

# **AMISTAR MAX**

Version Revision Date: SDS Number: Date of last issue: 19.07.2023 2.0 05.01.2024 S00031016837 Date of first issue: 19.07.2023

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AMISTAR MAX

Design code : A12916B

Manufacturer or supplier's details

Company : Syngenta Crop Protection AG

Address : Rosentalstrasse 67, Postfach

CH-4002 Basel Switzerland

Telephone : +41 61 323 11 11

Emergency telephone number : +44 1484 538444

Telefax : +41 61 323 12 12

Recommended use of the chemical and restrictions on use

Recommended use : Fungicide

#### 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Carcinogenicity : Category 2

Specific target organ toxicity - : Cat

repeated exposure

Category 2 (Bile duct)

Short-term (acute) aquatic

hazard

Category 1

Long-term (chronic) aquatic

hazard

Category 1

### **GHS** label elements

Hazard pictograms







Signal word : Warning

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

H351 Suspected of causing cancer.

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



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longed or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P203 Obtain, read and follow all safety instructions before use.

P260 Do not breathe mist or vapours. 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.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

P301 + P317 + P330 IF SWALLOWED: Get medical help.

Rinse mouth.

P304 + P340 + P317 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Get medical help. P318 IF exposed or concerned, get medical advice.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
folpet (ISO)	133-07-3	>= 30 - < 50
azoxystrobin (ISO)	131860-33-8	>= 2.5 - < 10

### 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 : Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial respira-

tion.

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.



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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

No symptoms known or expected. Harmful if swallowed or if inhaled.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated

exposure.

Nonspecific

There is no specific antidote available. Notes to physician

Treat symptomatically.

#### 5. FIREFIGHTING MEASURES

Suitable extinguishing media Extinguishing media - small fires

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

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.

Specific hazards during fire-

fighting

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod-

ucts of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health.

Specific extinguishing meth-

ods

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 firefighters

Wear full protective clothing and self-contained breathing ap-

paratus.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive 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



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/ national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

Retain and dispose of contaminated wash water.

#### 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. Physically and chemically stable for at least 2 years when

stored in the original unopened sales container at ambient temperatures.

Further information on stor-

age stability

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
folpet (ISO)	133-07-3	TWA	0.4 mg/m3	Syngenta
		TWA (Inhal-	1 mg/m3	ACGIH
		able particu-		
		late matter)		
azoxystrobin (ISO)	131860-33-8	TWA	0.7 mg/m3	Syngenta

### **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 ad-

vice.

### Personal protective equipment

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 max-

imum expected contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-



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contained breathing apparatus must be used.

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.

Eye protection : No special protective equipment required.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific 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 appro-

priate professional advice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : suspension

Colour : white to beige

Odour : Strong pungent

Odour Threshold : No data available

pH : 4-8

Concentration: 1 %w/v (aqueous suspension)

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Method: Pensky-Martens closed cup

does not flash



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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 : 1.28 g/cm3 (20 °C)

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : > 650 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 145 - 415 mPa.s ( 20 °C)

106 - 291 mPa.s (40 °C)

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Surface tension : 47.3 mN/m, 21 °C

Particle size : No data available

# 10. STABILITY AND REACTIVITY

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

Possibility of hazardous reac-

tions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : No decomposition if used as directed.

Incompatible materials : None known.

Hazardous decomposition

products

: No hazardous decomposition products are known.



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#### 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(Rat, male and female): 1,889 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 3.22 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Assessment: The substance/mixture is not toxic on inhalation

as defined by dangerous goods regulations.

Acute toxicity estimate: 3.21 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

**Components:** 

folpet (ISO):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

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

icity

Acute inhalation toxicity : LC50 (Rat): 1.89 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

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 dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg



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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

Result : Repeated exposure may cause skin dryness or cracking.

**Components:** 

folpet (ISO):

Species : Rabbit

Result : No skin irritation

azoxystrobin (ISO):

Species : Rabbit

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

**Components:** 

folpet (ISO):

Species : Rabbit Result : Eye irritation

azoxystrobin (ISO):

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

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

Respiratory sensitisation

Not classified due to lack of data.

**Product:** 

Test Type : Buehler Test Species : Guinea pig

Result : Does not cause skin sensitisation.



