according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

Version **Revision Date:** SDS Number: Date of last issue: 09/17/2020 S00041517350 Date of first issue: 10/11/2017 3.0 11/15/2024

### **SECTION 1. IDENTIFICATION**

Product name : AMISTAR TOP Design code : A13703O

Product Registration number : 100-1313

Manufacturer or supplier's details

Company name of supplier Syngenta Crop Protection, LLC

Post Office Box 18300 Address Greensboro NC 27419

United States of America (USA)

Telephone 1 800 334 9481 Telefax 1 336 632 2192

E-mail address sds.requests@syngenta.com

1 800 888 8372 Emergency telephone

Recommended use of the chemical and restrictions on use

Recommended use Fungicide

Restrictions on use General Use Pesticide

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) Category 4

Skin sensitization Category 1

Specific target organ toxicity

- repeated exposure

Category 2 (Bile duct)

**GHS** label elements

Hazard pictograms





Signal Word Warning

**Hazard Statements** H302 + H332 Harmful if swallowed or if inhaled.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs (Bile duct) through pro-

longed or repeated exposure.

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

Version Revision Date: SDS Number: Date of last issue: 09/17/2020 3.0 11/15/2024 S00041517350 Date of first issue: 10/11/2017

Precautionary Statements : Prevention:

P260 Do not breathe mist or vapors.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P314 Get medical advice/ attention if you feel unwell.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

### Other hazards

None known.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

### Components

| Chemical name   | CAS-No.     | Concentration (% w/w) |
|---|-------------|-----------------------|
| Azoxystrobin  | 131860-33-8 | 18.1818               |
| difenoconazole  | 119446-68-3 | 11.3636               |
| propane-1,2,3-triol   | 56-81-5     | >= 1 - < 5            |
| Residues (petroleum), catalytic re-<br>former fractionator, sulfonated, poly-<br>mers with formaldehyde, sodium salts | 68425-94-5  | >= 1 - < 5            |
| 1,2-benzisothiazol-3(2H)-one  | 2634-33-5   | >= 0.05 - < 0.1       |

Actual concentration is withheld as a trade secret

### **SECTION 4. 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 : Take the victim into fresh air.

If breathing is irregular or stopped, administer artificial

respiration.

Keep patient warm and at rest.

Call a physician or poison control center immediately.

according to the OSHA Hazard Communication Standard



AMISTAR TOP

SDS Number: Version **Revision Date:** Date of last issue: 09/17/2020 S00041517350 Date of first issue: 10/11/2017 3.0 11/15/2024

Take off all contaminated clothing immediately. In case of skin contact

> Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Rinse immediately with plenty of water, also under the eyelids, In case of eye contact

> 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.

Most important symptoms and effects, both acute and

delayed

Nonspecific No symptoms known or expected.

Harmful if swallowed or if inhaled. May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated

exposure.

There is no specific antidote available. Notes to physician

Treat symptomatically.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

Water spray

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread

Specific hazards during fire

fighting

As the product contains combustible organic ingredients, 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 prod: :

ucts

Carbon oxides

Nitrogen oxides (NOx) Chlorine compounds Fluorine compounds

Sulfur oxides

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.

Special protective equipment :

for fire-fighters

Wear full protective clothing and self-contained breathing

apparatus.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

Personal precautions, protective equipment and emer-

gency procedures

Refer to protective measures listed in sections 7 and 8.

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.

Methods and materials for containment and 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.

#### **SECTION 7. HANDLING AND STORAGE**

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.

Conditions for safe storage : 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.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Ingredients with workplace control parameters

| Components          | CAS-No.     | Value type<br>(Form of<br>exposure)    | Control parameters / Permissible concentration | Basis    |
|---------------------|-------------|--|--|----------|
| Azoxystrobin        | 131860-33-8 | TWA                                    | 0.7 mg/m3                                      | Syngenta |
| difenoconazole      | 119446-68-3 | TWA                                    | 5 mg/m3  | Syngenta |
| propane-1,2,3-triol | 56-81-5     | TWA (mist, respirable fraction)        | 5 mg/m3  | OSHA Z-1 |
|                     |             | TWA (mist, total dust)                 | 15 mg/m3                                       | OSHA Z-1 |
|                     |             | TWA (Mist -<br>total dust)             | 10 mg/m3                                       | OSHA P0  |
|                     |             | TWA (Mist -<br>respirable<br>fraction) | 5 mg/m3  | OSHA P0  |

Engineering measures : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE

CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

### CONSULT THE PRODUCT LABEL.

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

Respiratory protection :

Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide

adequate protection.

Hand protection

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 from 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.

Eve protection : No special protective equipment required.

