according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

SECTION 1. IDENTIFICATION

Product name : ELATUS FUNGICIDE

Design code : A18126B

Product Registration number : 100-1480

Manufacturer or supplier's details

Company name of supplier : Syngenta Crop Protection, LLC

Address : Post Office Box 18300 Greensboro NC 27419

United States of America (USA)

Telephone : 1 800 334 9481

Telefax : 1 336 632 2192

E-mail address : sds.requests@syngenta.com Emergency telephone : 1 800 888 8372

Recommended use of the chemical and restrictions on use

Recommended use : Fungicide

SECTION 2. HAZARDS IDENTIFICATION

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

Combustible dust

Acute toxicity (Oral) : Category 4

Eye irritation : Category 2A

Skin sensitization : Category 1

Specific target organ toxicity

- repeated exposure

Category 2 (Bile duct)

GHS label elements

Hazard pictograms :





Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

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

longed or repeated exposure.

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

Precautionary Statements : Prevention:

P260 Do not breathe dust.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/ attention if you feel unwell.

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

attention.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

P363 Wash contaminated clothing before reuse.

Disposal:

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

posal plant.

Other hazards

May form combustible dust concentrations in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
limestone	1317-65-3	>= 30 - < 50
Azoxystrobin	131860-33-8	30
residues (petroleum), catalytic re- former fractionator, sulfonated, poly- mers with formaldehyde, sodium salts	68425-94-5	>= 10 - < 20
benzovindiflupyr	1072957-71-1	15
dioxosilane	14808-60-7	>= 0.1 - < 1
methanol	67-56-1	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

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

you when calling the emergency number, a poison control

center or physician, or going for treatment.

If inhaled : Take the victim into fresh air.

If breathing is irregular or stopped, administer artificial

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

Date of first issue: 06/17/2024 0.0 06/17/2024 S00051893203

respiration.

Keep patient warm and at rest.

Call a physician or poison control center immediately.

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

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

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

> for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

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

container or label.

Do NOT induce vomiting.

Most important symptoms and effects, both acute and

delayed

Nonspecific

No symptoms known or expected.

Harmful if swallowed.

May cause an allergic skin reaction. Causes serious eye irritation.

May cause damage to organs through prolonged or repeated

exposure.

There is no specific antidote available. Notes to physician

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - small fires

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

carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

Water spray

Unsuitable extinguishing

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

Specific hazards during fire

fighting

As the product contains combustible organic ingredients, fire

will produce dense black smoke containing hazardous

products of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health.

Further information Do not allow run-off from fire fighting to enter drains or water

courses.

Cool closed containers exposed to fire with water spray.

Special protective equipment:

for fire-fighters

Wear full protective clothing and self-contained breathing

apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.

Avoid dust formation.

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

6.2 Environmental precautions

Environmental precautions : 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, pick up with an electrically protected vacuum

cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

Do not create a powder cloud by using a brush or compressed

air.

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

Advice on safe handling : This material is capable of forming flammable dust clouds in

air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material.

Electrical equipment should be compatible with the

flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of

flammable solvents.

This material can become readily charged in most operations.

Avoid contact with skin and eyes.
When using do not eat, drink or smoke.

For personal protection see section 8.

Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-

ventilated place.

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
limestone	1317-65-3	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable dust	5 mg/m3	OSHA P0

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

		fraction)		
		TWA (Res-	5 mg/m3	NIOSH REL
		pirable)	(Calcium car- bonate)	
		TWA (total)	10 mg/m3 (Calcium car- bonate)	NIOSH REL
Azoxystrobin	131860-33-8	TWA	0.7 mg/m3	Syngenta
benzovindiflupyr	1072957-71- 1	TWA	1 mg/m3	Syngenta
dioxosilane	14808-60-7	TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respir- able)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
		TWA (Respirable dust)	0.05 mg/m3 (Silica)	NIOSH REL
		TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		STEL	250 ppm 325 mg/m3	OSHA P0
		TWA	200 ppm 260 mg/m3	OSHA P0

Biological occupational exposure limits

	•					
Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	
methanol	67-56-1	Methanol	Urine	End of	15 mg/l	ACGIH
				shift (As		BEI
				soon as		
				possible		
				after		
				exposure		
				ceases)		

Engineering measures

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

APPLICATIONS AND/OR ON-FARM APPLICATIONS

CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the

actual risks in use.

Maintain air concentrations below occupational exposure

standards.

Where necessary, seek additional occupational hygiene

advice.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection

Remarks : Wear protective gloves. The choice of an appropriate glove

does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Eye protection : Tightly fitting safety goggles

Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

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:

Dust impervious protective suit

Protective measures : The use of technical measures should always have priority

over the use of personal protective equipment.

