

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

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

1.1 Product identifier

Product name TREMISIA™ fungicide

Other means of identification

Product code 50002363

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

Use of the Sub-
stance/Mixture : Fungicide

Recommended restrictions
on use : Use as recommended by the label.

1.3 Details of the supplier of the safety data sheet

Supplier Address

FMC Chemicals (Pty) Ltd
Company Registration No.: 1988/001451/07
West End Office Park, Building C
Cnr. West Ave & Hall Street
Centurion
0014
South Africa

E-mail address: SDS-Info@fmc.com .

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
South Africa: 080-001-4676 (CHEMTREC)

Medical emergency:
For any emergency or poisoning contact: Griffon Poison Infor-
mation Centre (24 hrs) - +27-(0)-82-446-8946

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Acute toxicity, Category 4 H332: Harmful if inhaled.

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Short-term (acute) aquatic hazard, Category 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 2

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:
P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

Disposal:
P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

Hazardous components which must be listed on the label:

Flutriafol

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, Fluindapyr. May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SAFETY DATA SHEET



TREMISIA™ fungicide

Version 1.0 Revision Date: 09.01.2025 SDS Number: 50002363 Date of last issue: -
Date of first issue: 09.01.2025

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--|---|---|--------------------------|
| Fluindapyr | 1383809-87-7 | Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | 20.9 |
| Flutriafol | 76674-21-0 | Acute Tox. 4; H302 Aquatic Chronic 2; H411 | 20.9 |
| Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt | 68186-36-7 | Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 | >= 1 - < 2.5 |
| Sodium alkylnaphthalenesulfonate formaldehyde condensate | 68425-94-5 | Eye Irrit. 2; H319 Aquatic Chronic 3; H412 | >= 1 - < 2.5 |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 613-088-00-6 | Acute Tox. 2; H330 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | >= 0.0025 - < 0.025 |

For explanation of abbreviations see section 16.

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|----------------------------|---|
| General advice | : Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection and use the recommended protective clothing Avoid inhalation, ingestion and contact with skin and eyes. If potential for exposure exists refer to Section 8 for specific personal protective equipment. |
| If inhaled | : Remove to fresh air. If unconscious, place in recovery position and seek medical advice. If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance. |
| In case of skin contact | : If on clothes, remove clothes. If on skin, rinse well with water. Wash off with soap and plenty of water. Get medical attention immediately if irritation develops and persists. |
| In case of eye contact | : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Let the exposed person rinse mouth and let him/her drink several glasses of water, but do not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again. Get medical attention immediately. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|----------|--|
| Symptoms | : Contains a triazole. Symptoms may include nausea, vomiting, diarrhea, visual changes, hallucinations, rash, itching, and alopecia. |
| Risks | : Harmful if swallowed or if inhaled. |

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
Immediate medical attention is required in case of ingestion.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet
Do not spread spilled material with high-pressure water streams.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.
Carbon oxides
Sulphur oxides
Nitrogen oxides (NO_x)
Fluorine compounds
Hydrogen cyanide
Hydrogen fluoride
Fluorinated compounds

5.3 Advice for firefighters

Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.
Use a water spray to cool fully closed containers.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.
Use personal protective equipment.
If it can be safely done, stop the leak.
Do not touch or walk through the spilled material.

TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Never return spills in original containers for re-use.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
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 : Never return spills in original containers for re-use.
Collect as much of the spill as possible with a suitable absorbent material.
Pick up and transfer to properly labelled containers.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/dust.
For personal protection see section 8.
Avoid formation of respirable particles.
Dispose of rinse water in accordance with local and national regulations.
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Avoid contact with skin, eyes and clothing. Do not inhale aerosol. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilat-

SAFETY DATA SHEET



TREMISIA™ fungicide

Version 1.0 Revision Date: 09.01.2025 SDS Number: 50002363 Date of last issue: -
Date of first issue: 09.01.2025

ed and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

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

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|------------------------------|-----------|-----------------|----------------------------|-------------|
| 1,2-benzisothiazol-3(2H)-one | Workers | Inhalation | Long-term systemic effects | 6.81 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 0.966 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 1.2 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 0.345 mg/kg |

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

| Substance name | Environmental Compartment | Value |
|------------------------------|---------------------------|---------------|
| 1,2-benzisothiazol-3(2H)-one | Fresh water | 0.00403 mg/l |
| | Marine water | 0.000403 mg/l |
| | Sewage treatment plant | 1.03 mg/l |
| | Fresh water sediment | 0.0499 mg/l |
| | Marine sediment | 0.00499 mg/l |

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

with the producers of the protective gloves.

- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
- Protective measures : Plan first aid action before beginning work with this product.
Always have on hand a first-aid kit, together with proper instructions.
Wear suitable protective equipment.
When using do not eat, drink or smoke.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : suspension
Colour : light brown
Odour : Faint odour
Odour Threshold : No data available
pH : 6.42 (22.1 °C)
(1% solution in water)
Melting point/ range : not determined
Boiling point/boiling range : not determined
Flash point : > 100 °C
Evaporation rate : No data available
Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : No data available
Vapour pressure : Not available for this mixture.
Relative vapour density : No data available
Relative density :
Density : 1.1470 g/cm³ (22.7 °C)
Bulk density : No data available
Solubility(ies)
Water solubility : dispersible
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : Not applicable
Auto-ignition temperature : No data available

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

| | | |
|---------------------------|---|--|
| Decomposition temperature | : | No data available |
| Viscosity | : | |
| Viscosity, dynamic | : | 365.0 mPa.s (21.5 °C) |
| | : | 295.8 mPa.s (41.5 °C) |
| Viscosity, kinematic | : | 365 mm ² /s (21.5 °C) |
| | : | 295.8 mm ² /s (41.5 °C) |
| Explosive properties | : | |
| | : | Not explosive |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |

9.2 Other information

| | | |
|----------------------------|---|-------------------|
| Molecular weight | : | Not applicable |
| Particle size | : | Not applicable |
| Particle Size Distribution | : | Not applicable |
| Self-ignition | : | No data available |

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

| | | |
|---------------------|---|---|
| Hazardous reactions | : | No decomposition if stored and applied as directed. |
|---------------------|---|---|

10.4 Conditions to avoid

| | | |
|---------------------|---|--|
| Conditions to avoid | : | Avoid extreme temperatures Avoid formation of aerosol. Protect from frost, heat and sunlight. Heating of the mixture may evolve harmful and irritant vapours. |
|---------------------|---|--|

10.5 Incompatible materials

| | | |
|--------------------|---|--|
| Materials to avoid | : | Avoid strong acids, bases, and oxidizers |
|--------------------|---|--|

10.6 Hazardous decomposition products

Stable under recommended storage conditions.

TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Harmful if swallowed or if inhaled.

Product:

| | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50 (Rat, female): 550 mg/kg Method: OECD Test Guideline 425 |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): > 2.12 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: hypoactivity, Breathing difficulties Remarks: no mortality |
| Acute dermal toxicity | : | LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402 Symptoms: Irritation Assessment: The substance or mixture has no acute dermal toxicity Remarks: no mortality |

Components:**Fluindapyr:**

| | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes Assessment: The component/mixture is minimally toxic after single ingestion. Remarks: no mortality |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): > 5.19 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: ataxia, Breathing difficulties GLP: yes Remarks: no mortality |
| Acute dermal toxicity | : | LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 Symptoms: Irritation GLP: yes Assessment: The component/mixture is minimally toxic after single contact with skin. Remarks: no mortality |

Flutriafol:

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Acute oral toxicity : LD50 (Rat, female): 300 - 2,000 mg/kg
Method: OECD Test Guideline 423
Target Organs: Liver, Gastrointestinal tract
Symptoms: Fatality
GLP: yes
Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 (Rat, female): 1,030 mg/kg
Method: OECD Test Guideline 425
Target Organs: Liver, Gastrointestinal tract
Symptoms: Breathing difficulties

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Symptoms: Fatality, ataxia, Breathing difficulties
GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: no mortality

LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
Symptoms: Irritation
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: no mortality

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Acute oral toxicity : Assessment: Toxic effects cannot be excluded

Sodium alkyl naphthalenesulfonate formaldehyde condensate:

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

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

Acute oral toxicity : LD50 (Rat, male and female): 490 mg/kg
Method: OECD Test Guideline 401

Acute toxicity estimate: 450 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
Remarks: Based on EU Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)

Acute inhalation toxicity : Acute toxicity estimate: 0.21 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC)

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

No. 1272/2008

Remarks: Based on EU Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Minimal effects that do not meet the threshold for classification.