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: Impervious clothing

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**

Appearance : liquid

Color : beige

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

Odor : No data available

Odor Threshold : No data available

pH : 6.0 - 9.0

Concentration: 100 %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

Vapor pressure : No data available

Relative vapor density : No data available

Density : 1.10 - 1.14 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : 932 °F / 500 °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.

Particle characteristics

Particle size : No data available

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

Version Revision Date: SDS Number: Date of last issue: 09/17/2020 3.0 11/15/2024 S00041517350 Date of first issue: 10/11/2017

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : None reasonably foreseeable. Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- :

tions

Conditions to avoid : No decomposition if used as directed.

Incompatible materials : None known.

Hazardous decomposition : No hazardou

products

: No hazardous decomposition products are known.

No dangerous reaction known under conditions of normal use.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Ingestion Inhalation Skin contact Eye contact

### **Acute toxicity**

Harmful if swallowed or if inhaled.

**Product:** 

Acute oral toxicity : LD50 (Mouse, male and female): 1,424 mg/kg

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): 2.06 - < 5.17 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. Remarks: Based on data from similar materials

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:

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 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

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

Acute inhalation toxicity : LC50 (Rat, male and female): > 3.3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,010 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

propane-1,2,3-triol:

Acute oral toxicity : LD50 (Rat, female): > 4,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : LC50 (Rat, male): > 2.75 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formalde-

hyde, sodium salts:

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

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

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:

Species : Rabbit

Result : No skin irritation

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

difenoconazole:

Species : Rabbit

Result : No skin irritation

propane-1,2,3-triol:

Species : Rabbit

Result : No skin irritation

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formalde-

hyde, sodium salts:

Species : reconstructed human epidermis (RhE)

Result : No skin irritation

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

Species : Rabbit

Result : Irritating to skin.

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:

Species : Rabbit

Result : No eye irritation

difenoconazole:

Species : Rabbit

Result : Irritation to eyes, reversing within 7 days

propane-1,2,3-triol:

Species : Rabbit

Result : No eye irritation

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formalde-

hyde, sodium salts:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

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

Species : Rabbit

Result : Risk of serious damage to eyes.

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

### Respiratory or skin sensitization

### Skin sensitization

May cause an allergic skin reaction.

### Respiratory sensitization

Not classified due to lack of data.

### **Components:**

Azoxystrobin:

Species : Guinea pig

Result : Does not cause skin sensitization.

difenoconazole:

Species : Guinea pig

Result : Does not cause skin sensitization.

propane-1,2,3-triol:

Species : Guinea pig

Result : Not a skin sensitizer.

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

Result : Probability or evidence of high skin sensitization rate in

humans

### Germ cell mutagenicity

Not classified due to lack of data.

### **Components:**

Azoxystrobin:

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

Assessment

difenoconazole:

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

Assessment

propane-1,2,3-triol:

Germ cell mutagenicity - : In vitro tests did not show mutagenic effects

Assessment

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

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

Assessment cell mutagen.

## Carcinogenicity

Not classified due to lack of data.

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

Version Revision Date: SDS Number: Date of last issue: 09/17/2020 3.0 11/15/2024 S00041517350 Date of first issue: 10/11/2017

**Components:** 

Azoxystrobin:

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

difenoconazole:

Carcinogenicity - Assess-

ment

Weight of evidence does not support classification as a car-

cinogen

propane-1,2,3-triol:

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

ment

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified due to lack of data.

**Components:** 

Azoxystrobin:

Reproductive toxicity - As-

sessment

No toxicity to reproduction, No effects on or via lactation

difenoconazole:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

propane-1,2,3-triol:

Reproductive toxicity - As-

sessment

No toxicity to reproduction, No effects on or via lactation

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

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for

reproductive toxicity

STOT-single exposure

Not classified due to lack of data.

**Components:** 

difenoconazole:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT-repeated exposure

May cause damage to organs (Bile duct) through prolonged or repeated exposure.

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

**Components:** 

Azoxystrobin:

Target Organs : Bile duct

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

difenoconazole:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

propane-1,2,3-triol:

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.

**Aspiration toxicity** 

Not classified due to lack of data.