When selecting personal protective equipment, seek

appropriate professional advice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Color : beige to dark brown

Odor : weak, uncharacteristic

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

Odor Threshold : No data available

pH : > 8.50 - 10.50 (68 - 77 °F / 20 - 25 °C)

Concentration: 1 %w/v

Melting point/freezing point : No data available

Initial boiling point and boiling

range

No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : May form combustible dust concentrations in air.

Burning number : $2 (68 \degree F / 20 \degree C)$

2 (212 °F / 100 °C)

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Density : 1 g/cm3

Bulk density : 0.56 g/cm3

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Minimum ignition temperature : 500 °C

Viscosity

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Date of last issue: -Version **Revision Date:** SDS Number:

S00051893203 Date of first issue: 06/17/2024 0.0 06/17/2024

38.0 mN/m, 14.000 %, 68 °F / 20 °C Surface tension

Minimum ignition energy 100 - 300 mJ

Particle characteristics

Particle size No data available

SECTION 10. STABILITY AND REACTIVITY

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

Possibility of hazardous reac-

No dangerous reaction known under conditions of normal use.

Conditions to avoid No decomposition if used as directed. None known.

Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inaestion Inhalation Skin contact Eye contact

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity LD50 (Rat, female): 1,049 mg/kg

LC50 (Rat, male and female): > 5.01 mg/l Acute inhalation toxicity

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Assessment: The substance or mixture has no acute dermal

toxicity

Components:

Azoxystrobin:

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

Acute inhalation toxicity LC50 (Rat, female): 0.698 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

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

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

Assessment: The substance or mixture has no acute dermal

toxicity

benzovindiflupyr:

Acute oral toxicity : LD50 (Rat, female): 55 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 0.56 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

methanol:

Acute oral toxicity : Assessment: The component/mixture is toxic after single in-

gestion.

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term

inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single con-

tact with skin.

Skin corrosion/irritation

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

Product:

Species : Rabbit

Result : No skin irritation

Components:

Azoxystrobin:

Species : Rabbit

Result : No skin irritation

benzovindiflupyr:

Species : Rabbit

Result : No skin irritation

methanol:

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Species : Rabbit

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

Result : Irritation to eyes, reversing within 21 days

Components:

Azoxystrobin:

Species : Rabbit

Result : No eye irritation

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

hyde, sodium salts:

Result : Irritation to eyes, reversing within 21 days

Method : in vitro eye irritation test

benzovindiflupyr:

Species : Rabbit

Result : No eye irritation

methanol:

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified due to lack of data.

Product:

Species : Guinea pig

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

Components:

Azoxystrobin:

Species : Guinea pig

Result : Does not cause skin sensitization.

benzovindiflupyr:

Test Type : mouse lymphoma cells

Species : Mouse

Result : Does not cause skin sensitization.

methanol:

Species : Guinea pig

Result : Does not cause skin sensitization.

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

Germ cell mutagenicity

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

Product:

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

Components:

Azoxystrobin:

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

benzovindiflupyr:

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

methanol:

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

Carcinogenicity

Not classified due to lack of data.

Components:

Azoxystrobin:

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

benzovindiflupyr:

Carcinogenicity - Assess-

ment

Weight of evidence does not support classification as a carcinogen, This substance has been reported to cause tumors in certain animal species., These is no evidence that these find-

ings are relevant to humans.

dioxosilane:

Carcinogenicity - Assess-

ment

Weight of evidence does not support classification as a car-

cinogen

IARC has concluded that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources and in experimental animals from quartz and cristobalite (Group 1). It was noted however, that carcinogenicity was not detected in all industrial circumstances and may be dependent on inherent characteristics of the crystalline silica or external factors

affecting its biological activity.

methanol:

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

ment

IARC Group 1: Carcinogenic to humans

dioxosilane 14808-60-7

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

SDS Number: Version Revision Date: Date of last issue: -

Date of first issue: 06/17/2024 0.0 06/17/2024 S00051893203

(Silica dust, crystalline)

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

on OSHA's list of regulated carcinogens.

NTP Known to be human carcinogen

> dioxosilane 14808-60-7

(Silica, Crystalline (Respirable Size))

Reproductive toxicity

Not classified due to lack of data.

Components:

Azoxystrobin:

Reproductive toxicity - As-

No toxicity to reproduction, No effects on or via lactation

benzovindiflupyr:

Reproductive toxicity - As-

sessment

sessment

No toxicity to reproduction

methanol:

Reproductive toxicity - As-

sessment

: No toxicity to reproduction

STOT-single exposure

Not classified due to lack of data.

Components:

benzovindiflupyr:

The substance or mixture is not classified as specific target Assessment

organ toxicant, single exposure.

methanol:

Target Organs Eyes, Central nervous system

Assessment The substance or mixture is classified as specific target organ

toxicant, single exposure, category 1.

