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Version: 8.0 / 29 January 2025

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: AMISTAR
Design Code: A12705B
Recommended Use: Fungicide

Company Details: Syngenta Crop Protection Limited

Address: Level 4,

60 Parnell Road,

Parnell

AUCKLAND 1052 NEW ZEALAND

Telephone number: (weekdays) 09 306 1500 Emergency Telephone number: (24 Hours) 0800 734 607

National Poisons & Hazchem

Information Centre: 0800 POISON (0800 764 766)

Section 2: HAZARDS IDENTIFICATION

GHS classification:

Acute inhalation toxicity: Category 4
Eye irritation: Category 2
Hazardous to the aquatic environment, chronic: Category 2

GHS label elements:

Hazard pictogram:



Signal word: WARNING

Hazard statements: H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements: **Prevention:**

P261 Avoid breathing mist or spray.

P271 Use only outdoors or in a well-ventilated area.

P264 Wash thoroughly after handling.P280 Wear eye protection/face protection.

Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P312 Call a Poison Centre/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal

plant.

Other hazards which do not result in classification:

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture:				
Chemical Identity of ingredients:				
Ingredient	CAS no.	Content (% w/w)		
Azoxystrobin	131860-33-8	25		
C16-18 alcohols, ethoxylated	68439-49-6	>=10-<20		
Naphthalenesulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenesulfonic acid, sodium salt	9084-06-4	>=1-<3		
1,2-benzisothiazol-3(2H)-one	2634-33-5	>=0.025-<0.05		
other ingredients determined not to be hazardous	-	to 100%		

Section 4: FIRST AID MEASURES

Description of First Aid measures:

General Advice: For advice contact the National Poisons Centre on 0800 POISON

(0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to

mouth. Obtain medical attention.

If inhaled:Move the victim to fresh air and keep at rest in a position comfortable for

breathing.

If breathing is irregular or stopped, administer artificial respiration.

Keep patient warm and at rest.

Call a Doctor or the National Poisons 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 doctor. 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 (if present). Immediate medical attention is required.

If swallowed: If swallowed seek medical advice immediately and show the container or

label.

DO NOT induce vomiting.

Important symptoms and effects, both acute and delayed:

Symptoms: No information available.

Indication of any immediate medical attention and special treatment needed:

There is no specific antidote available.

Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Small fires:

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

dioxide. 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.

Special hazards arising from the substance or mixture:

Specific hazards during fire-

fighting:

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

combustion (see section 10)

Exposure to decomposition products may be a hazard to health.

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: ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency 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 material for containment and cleaning up:

Contain spillage, and the collect with non-combustible absorbent material, (eg, sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). If the product contaminates rivers and lakes or drains

inform respective authorities.

Reference to other sections: Refer to disposal considerations listed in Section 13.

Refer to protective measures listed in sections 7 and 8.

Section 7: HANDLING AND STORAGE

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.

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 reach of children.

Keep away from food, drink and animal feeding stuffs.

Other data: Physically and chemically stable for at least 2 years when stored in the

original unopened sales container at ambient temperatures.

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 CONTROL / PERSONAL PROTECTION

Control Paran	reters	

Occupational Exposure Limits:

Components	CAS No	Exposure limit	Type of exposure limit	Source
Azoxystrobin	131860-33-8	4 mg/m ³	TWA	CH SUVA

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 Protection:

Eye protection: No special protective equipment required.

Hand protection:

Remarks: No special protective equipment required.

Skin and body protection: No special protective equipment required.

Select skin and body protection based on the physical job

requirements.

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 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

Information on basic physical and chemical properties:

Appearance: liquid

Colour: Off-white to yellow-orange

Odour: Odourless
Odour threshold: No data

pH value 6-8, concentration: 1% w/v

Melting point / freezing point:
Initial boiling point and boiling range:

No data
No data

Flash point: >97°C (975.0 hPa)

Method: Pensky-Martens closed cup

Flammability: No data

Upper / lower flammability / explosive limits: Minimum ignition temperature: 500°C

Minimum ignition energy: 100 - 300 mJ

Vapour pressure:
No data
Vapour Density:
No data

Relative Density: 1.1 g/cm³ (25°C)

Solubility:

Partition co-efficient: n-octanol / water:

Autoignition temperature

No data

475°C

Decomposition temperature:

No data

Viscosity (dynamic): 76.0 – 427 mPa.s (40°C)

117 - 541 mPa.s (20°C)

Explosive properties:Not explosiveOxidising properties:Not oxidisingSurface tension:32.0 mN/m, 20°C

Section 10: STABILITY AND REACTIVITY

Reactivity:

See Section: "Possibility of Hazardous Reactions".

Chemical Stability:

The product is stable when used in normal conditions.

Possibility of Hazardous Reactions:

No dangerous reactions known under conditions of normal use.

Conditions to Avoid

No decomposition if used as directed.

