

AMISTAR XTRA

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

1.2 26.09.2022 S164828139

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

1.1 Product identifier

Trade name : AMISTAR XTRA

Design code : A12910C

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

Use of the : Fungicide

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Syngenta SA (Pty) Ltd

P.O. Box 1044, No. 4 Krokodildrift Avenue

Brits 0250 South Africa

Telephone : +27 (0)12 2506 300

Telefax : -

E-mail address of person

responsible for the SDS

: sds.ame@syngenta.com

1.4 Emergency telephone number

Emergency telephone : +27 (0) 82 446 8946 (Griffon)

number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.
Acute toxicity, Category 4 H332: Harmful if inhaled.
Short-term (acute) aquatic hazard, H400: Very toxic to aquatic life.

Category 1

Long-term (chronic) aquatic hazard, H410: Very toxic to aquatic life with long lasting

Category 1 effects.

Reproductive toxicity, Category 2 H361d: Suspected of damaging the unborn child. Specific target organ toxicity - repeated H373: May cause damage to organs through

exposure, Category 2 prolonged or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning



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

1.2 26.09.2022 S164828139

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.

H361d Suspected of damaging the unborn child. H373 May cause damage to organs (Liver) through

prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P201 Obtain special instructions before use.
P261 Avoid breathing mist or vapours.
P273 Avoid release to the environment.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P391 Collect spillage.

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): 10 M-Factor (Chronic aquatic toxicity): 10	>= 10 - < 20
cyproconazole (ISO)	94361-06-5 650-032-00-X 01-2120875673-42- xxxx	Acute Tox. 3; H301 Repr. 1B; H360D STOT RE 2; H373 (Liver) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 10



AMISTAR XTRA

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

1.2 26.09.2022 S164828139

		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	
Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts	68425-94-5	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 3
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60- xxxx	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 ——————————————————————————————————	>= 0,025 - < 0,05

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Have the product container, label or Safety Data Sheet with

you when calling the emergency number, a poison control

center or physician, or going for treatment.

If inhaled : Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial

respiration.

Keep patient warm and at rest.

Call a physician or poison control centre immediately.

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

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

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

for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

If swallowed : If swallowed, seek medical advice immediately and show this

container or label.

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Nonspecific



AMISTAR XTRA

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

1.2 26.09.2022 S164828139

No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : There is no specific antidote available.

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Extinguishing media - small fires

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

carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

or

Water spray

Unsuitable extinguishing

media

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

fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: As the product contains combustible organic components, fire

will produce dense black smoke containing hazardous

products of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health.

5.3 Advice for 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,



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

1.2 26.09.2022 S164828139

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.

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.

Further information on

storage stability

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient

temperatures.

7.3 Specific end use(s)

Specific use(s) : For proper and safe use of this product, please refer to the

approval conditions laid down on the product label.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
azoxystrobin (ISO)	131860-33- 8	TWA	4 mg/m3	Syngenta
cyproconazole (ISO)	94361-06-5	TWA	0,4 mg/m3	Syngenta

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health	Value
			effects	
cyproconazole (ISO)	Workers	Inhalation	Long-term systemic	0,544 mg/m3
			effects	
	Consumers	Oral	Long-term systemic	0,032 mg/kg
			effects	bw/day
	Consumers	Dermal	Long-term systemic	0,172 mg/kg
			effects	bw/day



AMISTAR XTRA

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

1.2 26.09.2022 S164828139

	Consumers	Inhalation	Long-term systemic effects	0,096 mg/m3
	Workers	Dermal	Long-term systemic effects	0,48 mg/kg bw/day
1,2-benzisothiazol- 3(2H)-one	Workers	Inhalation	Long-term systemic effects	6,81 mg/m3
	Workers	Dermal	Long-term systemic effects	0,966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,2 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,345 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
cyproconazole (ISO)	Fresh water	0,0021 mg/l
	Freshwater - intermittent	0,00077 mg/l
	Marine water	0,00021 mg/l
	Marine water - intermittent	0,0026 mg/l
	Sewage treatment plant	3,2 mg/l
	Soil	0,011 mg/kg
	Fresh water sediment	0,5 mg/kg
	Marine sediment	0,05 mg/kg
	Secondary poisoning	0,6 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

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 Hand protection

No special protective equipment required.

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



AMISTAR XTRA

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

1.2 26.09.2022 S164828139

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: Impervious clothing

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 : suspension

Colour : light yellow to yellow

Odour : sweetish

Odour Threshold : No data available

pH : 5-9

Concentration: 1 % 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



AMISTAR XTRA

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

1.2 26.09.2022 S164828139

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/cm3 (20 °C)

Solubility(ies)

Water solubility : Miscible Solubility in other solvents : Solvent: Water

Partition coefficient: n-

No data available

octanol/water

Auto-ignition temperature : 455 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 124 - 657 mPa.s (40 °C)

203 - 855 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 : 29,4 mN/m, 20 °C

Particle size : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.



AMISTAR XTRA

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

1.2 26.09.2022 S164828139

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

Eve contact

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, female): > 500 - < 2.000 mg/kg

Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): > 2,58 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The component/mixture is moderately toxic after short term inhalation., The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

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



AMISTAR XTRA

Version **Revision Date:** SDS Number: This version replaces all previous versions.