STOT-repeated exposure

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

Components:

Azoxystrobin:

Target Organs Bile duct

Assessment The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

benzovindiflupyr:

Assessment The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

dioxosilane:

Routes of exposure : Inhalation Target Organs : Lungs

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

toxicant, repeated exposure, category 1.

methanol:

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

organ toxicant, repeated exposure.

Aspiration toxicity

Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.032 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.22 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)):

0.97 mg/l

Exposure time: 96 h

EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.3

mg/l

End point: Growth rate Exposure time: 96 h

Components:

Azoxystrobin:

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

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h

EC50 (Americamysis): 0.055 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)):

1.109 mg/l

Exposure time: 72 h

EC10 (Raphidocelis subcapitata (freshwater green alga)):

0.0303 mg/l

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

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

Toxicity to fish (Chronic tox-

icity)

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

Exposure time: 28 d

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

Exposure time: 33 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

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

Exposure time: 21 d

NOEC (Americamysis): 0.00954 mg/l

Exposure time: 28 d

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

Exposure time: 6 h

benzovindiflupyr:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0091 mg/l

Exposure time: 96 h

LC50 (Cyprinus carpio (Carp)): 0.0035 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Americamysis): 0.056 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

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

0.89 mg/l

Exposure time: 96 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):

0.42 mg/l

End point: Growth rate Exposure time: 96 h

ErC50 (Skeletonema costatum (marine diatom)): 0.55 mg/l

Exposure time: 72 h

NOEC (Skeletonema costatum (marine diatom)): 0.4 mg/l

End point: Growth rate Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 0.00095

mg/l

Exposure time: 32 d

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

Test Type: Early-life Stage

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Americamysis): 0.0074 mg/l

Exposure time: 28 d

EC10 (Daphnia magna (Water flea)): 0.012 mg/l

Exposure time: 21 d

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

Exposure time: 3 h

Persistence and degradability

Components:

Azoxystrobin:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 224 d

Remarks: Persistent in water.

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

hyde, sodium salts:

Biodegradability : Result: Not readily biodegradable.

benzovindiflupyr:

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

Components:

Azoxystrobin:

Bioaccumulation : Remarks: Does not bioaccumulate.

benzovindiflupyr:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 4.3 (77 °F / 25 °C)

Mobility in soil

Components:

Azoxystrobin:

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.

benzovindiflupyr:

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

Distribution among environ-

mental compartments

Remarks: Slightly mobile in soils

Other adverse effects

Components:

Azoxystrobin:

Results of PBT and vPvB

assessment

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

Substance is not very persistent and very bioaccumulative

(vPvB).

benzovindiflupyr:

Results of PBT and vPvB

assessment

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

Substance is not very persistent and very bioaccumulative

(vPvB).

methanol:

Results of PBT and vPvB

assessment

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

Substance is not very persistent and very bioaccumulative

(vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

chemical or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or

incineration.

If recycling is not practicable, dispose of in compliance with

local regulations.

This product will not be classified as a RCRA characteristic

hazardous waste when discarded.

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

International Regulations

UNRTDG

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(AZOXYSTROBIN, BENZOVINDIFLUPYR)

Class : 9
Packing group : III
Labels : 9

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

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 3077

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

(AZOXYSTROBIN, BENZOVINDIFLUPYR)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 956

aircraft)

Packing instruction (passen-

ger aircraft)

ger ancian)

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 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

956

(AZOXYSTROBIN, BENZOVINDIFLUPYR)

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.

Domestic regulation

49 CFR

Not regulated as a dangerous good

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

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

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

SECTION 15. REGULATORY INFORMATION

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

Harmful if swallowed.

Harmful if absorbed through skin.

Causes moderate eye irritation.

Avoid contact with skin, eyes or clothing.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove and wash contaminated clothing before re-use.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards : Combustible dust

Acute toxicity (any route of exposure)
Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

Serious eye damage or eye irritation

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

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

California Prop. 65

WARNING: This product can expose you to chemicals including dioxosilane, which is/are known to the State of California to cause cancer, and

methanol, toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Regulated Carcinogens

dioxosilane 14808-60-7

SECTION 16. OTHER INFORMATION

Further information

according to the OSHA Hazard Communication Standard

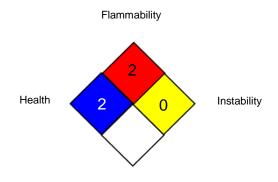


ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

NFPA 704:



Special hazard

HMIS® IV:



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

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

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

values)

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

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

Syngenta : Syngenta Occupational Exposure Limits

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA P0 / TWA : 8-hour time weighted average OSHA P0 / STEL : Short-term exposure limit OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-3 / TWA : 8-hour time weighted average Syngenta / TWA : Time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in

according to the OSHA Hazard Communication Standard



ELATUS FUNGICIDE

Version Revision Date: SDS Number: Date of last issue: -

0.0 06/17/2024 S00051893203 Date of first issue: 06/17/2024

Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 06/17/2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8