Components:

Fluindapyr:

Species : Rabbit
Assessment : Not classified as irritant
Method : OECD Test Guideline 404
GLP : yes

Assessment : Not classified as irritant
Method : EPISKIN Human Skin Model Test

Flutriafol:

Species : Rabbit
Assessment : Not classified as irritant
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

Species : Rabbit
Result : No skin irritation

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Result : Skin irritation

Sodium alkylnaphthalenesulfonate formaldehyde condensate:

Remarks : No data available

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

Species : Rabbit
Exposure time : 72 h
Method : OECD Test Guideline 404

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

Components:

Fluindapyr:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes

Method : Bovine cornea (BCOP)
Result : not corrosive
GLP : yes

Flutriafol:

Species : Rabbit
Assessment : Not classified as irritant
Method : OECD Test Guideline 405
Result : slight irritation
GLP : yes

Species : Rabbit
Assessment : Not classified as irritant
Method : OECD Test Guideline 405
Result : Slight or no eye irritation
GLP : yes

Species : Rabbit
Result : slight irritation

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Result : Irreversible effects on the eye

Sodium alkyl naphthalenesulfonate formaldehyde condensate:

Result : Eye irritation

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

Species : Bovine cornea
Method : OECD Test Guideline 437
Result : No eye irritation

Species : Rabbit

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

| | | |
|--------|---|---------------------------------|
| Method | : | EPA OPP 81-4 |
| Result | : | Irreversible effects on the eye |

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

| | | |
|-----------------|---|--|
| Test Type | : | Local lymph node assay (LLNA) |
| Exposure routes | : | Skin contact |
| Species | : | Mouse |
| Method | : | OECD Test Guideline 429 |
| Result | : | Did not cause sensitisation on laboratory animals. |

Components:

Fluindapyr:

| | | |
|-----------------|---|--|
| Test Type | : | Local lymph node assay (LLNA) |
| Exposure routes | : | Skin contact |
| Method | : | OECD Test Guideline 429 |
| Result | : | May cause sensitisation by skin contact. |
| GLP | : | yes |

Flutriafol:

| | | |
|-----------------|---|--|
| Test Type | : | Buehler Test |
| Exposure routes | : | Skin contact |
| Species | : | Guinea pig |
| Assessment | : | Did not cause sensitisation on laboratory animals. |
| Method | : | OECD Test Guideline 406 |
| GLP | : | yes |

| | | |
|---------|---|------------------------|
| Species | : | Guinea pig |
| Result | : | Not a skin sensitizer. |

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

| | | |
|-----------|---|--|
| Test Type | : | Maximisation Test |
| Species | : | Guinea pig |
| Method | : | OECD Test Guideline 406 |
| Result | : | May cause sensitisation by skin contact. |

| | | |
|---------|---|--|
| Species | : | Guinea pig |
| Method | : | FIFRA 81.06 |
| Result | : | May cause sensitisation by skin contact. |

TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Germ cell mutagenicity

Not classified based on available information.

Components:**Fluindapyr:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Test Type: gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 490
Result: negative

Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian bone marrow sister chromatid exchange
Species: Mouse
Result: negative

Test Type: Micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Result: negative

Flutriafol:

Genotoxicity in vivo : Test Type: dominant lethal test
Method: OECD Test Guideline 478
Result: negative

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

Genotoxicity in vitro : Test Type: gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Cell type: Liver cells
Application Route: Ingestion
Exposure time: 4 h
Method: OECD Test Guideline 486
Result: negative

Test Type: Micronucleus test
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Not classified based on available information.

Components:

Fluindapyr:

Species : Mouse
Application Route : Oral
Exposure time : 18 month(s)
Method : OECD Test Guideline 451
Result : Not a carcinogenic hazard

Species : Rat
Application Route : Oral
Exposure time : 2 Years
Method : OECD Test Guideline 453
Result : Not a carcinogenic hazard
GLP : yes

Flutriafol:

Species : Mouse
Exposure time : 2 Years
NOAEL : 1.2 mg/kg bw/day
Result : negative

Species : Rat
Exposure time : 2 Years
NOAEL : 1 mg/kg bw/day

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Result : negative

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Not classified based on available information.

Components:

Fluindapyr:

Effects on fertility : Test Type: Two-generation study
General Toxicity - Parent: NOEL: ca. 100 ppm
Fertility: NOEL: ca. 400 ppm
Early Embryonic Development: NOEL: ca. 400 ppm
Method: OECD Test Guideline 416
GLP: yes

Flutriafol:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Method: OECD Test Guideline 416
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Method: OECD Test Guideline 414
Result: negative

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

Effects on fertility : Species: Rat, male
Application Route: Ingestion
General Toxicity - Parent: NOEL: 18.5 mg/kg body weight
General Toxicity F1: NOEL: 48 mg/kg body weight
Fertility: NOEL: 112 mg/kg bw/day
Symptoms: No effects on reproduction parameters
Method: OPPTS 870.3800
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

STOT - single exposure

Not classified based on available information.

