

# SAFETY DATA SHEET

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



## STOROSO

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 21.10.2024  |
| 7.0     | 12.11.2024     | S00050701840 | Date of first issue: 07.12.2021 |

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

#### 1.1 Product identifier

Trade name : STOROSO

Design code : A12705B

Product Registration Number : MAPP 19742

Unique Formula Identifier (UFI) : DPD4-30HG-F00P-5QJA

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

Use of the Sub-stance/Mixture : Fungicide

Recommended restrictions on use : professional use

#### 1.3 Details of the supplier of the safety data sheet

Company : Syngenta UK Limited  
Jealott's Hill International Research Centre  
Bracknell, Berkshire RG42 6EY  
United Kingdom

Telephone : +44 (0) 1223 883400

Telefax : -

E-mail address of person responsible for the SDS : MSDSenquiries.UK@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                     | 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. |

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### 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        | : | H332 Harmful if inhaled.<br>H410 Very toxic to aquatic life with long lasting effects.  |
| Precautionary statements | : | <b>Prevention:</b><br>P261 Avoid breathing mist or vapours.<br>P271 Use only outdoors or in a well-ventilated area.<br><b>Response:</b><br>P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.<br>P391 Collect spillage.<br><b>Disposal:</b><br>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. |

Hazardous components which must be listed on the label:

azoxystrobin (ISO)  
methanol

#### Additional Labelling

|        |   |
|--------|---|
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.                  |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |

### 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

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| Chemical name  | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification  | Concentration<br>(% w/w) |
|--|---|---|--------------------------|
| azoxystrobin (ISO)   | 131860-33-8<br>607-256-00-8                           | Acute Tox. 3; H331<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 10<br>M-Factor (Chronic<br>aquatic toxicity): 10  | >= 20 - < 25             |
| alcohols, C16-18, ethoxylated  | 68439-49-6<br>500-212-8                               | Eye Irrit. 2; H319  | >= 10 - < 20             |
| Residues (petroleum), catalytic re-<br>former fractionator, sulfonated, poly-<br>mers with formaldehyde, sodium<br>salts | 68425-94-5  | Eye Irrit. 2; H319  | >= 1 - < 10              |
| methanol   | 67-56-1<br>200-659-6<br>603-001-00-X                  | Flam. Liq. 2; H225<br>Acute Tox. 3; H301<br>Acute Tox. 3; H331<br>Acute Tox. 3; H311<br>STOT SE 1; H370<br>(Eyes, Central<br>nervous system)<br><br>specific concentra-<br>tion limit<br>STOT SE 1; H370<br>>= 10 %<br>STOT SE 2; H371<br>>= 3 - < 10 %   | >= 0.1 - < 1             |
| 1,2-benzisothiazol-3(2H)-one   | 2634-33-5<br>220-120-9<br>613-088-00-6                | Acute Tox. 4; H302<br>Acute Tox. 2; H330<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 1<br>M-Factor (Chronic<br>aquatic toxicity): 1<br><br>specific concentra-<br>tion limit<br>Skin Sens. 1; H317<br>>= 0.05 % | >= 0.025 - <<br>0.05     |

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| Substances with a workplace exposure limit : |           |  |              |
|--|-----------|--|--------------|
| propane-1,2-diol                             | 57-55-6   |  | >= 10 - < 20 |
|  | 200-338-0 |  |              |

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.
- Risks : Harmful if inhaled.

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

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

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or car-

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bon dioxide.  
Extinguishing media - large fires  
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.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides

### 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.

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### 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      |
|--------------------|--|----------------------------------|----------------------------------|------------|
| azoxystrobin (ISO) | 131860-33-8  | TWA                              | 0.7 mg/m <sup>3</sup>            | Syngenta   |
| propane-1,2-diol   | 57-55-6  | TWA (particles)                  | 10 mg/m <sup>3</sup>             | GB EH40    |
|                    |  | TWA (Total vapour and particles) | 150 ppm<br>474 mg/m <sup>3</sup> | GB EH40    |
| methanol           | 67-56-1  | TWA                              | 200 ppm<br>266 mg/m <sup>3</sup> | GB EH40    |
|                    | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                  |                                  |            |
|                    |  | STEL                             | 250 ppm<br>333 mg/m <sup>3</sup> | GB EH40    |
|                    | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                                  |                                  |            |
|                    |  | TWA                              | 200 ppm<br>260 mg/m <sup>3</sup> | 2006/15/EC |
|                    | Further information: Indicative, Identifies the possibility of significant uptake through the skin   |                                  |                                  |            |