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

## Components:

Azoxystrobin:

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

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.28 mg/l

Exposure time: 48 h

EC50 (Americamysis): 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

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.16 mg/l

Exposure time: 28 d

EC10 (Pimephales promelas (fathead minnow)): 0.2197 mg/l

Exposure time: 33 d

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.044 mg/l

Exposure time: 21 d

NOEC (Americamysis): 0.00954 mg/l

Exposure time: 28 d

Toxicity to microorganisms : IC50 (Pseudomonas putida): > 3.2 mg/l

Exposure time: 6 h

difenoconazole:

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

Exposure time: 96 h

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

EC10 (Navicula pelliculosa (Freshwater diatom)): 0.0697 mg/l

End point: Growth rate 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

Toxicity to fish (Chronic tox-

icity)

EC10 (Pimephales promelas (fathead minnow)): 0.01298 mg/l

Exposure time: 34 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

EC10 (Daphnia magna (Water flea)): 0.0078 mg/l

Exposure time: 21 d

EC10 (Americamysis): 0.00572 mg/l

Exposure time: 28 d

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l

Exposure time: 3 h

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.18 mg/l

Exposure time: 96 h

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

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

NOEC (Raphidocelis subcapitata (freshwater green alga)):

0.055 mg/l

End point: Growth rate Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.21 mg/l

Exposure time: 28 d

### Persistence and degradability

### **Components:**

Azoxystrobin:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 224 d

Remarks: Persistent in water.

difenoconazole:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 1 d

Remarks: Product is not persistent.

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formalde-

hyde, sodium salts:

Biodegradability : Result: Not readily biodegradable.

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

Biodegradability : Result: Not readily biodegradable.

**Bioaccumulative potential** 

**Components:** 

Azoxystrobin:

Bioaccumulation : Remarks: Does not bioaccumulate.

difenoconazole:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 4.4 (77 °F / 25 °C)

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

**Revision Date:** Version SDS Number: Date of last issue: 09/17/2020 S00041517350 Date of first issue: 10/11/2017 3.0 11/15/2024

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

Bioaccumulation Remarks: Bioaccumulation is unlikely.

Mobility in soil

Components:

Azoxystrobin:

Distribution among environ-

mental compartments

Stability in soil

Remarks: Low mobility in soil.

Dissipation time: 81.3 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

difenoconazole:

Distribution among environ-

mental compartments

Remarks: Slightly mobile in soils

Stability in soil Dissipation time: 122 d

> Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

Other adverse effects

**Components:** 

Azoxystrobin:

Results of PBT and vPvB

assessment

Substance is not persistent, bioaccumulative, and toxic (PBT).

Substance is not very persistent and very bioaccumulative

(vPvB).

difenoconazole:

Results of PBT and vPvB

assessment

Substance is not persistent, bioaccumulative, and toxic (PBT).

Substance is not very persistent and very bioaccumulative

(vPvB).

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

Results of PBT and vPvB

assessment

Substance is not persistent, bioaccumulative, and toxic (PBT).

Substance is not very persistent and very bioaccumulative

(vPvB).

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues 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.

This product will not be classified as a RCRA characteristic

hazardous waste when discarded.

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

Version **Revision Date:** SDS Number: Date of last issue: 09/17/2020 S00041517350 Date of first issue: 10/11/2017 3.0 11/15/2024

Empty remaining contents. Contaminated packaging

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**

### International Regulations

**UNRTDG** 

**UN** number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(AZOXYSTROBIN, DIFENOCONAZOLE)

Class 9 Ш Packing group 9 Labels Environmentally hazardous yes

This product can be subject to exemptions when packaged in Remarks

> 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-DGR** 

UN/ID No. UN 3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

(AZOXYSTROBIN, DIFENOCONAZOLE)

9 Class Packing group Ш

Miscellaneous Labels

Packing instruction (cargo 964

aircraft)

Packing instruction (passen-

ger aircraft)

Environmentally hazardous yes

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-Code** 

**UN** number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

964

(AZOXYSTROBIN, DIFENOCONAZOLE)

9 Class Ш Packing group Labels 9 F-A, S-F **EmS Code** Marine pollutant

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.

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

Remarks : Shipment by ground under DOT is non-regulated; however it

may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

### 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.

#### **SECTION 15. REGULATORY INFORMATION**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: Caution

Harmful if swallowed.

Harmful if absorbed through skin.

Causes moderate eye irritation.

Avoid contact with skin, eyes or clothing.

Wear protective eyewear.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove and wash contaminated clothing before re-use.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **SECTION 16. OTHER INFORMATION**

### **Further information**

according to the OSHA Hazard Communication Standard

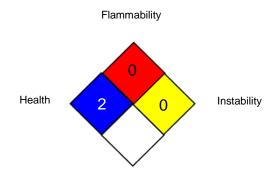


# **AMISTAR TOP**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

### NFPA 704:



Special hazard

### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

OSHA PO : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

Syngenta : Syngenta Occupational Exposure Limits

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average Syngenta / TWA : Time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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 - (Quanti-

according to the OSHA Hazard Communication Standard



**AMISTAR TOP** 

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 09/17/2020

 3.0
 11/15/2024
 S00041517350
 Date of first issue: 10/11/2017

tative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

Revision Date : 11/15/2024

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.

US / Z8