

AMISTAR TOP 325SC

Version 1.0 Revision Date: 2023/08/10

SDS Number: S1103051120

This version replaces all previous versions.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AMISTAR TOP 325SC

Design code : A13703G

Manufacturer or supplier's details

Company : PT. Syngenta Indonesia

Address : CIBIS Nine Lantai 6, Jl. TB. Simatupang No.2

12560 Jakarta Indonesia

Telephone : (62-21) 3042 1000

Emergency telephone number : (62-21) 5735175

Telefax : (62-21) 8068 2838

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

Skin sensitisation : Sub-category 1B

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.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.



AMISTAR TOP 325SC

Version Revision Date: SDS Number: This version replaces all previous versions. 1.0 2023/08/10 S1103051120

Precautionary statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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 should not be allowed out of

the workplace.

P273 Avoid release to the environment.

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 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.

P333 + P313 If skin irritation or rash occurs: Get medical ad-

vice/ attention.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

P391 Collect spillage.

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)	
azoxystrobin (ISO)	131860-33-8	>= 10 -< 25	
difenoconazole	119446-68-3	>= 10 -< 25	
C16-18 alcohols, ethoxylated	68439-49-6	>= 10 -< 30	
naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt	9084-06-4	< 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.



Version **Revision Date:** SDS Number: This version replaces all previous versions. 2023/08/10 S1103051120 1.0

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.

Most important symptoms and effects, both acute and

Nonspecific

No symptoms known or expected. delaved

Notes to physician There is no specific antidote available.

Treat symptomatically.

5. FIREFIGHTING MEASURES

Extinguishing media - small fires Suitable extinguishing media

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

bon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

Water spray

Unsuitable extinguishing

media

fire.

Specific hazards during fire-

fighting

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

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

/ national regulations (see section 13). Clean contaminated surface thoroughly.



Version **Revision Date:** 2023/08/10 1.0

SDS Number: S1103051120 This version replaces all previous versions.

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

Further information on stor-

age stability

temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
azoxystrobin (ISO)	131860-33-8	TWA	4 mg/m3	Syngenta
difenoconazole	119446-68-3	TWA	5 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-

contained breathing apparatus must be used.

Hand protection

Nitrile rubber Material Break through time > 480 min Glove thickness 0,5 mm



Version 1.0

Revision Date: 2023/08/10

SDS Number: S1103051120

This version replaces all previous versions.

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.

Eve 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 : liquid

Colour : light yellow to yellow

Odour : weak

Odour Threshold : No data available

pH : 5-9

Concentration: 1 %w/v

7,5 - 8,5 (20 °C)

Concentration: 100 %w/v

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Method: Pensky-Martens closed cup

does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available



AMISTAR TOP 325SC

Version 1.0

Revision Date: 2023/08/10

SDS Number: S1103051120 This version replaces all previous versions.

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure No data available

Relative vapour density No data available

Density 1,11 g/cm3 (20 °C)

Solubility(ies)

Solubility in other solvents No data available

Partition coefficient: n-

octanol/water

No data available

505 °C Auto-ignition temperature

Decomposition temperature No data available

Viscosity

Viscosity, dynamic 169 - 646 mPa.s (20 °C)

98,0 - 472 mPa.s (40 °C)

No data available Viscosity, kinematic

Explosive properties Not explosive

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

Surface tension 27,9 mN/m, %20 °C

Particle size No data available

10. STABILITY AND REACTIVITY

Conditions to avoid

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

Possibility of hazardous reac-

tions

No decomposition if used as directed.

Incompatible materials None known.

Hazardous decomposition

products

No hazardous decomposition products are known.

No dangerous reaction known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of:

exposure

Ingestion Inhalation Skin contact

Eye contact

Acute toxicity

Product:



AMISTAR TOP 325SC

Version Revision Date: SDS Number: This version replaces all previous versions. 1.0 2023/08/10 S1103051120

Acute oral toxicity : LD50 (Mouse, male and female): 1.424 mg/kg

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.

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

Assessment: The substance or mixture has no acute dermal

toxicity

Components:

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 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

Acute inhalation toxicity : LC50 (Rat, male and female): > 3.300 mg/m3

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute 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

C16-18 alcohols, ethoxylated:

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

single ingestion.

Skin corrosion/irritation

Product:

Species : Rabbit

Result : No skin irritation

Components:

azoxystrobin (ISO):

Species : Rabbit



AMISTAR TOP 325SC

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

2023/08/10 S1103051120 1.0

Result No skin irritation

difenoconazole:

Species Rabbit

Result No skin irritation

naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt:

Species Rabbit

Irritating to skin. Result

Serious eye damage/eye irritation

Product:

Species Rabbit

No eye irritation Result

Components:

azoxystrobin (ISO):

Species Rabbit

Result No eye irritation

difenoconazole:

Species Rabbit

Irritation to eyes, reversing within 7 days Result

C16-18 alcohols, ethoxylated:

Result Irreversible effects on the eye

naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt:

Species Rabbit

Result Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation

Product:

Test Type **Buehler Test Species** Guinea pig

Result The product is a skin sensitiser, sub-category 1B.