#### Derived No Effect Level (DNEL)

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| Substance name               | End Use   | Exposure routes            | Potential health effects   | Value                      |                       |
|------------------------------|-----------|----------------------------|----------------------------|----------------------------|-----------------------|
| propane-1,2-diol             | Workers   | Inhalation                 | Long-term systemic effects | 168 mg/m <sup>3</sup>      |                       |
|                              | Consumers | Inhalation                 | Long-term local effects    | 10 mg/m <sup>3</sup>       |                       |
|                              | Consumers | Inhalation                 | Long-term systemic effects | 30 mg/m <sup>3</sup>       |                       |
| 1,2-benzisothiazol-3(2H)-one | Workers   | Inhalation                 | Long-term local effects    | 10 mg/m <sup>3</sup>       |                       |
|                              | 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                |                       |
|                              | methanol  | Workers                    | Inhalation                 | Long-term systemic effects | 130 mg/m <sup>3</sup> |
|                              |           | Workers                    | Inhalation                 | Acute systemic effects     | 130 mg/m <sup>3</sup> |
| Workers                      |           | Inhalation                 | Long-term local effects    | 130 mg/m <sup>3</sup>      |                       |
| Workers                      |           | Inhalation                 | Acute local effects        | 130 mg/m <sup>3</sup>      |                       |
| Workers                      |           | Dermal                     | Long-term systemic effects | 20 mg/m <sup>3</sup>       |                       |
| Workers                      |           | Dermal                     | Acute systemic effects     | 20 mg/m <sup>3</sup>       |                       |
| Consumers                    |           | Inhalation                 | Long-term systemic effects | 26 mg/m <sup>3</sup>       |                       |
| Consumers                    |           | Inhalation                 | Acute systemic effects     | 26 mg/m <sup>3</sup>       |                       |
| Consumers                    |           | Inhalation                 | Long-term local effects    | 26 mg/m <sup>3</sup>       |                       |
| Consumers                    |           | Inhalation                 | Acute local effects        | 26 mg/m <sup>3</sup>       |                       |
| Consumers                    |           | Dermal                     | Long-term systemic effects | 4 mg/kg                    |                       |
| Consumers                    |           | Dermal                     | Acute systemic effects     | 4 mg/kg                    |                       |
| Consumers                    | Oral      | Long-term systemic effects | 4 mg/kg                    |                            |                       |
| Consumers                    | Oral      | Acute systemic effects     | 4 mg/kg                    |                            |                       |

### Predicted No Effect Concentration (PNEC)

| Substance name   | Environmental Compartment | Value      |
|------------------|---------------------------|------------|
| propane-1,2-diol | Fresh water               | 260 mg/l   |
|                  | Marine water              | 26 mg/l    |
|                  | Intermittent use/release  | 183 mg/l   |
|                  | Sewage treatment plant    | 20000 mg/l |
|                  | Marine sediment           | 57.2 mg/kg |
|                  | Fresh water sediment      | 572 mg/kg  |

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|                              |                             |                             |
|------------------------------|-----------------------------|-----------------------------|
|                              | Soil                        | 50 mg/kg                    |
| 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                   |
|                              | 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                     |
|                              | methanol                    | Fresh water                 |
| Marine water                 |                             | 2.08 mg/l                   |
| Soil                         |                             | 100 mg/kg wet weight        |
| Sewage treatment plant       |                             | 100 mg/l                    |
| Marine sediment              |                             | 7.7 mg/kg dry weight (d.w.) |

### 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/face protection : No special protective equipment required.

Hand protection

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : 0.5 mm

Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.  
Remove and wash contaminated clothing before re-use.  
Wear as appropriate:

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Respiratory protection : Impervious clothing  
: 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 : liquid  
Colour : off-white to yellow-orange  
Odour : odourless  
Odour Threshold : No data available

pH : 6 - 8  
Concentration: 1 %w/v

Melting point/freezing point : No data available

Initial boiling point and 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 : 1.1 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : No data available  
Solubility in other solvents : No data available

