZARDS Quantity 1 Quantity 2 100 t 200 t

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.

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

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

Full text of H-Statements

- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- 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.
- H412: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute toxicity
Acute aquatic toxicity
Chronic aquatic toxicity
Serious eye damage
Eye irritation
Skin irritation
Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory: LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL -International Convention for the Prevention of Pollution from Ships: n.o.s. - Not Otherwise Specified: NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate: NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail: SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory: TSCA - Toxic Substances Control Act (United States): UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Verv Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		Classification procedure:
Acute Tox. 4	H302	On basis of test data.
Acute Tox. 4	H332	On basis of test data.
Aquatic Acute 1	H400	On basis of test data.
Aquatic Chronic 1	H410	On basis of test data.

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