

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2      Revision Date: 07.10.2021      SDS Number: S00057513510      This version replaces all previous versions.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : ANGLE  
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 Limited  
CPC4, Capital Park  
Fulbourn, Cambridge CB21 5XE  
United Kingdom  
  
Telephone : +44 (0) 1223 883400  
  
Telefax : +44 (0) 1223 882195  
  
E-mail address of person responsible for the SDS : customer.services@syngenta.com

#### 1.4 Emergency telephone number

Emergency telephone number : +44 1484 538444

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
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.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version	Revision Date:	SDS Number:	This version replaces all previous versions.
1.2	07.10.2021	S00057513510	

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

#### Prevention:

P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

#### Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P391 Collect spillage.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

C16-18 alcohols, ethoxylated  
azoxystrobin (ISO)  
difenoconazole

#### Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one.  
May produce an allergic reaction.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version  
1.2

Revision Date:  
07.10.2021

SDS Number:  
S00057513510

This version replaces all previous versions.

### 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)
C16-18 alcohols, ethoxylated	68439-49-6 500-212-8	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 20 - < 30
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): 1010 M-Factor (Chronic aquatic toxicity): 1010	>= 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
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 2; H411  M-Factor (Acute aquatic toxicity): 1	>= 0.025 - < 0.05

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2	Revision Date: 07.10.2021	SDS Number: S00057513510	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

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.<br>If breathing is irregular or stopped, administer artificial respiration.<br>Keep patient warm and at rest.<br>Call a physician or poison control centre immediately. |
| In case of skin contact | : | Take off all contaminated clothing immediately.<br>Wash off immediately with plenty of water.<br>If skin irritation persists, call a physician.<br>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.<br>Remove contact lenses.<br>Immediate medical attention is required.  |
| If swallowed            | : | If swallowed, seek medical advice immediately and show this container or label.<br>Do NOT induce vomiting.  |

#### 4.2 Most important symptoms and effects, both acute and delayed

- |          |   |   |
|----------|---|---|
| Symptoms | : | Nonspecific<br>No symptoms known or expected. |
|----------|---|---|

#### 4.3 Indication of any immediate medical attention and special treatment needed

- |           |   |  |
|-----------|---|--|
| Treatment | : | There is no specific antidote available.<br>Treat symptomatically. |
|-----------|---|--|

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- |                              |   |  |
|------------------------------|---|--|
| Suitable extinguishing media | : | Extinguishing media - small fires<br>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.<br>Extinguishing media - large fires<br>Alcohol-resistant foam |
|------------------------------|---|--|

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2	Revision Date: 07.10.2021	SDS Number: S00057513510	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

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 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, vermiculite) 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.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2      Revision Date: 07.10.2021      SDS Number: S00057513510      This version replaces all previous versions.

### 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
azoxystrobin (ISO)	131860-33-8	TWA	4 mg/m <sup>3</sup>	Syngenta
difenoconazole	119446-68-3	TWA	5 mg/m <sup>3</sup>	Syngenta

##### Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
1,2-benzisothiazol-3(2H)-one	Workers	Inhalation	Long-term systemic effects	6.81 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0.966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.2 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	0.345 mg/kg

##### Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
1,2-benzisothiazol-3(2H)-one	Fresh water	0.00403 mg/l
	Marine water	0.000403 mg/l
	Sewage treatment plant	1.03 mg/l

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2      Revision Date: 07.10.2021      SDS Number: S00057513510      This version replaces all previous versions.

	Fresh water sediment	0.0499 mg/kg
	Marine sediment	0.00499 mg/kg
	Freshwater - intermittent	0.0011 mg/l
	Marine water - intermittent	0.000110 mg/l
	Soil	3 mg/kg

### 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 half face mask  
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.  
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

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2	Revision Date: 07.10.2021	SDS Number: S00057513510	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

Odour Threshold	:	No data available
pH	:	7.4 Concentration: 100 % w/v
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)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	1.094 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	460 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Particle size	:	No data available
---------------	---	-------------------



# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2	Revision Date: 07.10.2021	SDS Number: S00057513510	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

---

### 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, male and female): 1.01 - 2.58 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

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

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2	Revision Date: 07.10.2021	SDS Number: S00057513510	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

### Components:

#### **C16-18 alcohols, ethoxylated:**

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

#### **azoxystrobin (ISO):**

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  
  
Acute toxicity estimate: 0.7 mg/l  
Test atmosphere: dust/mist  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

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  
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

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

Acute oral toxicity : LD50 (Rat, male): 670 mg/kg

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

### **Skin corrosion/irritation**

#### Product:

Species : Rabbit

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2      Revision Date: 07.10.2021      SDS Number: S00057513510      This version replaces all previous versions.