Components:

Flutriafol:

Remarks : No significant adverse effects were reported

STOT - repeated exposure

Not classified based on available information.

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Components:

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

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Fluindapyr:

Species : Rat
NOAEL : 1,000 mg/kg
Application Route : Dermal
Exposure time : 21 d
Number of exposures : 5 d/w for 6 hr
Dose : 0,100,300,1000 mg/kg bw/d
Method : OECD Test Guideline 410
GLP : yes
Symptoms : Skin irritation

Flutriafol:

Species : Rat
NOAEL : 13.3 mg/kg bw/day
Application Route : Oral - feed
Exposure time : 90 d
Symptoms : anemia, Liver effects

Species : Dog
NOAEL : 5 mg/kg bw/day
Application Route : Oral
Exposure time : 90 d
Symptoms : blood effects, Liver effects

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

Species : Rat, male and female
NOAEL : 15 mg/kg
Application Route : Ingestion
Exposure time : 28 d
Method : OECD Test Guideline 407
Symptoms : Irritation

Species : Rat, male and female
NOAEL : 69 mg/kg
Application Route : Ingestion
Exposure time : 90 d
Symptoms : Irritation, Reduced body weight

Aspiration toxicity

Not classified based on available information.

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Components:

Flutriafol:

The substance does not have properties associated with aspiration hazard potential.

Neurological effects

Components:

Fluindapyr:

Remarks : <** Phrase language not available: [6N] CUST - FMC_00000000094 **>

Flutriafol:

No neurotoxicity observed in animal studies

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

| | |
|---|--|
| Toxicity to fish | : LC50 (Cyprinus carpio (Carp)): 0.91 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 3.8 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 NOEC (Daphnia magna (Water flea)): 2.5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : EyC50 (Raphidocelis subcapitata (freshwater green alga)): 9.6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 9.9 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| Toxicity to soil dwelling organisms | : LC50: > 1,000 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) |

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|----------------|------------------------------|-------------------------|--|
| Version 1.0 | Revision Date: 09.01.2025 | SDS Number: 50002363 | Date of last issue: - Date of first issue: 09.01.2025 |
|----------------|------------------------------|-------------------------|--|

Method: OECD Test Guideline 207

Method: OECD Test Guideline 216

Remarks: No significant adverse effect on nitrogen mineralization.

Method: OECD Test Guideline 217

Remarks: No significant adverse effect on carbon mineralization.

Toxicity to terrestrial organisms : LD50: 946 mg/kg
Exposure time: 14 d
End point: Acute oral toxicity
Species: *Colinus virginianus* (Bobwhite quail)
Method: OECD Test Guideline 223

LD50: 240 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity
Species: *Apis mellifera* (bees)
Method: OECD Test Guideline 214

LD50: 24 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Species: *Apis mellifera* (bees)
Method: OECD Test Guideline 213
Remarks: Active ingredient

Components:

Fluindapyr:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0.121 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

LC50 (*Oryzias latipes* (Japanese medaka)): > 1.8 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

LC50 (*Danio rerio* (zebra fish)): 0.424 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

LC50 (*Cyprinodon variegatus* (sheepshead minnow)): 0.43 mg/l
Exposure time: 96 h

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Test Type: static test
Method: OPPTS 850.1075
GLP: yes

LC50 (Cyprinus carpio (Carp)): 0.11 mg/l
Exposure time: 96 h
Test Type: Static renewal test
Method: OECD Test Guideline 203
GLP: yes

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.286 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

LC50 (Pimephales promelas (fathead minnow)): 0.19 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.141 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

LC50 (Americamysis bahia (mysid shrimp)): 0.33 mg/l
Exposure time: 96 h
Test Type: static test
Method: OCSP 850.1035
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 4.83 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

NOEC (Lemna gibba (duckweed)): 2 mg/l
Exposure time: 7 d
Method: OECD Test Guideline 221
GLP: yes

EC50 (Skeletonema costatum (Diatom)): > 2 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0.031 mg/l
Exposure time: 32 d
Species: Pimephales promelas (fathead minnow)