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Partition coefficient: n-octanol/water : No data available  
Auto-ignition temperature : 475 °C  
Decomposition temperature : No data available  
Viscosity  
Viscosity, dynamic : 76.0 - 427 mPa.s (40 °C)  
117 - 541 mPa.s (20 °C)  
Viscosity, kinematic : No data available  
Explosive properties : Not explosive  
Oxidizing properties : The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Surface tension : 32.0 mN/m, 6.000 %, 20 °C  
Particle size : No data available

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## 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

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Ingestion  
Inhalation

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Skin contact  
Eye contact

### Acute toxicity

Harmful if inhaled.

### Product:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on data from similar materials

Acute inhalation toxicity : Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

Acute toxicity estimate: 3.06 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### Components:

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

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 0.698 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

#### **Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

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

#### **methanol:**

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

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.

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Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

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

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

Acute inhalation toxicity : LC50: 0.5 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

### **propane-1,2-diol:**

Acute oral toxicity : LD50 (Rat): > 20,000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rabbit): 317,042 mg/l  
Exposure time: 2 h  
Test atmosphere: dust/mist

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

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

#### **Product:**

Species : Rabbit  
Result : No skin irritation  
Remarks : Based on data from similar materials

#### **Components:**

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

Species : Rabbit  
Result : No skin irritation

##### **Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Species : reconstructed human epidermis (RhE)  
Result : No skin irritation

##### **methanol:**

Species : Rabbit

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Result : No skin irritation

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

Species : Rabbit  
Result : Irritating to skin.

### **propane-1,2-diol:**

Result : No skin irritation

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

Based on available data, the classification criteria are not met.

### **Product:**

Species : Rabbit  
Result : No eye irritation  
Remarks : Based on data from similar materials

### **Components:**

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

Species : Rabbit  
Result : No eye irritation

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

Result : Eye irritation

#### **Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

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

#### **methanol:**

Species : Rabbit  
Result : No eye irritation

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

Species : Rabbit  
Result : Risk of serious damage to eyes.

#### **propane-1,2-diol:**

Result : No eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Based on available data, the classification criteria are not met.

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### Respiratory sensitisation

Not classified due to lack of data.

#### Product:

Species : Guinea pig  
Result : Does not cause skin sensitisation.  
Remarks : Based on data from similar materials

#### Components:

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

Species : Guinea pig  
Result : Does not cause skin sensitisation.

##### **methanol:**

Species : Guinea pig  
Result : Does not cause skin sensitisation.

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

Result : Probability or evidence of high skin sensitisation rate in humans

##### **propane-1,2-diol:**

Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

Not classified due to lack of data.

#### Components:

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

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

##### **methanol:**

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.

##### **propane-1,2-diol:**

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

### Carcinogenicity

Not classified due to lack of data.

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### Components:

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

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

#### **methanol:**

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

#### **propane-1,2-diol:**

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

### **Reproductive toxicity**

Not classified due to lack of data.

### Components:

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

Reproductive toxicity - Assessment : No toxicity to reproduction, No effects on or via lactation

#### **methanol:**

Reproductive toxicity - Assessment : No toxicity to reproduction

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

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### **propane-1,2-diol:**

Reproductive toxicity - Assessment : No toxicity to reproduction, No effects on or via lactation  
Animal testing did not show any effects on foetal development.

### **STOT - single exposure**

Not classified due to lack of data.

### Components:

#### **methanol:**

Target Organs : Eyes, Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

#### **propane-1,2-diol:**

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

### **STOT - repeated exposure**

Not classified due to lack of data.

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### Components:

#### **methanol:**

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

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

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

#### **propane-1,2-diol:**

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

#### **Aspiration toxicity**

Not classified due to lack of data.