Incompatible Materials:

No substances are known which lead to the formation of hazardous substances or thermal reactions.

Hazardous Decomposition Products:

Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity (product)

Swallowed: LD₅₀ >2000 mg/kg (rat, female)

Dermal absorption: LD₅₀ >2000 mg/kg (rat, male and female)

Inhaled: LC₅₀ (4 h) 2.69 mg/L (rat)

Aspiration hazard: Not classified Respiratory irritation: Not classified

Skin corrosion / irritation: NON-IRRITANT (rabbit)

Eye damage / irritation:
Respiratory or Skin

NOT A SENSITISER (skin - guinea pig)

Sensitisation:

Chronic / Long Term Effects (active ingredient)

Germ cell mutagenicity:

Carcinogenicity:

Animal testing did not show any mutagenic effects.

No evidence of carcinogenicity in animal studies.

Reproductive toxicity: No toxicity to reproduction.

Specific Organ toxicity: Not classified Narcotic Effects: Not classified

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity Effects – aquatic (product)

Acute toxicity to fish: LC₅₀ (96 h) = 1.2 mg/L (Onchorhynchus mykiss [rainbow trout])

 LC_{50} (96 h) = 2.8 mg/L (*Cyprinus carpio* (carp))

Toxicity to daphnia and other

aquatic invertebrates:

Toxicity to algae:

 EC_{50} (48h) = 0.83 mg/L (*Daphnia magna* (water flea))

 E_rC_{50} (96 h) = 2.2 mg/L (*Pseudokirchneriella subcapitata* [green

algae])

Ecotoxicity Effects – terrestrial (active ingredient)

Toxicity to Birds: LD₅₀ = >2000 mg/kg (mallard duck and bobwhite quail)

Toxicity to soil dwelling organisms: LC_{50} (14 days) = 283 mg/kg (earthworms)

Toxicity to Bees: $LD_{50} = >283 \mu g/bee$

Persistence and degradability:

Biodegradability:
Stability in water:

Not readily biodegradable
Degradation half-life: 214 d
The substance is stable in water.

Bioaccumulative potential:

Bioaccumulation: Does not bioaccumulate.

Mobility in soil:

Distribution among environmental

compartments:

Stability in soil: DT₅₀: 80d

Percentage dissipation: 50%

Not persistent in soil.

Other adverse effects:

Results of PBT and vPvBThis substance 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.

Azoxystrobin has low to very high mobility in soil.

Section 13: DISPOSAL CONSIDERATIONS

Product Disposal: DO NOT contaminate ponds, waterways or ditches with chemical or

used containers. DO NOT dispose of waste into sewer. Dispose of this product only by using according to the label. Otherwise, dispose of waste at an approved landfill or other approved facility that will ensure the substance does not exceed the tolerable exposure limit (TEL) or environmental exposure limit (EEL), where relevant, or will treat the

substance so that it is rendered no longer hazardous.

Ensure the container is empty. Triple rinse empty container and add **Container Disposal:** rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Section 14: TRANSPORT INFORMATION

Rail / Road (NZS 5433) UN-No: 3082

> Class: 9

Packing Group: Ш

Proper shipping name: **ENVIRONMENTALLY HAZARDOUS**

SUBSTANCE, LIQUID, N.O.S.

(azoxystrobin)

Sea (IMDG-Code) 3082 UN-No:

> Class: 9 Packing Group: Ш

ENVIRONMENTALLY HAZARDOUS Proper shipping name:

SUBSTANCE, LIQUID, N.O.S.

(azoxystrobin)

EmS Code: F-A, S-F

MARINE POLLUTANT: Yes

Air (ICAO/IATA) UN-No: 3082 Class: 9

Packing Group: Ш

Proper shipping name: **ENVIRONMENTALLY HAZARDOUS**

SUBSTANCE, LIQUID, N.O.S.

(azoxystrobin)

Packing instructions: Y964 (cargo and passenger aircraft)

Section 15: REGULATORY INFORMATION

HSNO Approval Number: HSR000655

Tolerable Exposure Limit or

Environmental Exposure Limit:

No TEL or EELs are set for this substance at this time.

Required Regulatory Controls:

Certified handler: No Tracking: No **Record Keeping:** No **ACVM Registration:** P 4840

ACVM Controls: See www.foodsafety.govt.nz for registration conditions.

International Agreements related

to the substance (eg, Montreal **Protocol, Stockholm Convention** or Rotterdam Convention):

Not applicable

Section 16: OTHER INFORMATION

Date of SDS Preparation / Review:	29.01.25
Version number of SDS:	8.0

Key / Legend to abbreviations and acronyms used:

AICS - Australian Inventory of Chemical Substances:

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;

CPR - Controlled Products Regulations;

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 ActivityRelationship,

RÉACH - Regulation (ÉC) 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;

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;

WES - Workplace Exposure Standard (Worksafe NZ)

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 test.

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