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:**

Species : Rabbit  
Result : Mild skin irritation

### **Serious eye damage/eye irritation**

#### Product:

Species : Rabbit  
Result : No eye irritation

### Components:

#### **C16-18 alcohols, ethoxylated:**

Result : Irreversible effects on the eye

#### **azoxystrobin (ISO):**

Species : Rabbit  
Result : No eye irritation

#### **difenoconazole:**

Species : Rabbit  
Result : Irritation to eyes, reversing within 7 days

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

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.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2	Revision Date: 07.10.2021	SDS Number: S00057513510	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

### 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.
---------------------------------------	---	--

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

Germ cell mutagenicity- Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
---------------------------------------	---	--

### **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
---------------------------------	---	--

### **Reproductive toxicity**

#### Components:

#### **azoxystrobin (ISO):**

Reproductive toxicity -	:	No toxicity to reproduction
-------------------------	---	-----------------------------

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2      Revision Date: 07.10.2021      SDS Number: S00057513510      This version replaces all previous versions.

Assessment

**difenoconazole:**

Reproductive toxicity - Assessment : No toxicity to reproduction

**STOT - repeated exposure**

**Components:**

**azoxystrobin (ISO):**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity**

**Components:**

**difenoconazole:**

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)): 1.5 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.8 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 3.8 mg/l  
Exposure time: 96 h

EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.61 mg/l  
End point: Growth rate  
Exposure time: 96 h

**Components:**

**azoxystrobin (ISO):**

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

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2      Revision Date: 07.10.2021      SDS Number: S00057513510      This version replaces all previous versions.

		EC50 (Americamysis): 0.055 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 2 mg/l Exposure time: 96 h  NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.038 mg/l End point: Growth rate Exposure time: 96 h  ErC50 (Navicula pelliculosa (Freshwater diatom)): 0.301 mg/l Exposure time: 96 h  NOEC (Navicula pelliculosa (Freshwater diatom)): 0.02 mg/l End point: Growth rate Exposure time: 96 h
M-Factor (Acute aquatic toxicity)	:	10  10
Toxicity to microorganisms	:	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
M-Factor (Chronic aquatic toxicity)	:	10  10
<b>difenoconazole:</b>		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l Exposure time: 96 h

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2      Revision Date: 07.10.2021      SDS Number: S00057513510      This version replaces all previous versions.

- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.77 mg/l  
Exposure time: 48 h
- EC50 (*Americamysis*): 0.15 mg/l  
Exposure time: 96 h
- Toxicity to algae/aquatic plants : EC50 (*Navicula pelliculosa* (Freshwater diatom)): 0.091 mg/l  
Exposure time: 72 h
- NOEC (*Navicula pelliculosa* (Freshwater diatom)): 0.053 mg/l  
Exposure time: 72 h
- ErC50 (*Desmodesmus subspicatus* (green algae)): 0.0876 mg/l  
Exposure time: 72 h
- EC10 (*Desmodesmus subspicatus* (green algae)): 0.015 mg/l  
End point: Growth rate  
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: 0.0023 mg/l  
Exposure time: 28 d  
Species: *Americamysis*
- M-Factor (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

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2      Revision Date: 07.10.2021      SDS Number: S00057513510      This version replaces all previous versions.

Exposure time: 72 h

EC10 (Raphidocelis subcapitata (freshwater green alga)):  
0.04 mg/l  
End point: Growth rate  
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 other aquatic invertebrates (Chronic toxicity) : NOEC: 1.7 mg/l  
Exposure time: 21 d  
Species: Daphnia (water flea)

### 12.2 Persistence and degradability

#### Components:

##### **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- : log Pow: 4.4 (25 °C)



# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2      Revision Date: 07.10.2021      SDS Number: S00057513510      This version replaces all previous versions.

octanol/water

### **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).

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

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

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2	Revision Date: 07.10.2021	SDS Number: S00057513510	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

(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.

---

## SECTION 14: Transport information

### 14.1 UN number

ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

### 14.2 UN proper shipping name

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)

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version	Revision Date:	SDS Number:	This version replaces all previous versions.
1.2	07.10.2021	S00057513510	

### 14.3 Transport hazard class(es)

<b>ADR</b>	:	9
<b>RID</b>	:	9
<b>IMDG</b>	:	9
<b>IATA</b>	:	9

### 14.4 Packing group

<b>ADR</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
Tunnel restriction code	: (-)
<b>RID</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
<b>IMDG</b>	
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

<b>ADR</b>	
Environmentally hazardous	: yes
<b>RID</b>	
Environmentally hazardous	: yes
<b>IMDG</b>	
Marine pollutant	: yes
<b>IATA (Passenger)</b>	
Environmentally hazardous	: yes

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version 1.2	Revision Date: 07.10.2021	SDS Number: S00057513510	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

### 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 regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: methanol (Number on list 69)
--	---

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 (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
---	------------------

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
--	------------------

UK REACH List of substances subject to authorisation (Annex XIV)	: 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.

Not applicable

### 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.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version	Revision Date:	SDS Number:	This version replaces all previous versions.
1.2	07.10.2021	S00057513510	

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.
H411	: Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Irrit.	: Skin irritation
Skin Sens.	: 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; AIIC - Australian Inventory of Industrial Chemicals; 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; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## ANGLE

Version  
1.2

Revision Date:  
07.10.2021

SDS Number:  
S00057513510

This version replaces all previous versions.

### Further information

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.

GB / EN