### Components:

#### **propane-1,2-diol:**

No aspiration toxicity classification

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.2 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.83 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 2.2 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.13 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Remarks: Based on data from similar materials

### Components:

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.47 mg/l

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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): 0.055 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)):  
1.109 mg/l  
Exposure time: 72 h

EC10 (Raphidocelis subcapitata (freshwater green alga)):  
0.0303 mg/l  
End point: Growth rate  
Exposure time: 72 h

ErC50 (Skeletonema costatum (marine diatom)): 0.250 mg/l  
Exposure time: 72 h

NOEC (Skeletonema costatum (marine diatom)): 0.010 mg/l  
End point: Growth rate  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 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)

EC10: 0.2197 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: 0.00954 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 : EC50 (Daphnia magna (Water flea)): 2.94 mg/l

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aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)):  
0.15 mg/l  
Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):  
0.055 mg/l  
End point: Growth rate  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0.21 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)

M-Factor (Chronic aquatic toxicity) : 1

**propane-1,2-diol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : (Ceriodaphnia dubia (water flea)): 18,340 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)):  
19,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 13,020 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (Water flea)  
Test Type: semi-static test

### 12.2 Persistence and degradability

#### Components:

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

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 224 d  
Remarks: Persistent in water.

##### **Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Biodegradability : Result: Not readily biodegradable.

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

Biodegradability : Result: Not readily biodegradable.

### propane-1,2-diol:

Biodegradability : Result: Readily biodegradable.

## 12.3 Bioaccumulative potential

### Components:

#### azoxystrobin (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

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

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

## 12.4 Mobility in soil

### Components:

#### azoxystrobin (ISO):

Distribution among environmental compartments : Remarks: Low mobility in soil.

Stability in soil : Dissipation time: 81.3 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 : Substance is not persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

#### methanol:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

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

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

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lative (vPvB).

### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

## 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)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(AZOXYSTROBIN)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(AZOXYSTROBIN)

IATA : Environmentally hazardous substance, liquid, n.o.s.  
(AZOXYSTROBIN)

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### 14.3 Transport hazard class(es)

|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADR</b>  | : 9   |                  |
| <b>RID</b>  | : 9   |                  |
| <b>IMDG</b> | : 9   |                  |
| <b>IATA</b> | : 9   |                  |

### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)  
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

**RID**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous  
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964

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Packing group : III  
Labels : Miscellaneous  
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

### 14.5 Environmental hazards

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

Relevant EU provisions transposed through retained EU law

|   |    |   |
|---|----|---|
| UK REACH List of restrictions (Annex 17)  | :  | Conditions of restriction for the following entries should be considered:<br>Number on list 3 |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation                             | :  | Not applicable  |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | :  | Not applicable  |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer   | :  | Not applicable  |
| UK REACH List of substances subject to authorisation (Annex XIV)  | :  | Not applicable  |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation                           | :  | Not applicable  |
| Control of Major Accident Hazards Regulations 2015 (COMAH)  | E1 | ENVIRONMENTAL HAZARDS   |

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

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emissions (integrated pollution prevention and control)  
Not applicable

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people 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

### Full text of H-Statements

|      |   |
|------|---|
| H225 | : Highly flammable liquid and vapour.                   |
| H301 | : Toxic if swallowed.                                   |
| H302 | : Harmful if swallowed.                                 |
| H311 | : Toxic in contact with skin.                           |
| H315 | : Causes skin irritation.                               |
| H317 | : May cause an allergic skin reaction.                  |
| H318 | : Causes serious eye damage.                            |
| H319 | : Causes serious eye irritation.                        |
| H330 | : Fatal if inhaled.                                     |
| H331 | : Toxic if inhaled.                                     |
| H370 | : Causes damage to organs.                              |
| H400 | : Very toxic to aquatic life.                           |
| H410 | : Very 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   |
| Flam. Liq.       | : Flammable liquids                                      |
| Skin Irrit.      | : Skin irritation  |
| Skin Sens.       | : Skin sensitisation                                     |
| STOT SE          | : Specific target organ toxicity - single exposure       |
| 2006/15/EC       | : Europe. Indicative occupational exposure limit values  |
| GB EH40          | : UK. EH40 WEL - Workplace Exposure Limits               |
| Syngenta         | : Syngenta Occupational Exposure Limit                   |
| 2006/15/EC / TWA | : Limit Value - eight hours                              |
| GB EH40 / TWA    | : Long-term exposure limit (8-hour TWA reference period) |
| GB EH40 / STEL   | : Short-term exposure limit (15-minute reference period) |
| Syngenta / TWA   | : Time weighted average                                  |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-

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tion (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

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Acute Tox. 4      | H332 |
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 1 | H410 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Calculation method                  |
| Based on product data or assessment |
| Calculation method                  |

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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