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**Components:** 

folpet (ISO):

**Species** Guinea pig

May cause sensitisation by skin contact. Result

azoxystrobin (ISO):

**Species** Guinea pig

Result Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

folpet (ISO):

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

azoxystrobin (ISO):

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

Carcinogenicity

Suspected of causing cancer.

**Components:** 

folpet (ISO):

Carcinogenicity - Assess-

ment

Limited evidence of carcinogenicity in animal studies

azoxystrobin (ISO):

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Not classified due to lack of data.

**Components:** 

folpet (ISO):

Reproductive toxicity - As-

No toxicity to reproduction

sessment

azoxystrobin (ISO):

Reproductive toxicity - As-

sessment

No toxicity to reproduction, No effects on or via lactation

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

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



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**Components:** 

azoxystrobin (ISO):

Target Organs : Bile duct

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

toxicant, repeated exposure, category 2.

**Aspiration toxicity** 

Not classified due to lack of data.

12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.29 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.6 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 4

mg/l

Exposure time: 72 h

EC10 (Raphidocelis subcapitata (freshwater green alga)):

 $0.75 \, \text{mg/l}$ 

End point: Growth rate Exposure time: 72 h

**Components:** 

folpet (ISO):

Toxicity to fish : LC50 (Salmo trutta (brown trout)): 0.098 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.68 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 ( Desmodesmus subspicatus (green algae)): > 10 mg/l

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

10

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



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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 tox-

icity)

10

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

Exposure time: 6 h

Toxicity to fish (Chronic tox-

icity)

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 (Chron-

ic 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

### Persistence and degradability

#### **Components:**

folpet (ISO):

Biodegradability : Result: Readily biodegradable.

Stability in water : Degradation half life: < 0.05 d

Remarks: Product is not persistent.



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azoxystrobin (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 224 d

Remarks: Persistent in water.

**Bioaccumulative potential** 

**Components:** 

folpet (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

: log Pow: 3.017 (20 °C)

azoxystrobin (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

Mobility in soil

**Components:** 

folpet (ISO):

Distribution among environ-

mental compartments

Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 4.3 d

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

azoxystrobin (ISO):

Distribution among environ-

mental compartments

Remarks: Low mobility in soil.

Stability in soil : Dissipation time: 81.3 d

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

Other adverse effects

**Components:** 

folpet (ISO):

Results of PBT and vPvB

assessment

This substance is not considered to be very persistent and

very bioaccumulating (vPvB).

This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).

azoxystrobin (ISO):

Results of PBT and vPvB : This substance is not considered to be persistent, bioaccumu-



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lating and toxic (PBT). assessment

This substance is not considered to be very persistent and

very bioaccumulating (vPvB).

#### 13. DISPOSAL CONSIDERATIONS

**Disposal methods** 

Waste from residues Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incinera-

If recycling is not practicable, dispose of in compliance with

local regulations.

Empty remaining contents. Contaminated packaging

Triple rinse containers.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal. Do not re-use empty containers.

#### 14. TRANSPORT INFORMATION

#### International Regulations

**UNRTDG** 

**UN** number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(AZOXYSTROBIN, FOLPET)

Class Packing group 9 Ш 9

Labels

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.

**IATA-DGR** 

UN/ID No. UN 3082

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

(AZOXYSTROBIN, FOLPET)

Class 9 Packing group Ш

Miscellaneous Labels

Packing instruction (cargo

aircraft)

Packing instruction (passen-

964

964

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



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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.

(AZOXYSTROBIN, FOLPET)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F

Marine pollutant : 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.

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

Not applicable for product as supplied.

Special precautions for user

Remarks : This product should not be transported in Sealed freight con-

tainers (Transport Equivalent Units)., Vented packages may

not be transported by air.

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.

### 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

This Safety Data Sheet contains no country specific regulatory information. It may not meet the regulatory requirements of a specific country.

#### 16. OTHER INFORMATION

Revision Date : 05.01.2024

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

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
Syngenta : Syngenta Occupational Exposure Limit

ACGIH / TWA : 8-hour, time-weighted average

Syngenta / TWA : Time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for



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Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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 - (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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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.

ZG / EN