Components:

azoxystrobin (ISO):

Species Guinea pig

Result Did not cause sensitisation on laboratory animals.



AMISTAR TOP 325SC

Version Revision 1.0 2023/0

Revision Date: 2023/08/10

SDS Number: S1103051120

This version replaces all previous versions.

difenoconazole:

Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

azoxystrobin (ISO):

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

difenoconazole:

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

azoxystrobin (ISO):

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

Reproductive toxicity

Components:

azoxystrobin (ISO):

Reproductive toxicity - As-

sessment

No toxicity to reproduction

difenoconazole:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

STOT - single exposure

Components:

difenoconazole:

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

organ toxicant, single exposure.

STOT - repeated exposure

Components:

azoxystrobin (ISO):

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

organ toxicant, repeated exposure.



AMISTAR TOP 325SC

Version Revision Date: SDS Number: This version replaces all previous versions. 1.0 2023/08/10 S1103051120

difenoconazole:

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

organ toxicant, repeated exposure.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,7 mg/l

Exposure time: 96 h

LC50 (Cyprinus carpio (Carp)): 4,2 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 3,9

mg/l

Exposure time: 96 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):

0,23 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/l

Exposure time: 96 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):

0,038 mg/l

End point: Growth rate Exposure time: 96 h

ErC50 (Navicula pelliculosa (Freshwater diatom)): 0,301 mg/l

Exposure time: 96 h

NOEC (Navicula pelliculosa (Freshwater diatom)): 0,02 mg/l

End point: Growth rate



AMISTAR TOP 325SC

Version 1.0

Revision Date: 2023/08/10

SDS Number: S1103051120

This version replaces all previous versions.

Exposure time: 96 h

M-Factor (Acute aquatic tox-

icity)

10

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0,16 mg/l

Exposure time: 28 d

NOEC (Pimephales promelas (fathead minnow)): 0,147 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): 0,0095 mg/l

Exposure time: 28 d

M-Factor (Chronic aquatic

toxicity)

10

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

M-Factor (Acute aquatic tox-

icity)

: 10

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

M-Factor (Chronic aquatic : 10



AMISTAR TOP 325SC

Version 1.0

Revision Date: 2023/08/10

SDS Number: S1103051120

This version replaces all previous versions.

toxicity)

Toxicity to microorganisms

EC50 (activated sludge): > 100 mg/l

Exposure time: 3 h

Persistence and degradability

Components:

azoxystrobin (ISO):

Biodegradability Result: Not readily biodegradable.

Stability in water Degradation half life: 214 d

Remarks: The substance is stable in water.

difenoconazole:

Biodegradability Result: Not readily biodegradable.

Stability in water Degradation half life: 1 d

Remarks: Product is not persistent.

naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphtha-

lenesulfonic acid, sodium salt:

Biodegradability Result: Not readily biodegradable.

Bioaccumulative potential

Components:

azoxystrobin (ISO):

Bioaccumulation Remarks: Does not bioaccumulate.

difenoconazole:

Bioaccumulation Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 4,4 (25 °C)

Mobility in soil

Components:

azoxystrobin (ISO):

Distribution among environ-

mental compartments

Stability in soil Dissipation time: 80 d

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

Remarks: Slightly mobile in soils

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

difenoconazole:

Distribution among environ-

mental compartments

Stability in soil Dissipation time: 122 d

Percentage dissipation: 50 % (DT50)



AMISTAR TOP 325SC

Version 1.0

Revision Date: 2023/08/10

SDS Number: S1103051120

This version replaces all previous versions.

Remarks: Product is not persistent.

Other adverse effects

Components:

azoxystrobin (ISO):

Results of PBT and vPvB

assessment

: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

difenoconazole:

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT). 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-

tion.

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 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, DIFENOCONAZOLE)

Class : 9
Packing group : III
Labels : 9

Remarks : This product can be subject to exemptions when packaged in

single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a

net mass of 5 kg or less for solids.

IATA-DGR

UN/ID No. : UN 3082

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

(AZOXYSTROBIN, DIFENOCONAZOLE)

Class : 9



Version **Revision Date:** SDS Number: This version replaces all previous versions. 2023/08/10 S1103051120 1.0

Packing group Ш

Labels Miscellaneous

Packing instruction (cargo

aircraft)

964

Packing instruction (passen-

ger aircraft)

964

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.

(AZOXYSTROBIN, DIFENOCONAZOLE)

Class Ш Packing group 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

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances **Hazardous to Health**

Hazardous substances that must be registered Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use Not applicable

Prohibited substances Not applicable

Restricted substances Not applicable



Version Re

Revision Date: SDS Number: 2023/08/10 S1103051120

This version replaces all previous versions.

16. OTHER INFORMATION

Revision Date : 2023/08/10 Date format : yyyy/mm/dd

Full text of other abbreviations

Syngenta : Syngenta Occupational Exposure Limit

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 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.

ID / EN