26.09.2022 S164828139 1.2

Assessment: The substance or mixture has no acute dermal

toxicity

cyproconazole (ISO):

Acute oral toxicity LD50 (Rat, male): 350 mg/kg

LC50 (Rat, male and female): > 2,03 mg/l Acute inhalation toxicity

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute

inhalation toxicity

LD50 (Rat, male and female): > 2.000 mg/kg Acute dermal toxicity

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

LD50 (Rat, male and female): > 2.000 mg/kg Acute dermal toxicity

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Product:

Species Rabbit

Result No skin irritation

Components:

azoxystrobin (ISO):

Species Rabbit

Result No skin irritation

cyproconazole (ISO):

Species Rabbit

Result No skin irritation

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

Method in vitro skin corrosion test

Result Irritating to skin.

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

Species Rabbit

Result Mild skin irritation



AMISTAR XTRA

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

1.2 26.09.2022 \$164828139

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

cyproconazole (ISO):

Species : Rabbit

Result : No eye irritation

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

Method : in vitro eye irritation test

Result : Risk of serious damage to eyes.

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

Species : Rabbit

Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Test Type : Buehler Test Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

Components:

azoxystrobin (ISO):

Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

cyproconazole (ISO):

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



AMISTAR XTRA

Version **Revision Date:** SDS Number: This version replaces all previous versions.

S164828139 1.2 26.09.2022

Germ cell mutagenicity

Components:

azoxystrobin (ISO): Germ cell mutagenicity-

Assessment

Animal testing did not show any mutagenic effects.

cyproconazole (ISO):

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.

cyproconazole (ISO):

Carcinogenicity -

Assessment

No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

azoxystrobin (ISO):

Reproductive toxicity -

Assessment

No toxicity to reproduction

cyproconazole (ISO):

Reproductive toxicity -

Assessment

Some evidence of adverse effects on development, based on

animal experiments.

STOT - repeated exposure

Components:

azoxystrobin (ISO):

Assessment The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

cyproconazole (ISO):

Target Organs Liver

Assessment The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.



AMISTAR XTRA

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

1.2 26.09.2022 \$164828139

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,8 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1,2 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)):

4,27 mg/l

Exposure time: 96 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):

0,25 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

EC50 (Americamysis): 0,055 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 2

mg/I

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

Toxicity to microorganisms : IC50 (Pseudomonas putida): > 3,2 mg/l

Exposure time: 6 h



AMISTAR XTRA

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

1.2 26.09.2022 \$164828139

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

cyproconazole (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 19 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 26 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 0,077 mg/l

Exposure time: 96 h

NOEC (Desmodesmus subspicatus (green algae)): 0,021 mg/l

Exposure time: 96 h

ErC50 (Lemna gibba (gibbous duckweed)): > 0,2 mg/l

Exposure time: 7 d

NOEC (Lemna gibba (gibbous duckweed)): 0,025 mg/l

End point: Growth rate Exposure time: 7 d

M-Factor (Acute aquatic

toxicity)

10

Toxicity to fish (Chronic

toxicity)

NOEC: 0,305 mg/l Exposure time: 93 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 0,023 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic

toxicity)

: 1

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,18 mg/l

Exposure time: 96 h



AMISTAR XTRA

Version **Revision Date:** SDS Number: This version replaces all previous versions.

26.09.2022 S164828139 1.2

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

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.

Degradation half life: 214 d Stability in water

Remarks: The substance is stable in water.

cyproconazole (ISO):

Biodegradability Result: Not readily biodegradable.

Stability in water Degradation half life: 5 d (20 °C)

Remarks: Product is not persistent.

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

formaldehyde, sodium salts:

Biodegradability Result: Not readily biodegradable.

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

Biodegradability Result: rapidly degradable



AMISTAR XTRA

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

1.2 26.09.2022 \$164828139

12.3 Bioaccumulative potential

Components:

azoxystrobin (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

cyproconazole (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 3,1 (25 °C)

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

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil

Components:

azoxystrobin (ISO):

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

environmental compartments

Stability in soil : Dissipation time: 80 d

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

cyproconazole (ISO):

Distribution among

environmental compartments

Remarks: Low to medium mobility in soil.

Stability in soil : Dissipation time: 100 - 124 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).

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



AMISTAR XTRA

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

1.2 26.09.2022 \$164828139

(vPvB).

12.6 Other adverse effects

Product:

Endocrine disrupting : The substance/mixture does not contain components

potential

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

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

 UNRTDG
 : UN 3082

 IMDG
 : UN 3082

 IATA
 : UN 3082

14.2 UN proper shipping name

UNRTDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(AZOXYSTROBIN, CYPROCONAZOLE)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(AZOXYSTROBIN AND CYPROCONAZOLE)

IATA : Environmentally hazardous substance, liquid, n.o.s.

(AZOXYSTROBIN AND CYPROCONAZOLE)

14.3 Transport hazard class(es)

UNRTDG : 9



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

1.2 26.09.2022 \$164828139

IMDG : 9
IATA : 9

14.4 Packing group

UNRTDG

Packing group : III Labels : 9

IMDG

Packing group : III Labels : 9

EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964 Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction : 964

(passenger aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

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

Other regulations:

None known.



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

1.2 26.09.2022 \$164828139

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

H301 : Toxic if swallowed. H302 : Harmful if swallowed. H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.

H331 : Toxic if inhaled.

H360D : May damage the unborn child.

H373 : May cause damage to organs through prolonged or repeated

exposure.

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 Repr. : Reproductive toxicity Skin Irrit. : Skin irritation Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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;



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

1.2 26.09.2022 S164828139

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: Classification procedure: Acute Tox. 4 H302 Based on product data or assessment Acute Tox. 4 H332 Based on product data or assessment Aquatic Acute 1 H400 Calculation method Aquatic Chronic 1 H410 Calculation method Repr. 2 H361d Calculation method STOT RE 2 Calculation method H373

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.

ZA / EN