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

| | | |
|--|---|---|
| | | Test Type: Early-life Stage Method: OECD Test Guideline 210 GLP: yes |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0.062 mg/l Exposure time: 28 d Species: Americamysis bahia (mysid shrimp) Test Type: flow-through test Method: OPPTS 850.1350 GLP: yes NOEC: 0.12 mg/l End point: reproduction Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 GLP: yes NOEC: 68 mg/l Exposure time: 42 d Species: Hyalella azteca (Amphipod) Test Type: Static renewal test GLP: yes |
| M-Factor (Chronic aquatic toxicity) | : | 1 |
| Toxicity to soil dwelling organisms | : | LC50: > 1,000 mg/kg Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 216 Remarks: No significant adverse effect on nitrogen mineralization. Method: OECD Test Guideline 217 Remarks: No significant adverse effect on carbon mineralization. |
| Toxicity to terrestrial organisms | : | LD50: 1,612 mg/kg Species: Colinus virginianus (Bobwhite quail) Method: OECD Test Guideline 205 GLP: yes LD50: 2,250 mg/kg Species: Colinus virginianus (Bobwhite quail) Method: OPPTS 850.2100 GLP: yes LD50: > 300 µg/bee Exposure time: 48 h Species: Apis mellifera (bees) Method: OECD Test Guideline 214 |

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

GLP:yes
Remarks: Contact

LD50: > 32.8 µg/bee
Exposure time: 48 h
Species: Apis mellifera (bees)
Method: OECD Test Guideline 213
GLP:yes
Remarks: Oral

NOEC: 679 mg/kg
End point: Reproduction Test
Species: Anas platyrhynchos (Mallard duck)
Method: OECD Test Guideline 206
GLP:yes

NOEC: 174 mg/kg
End point: Reproduction Test
Species: Colinus virginianus (Bobwhite quail)
Method: OECD Test Guideline 206
GLP:yes

Flutriafol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 33 mg/l
Exposure time: 96 h

LC50 (Danio rerio (zebra fish)): 22.97 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 67 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

EC50 (Daphnia magna (Water flea)): 42.21 mg/l
End point: Immobilization
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : IC50 (Selenastrum capricornutum (green algae)): 12 mg/l
Exposure time: 96 h

IC50 (Scenedesmus subspicatus): 1.9 mg/l
Exposure time: 72 h

EbC50 (Lemna gibba (duckweed)): 0.65 mg/l
Exposure time: 7 d

EyC50 (Pseudokirchneriella subcapitata (algae)): 3.69 mg/l
Exposure time: 72 h

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Method: OECD Test Guideline 201
GLP: yes

Toxicity to fish (Chronic toxicity) : NOEC: 4.8 mg/l
Exposure time: 28 d
Species: Lepomis macrochirus (Bluegill sunfish)

NOEC: 20 mg/l
Exposure time: 14 d
Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 204

NOEC: 0.1 mg/l
End point: Growth
Species: Pimephales promelas (fathead minnow)
Test Type: Early Life-Stage
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.31 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

NOEC: 0.45 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Toxicity to soil dwelling organisms : NOEC:
0.01 mg/cm²
Exposure time: 180 d
Species: Eisenia fetida (earthworms)

LC50: > 1,000 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50: > 144 µg/bee
End point: Acute oral toxicity
Species: Apis mellifera (bees)
Method: OECD Test Guideline 213
GLP:yes

LD50: > 150 µg/bee
End point: Acute contact toxicity
Species: Apis mellifera (bees)
Method: OECD Test Guideline 214
GLP:yes

LD50: > 100 µg/bee
End point: Acute contact toxicity
Species: Apis mellifera (bees)
Method: OECD Test Guideline 214

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|----------------|------------------------------|-------------------------|--|
| Version 1.0 | Revision Date: 09.01.2025 | SDS Number: 50002363 | Date of last issue: - Date of first issue: 09.01.2025 |
|----------------|------------------------------|-------------------------|--|

LD50: 872.53 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Species: Apis mellifera (bees)
Method: OECD Test Guideline 213

LD50: > 5,000 mg/kg
Species: Anas platyrhynchos (Mallard duck)

LD50: ca. 385 mg/kg
Species: Coturnix japonica (Japanese quail)
Method: US EPA Test Guideline OPPTS 850.2100

LD50: 4260 ppm
Species: Coturnix japonica (Japanese quail)
Method: OPPTS 850.2200

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Sodium alkyl naphthalenesulfonate formaldehyde condensate:

Toxicity to fish : LC50 (Zebra fish): > 10 - 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

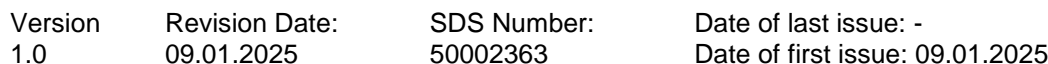
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

EC10 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chron- : EC10: > 10 - 100 mg/l
Exposure time: 21 d

TREMISIA™ fungicide



| | |
|--------------|---|
| ic toxicity) | Species: <i>Daphnia magna</i> (Water flea) |
| | Method: OECD Test Guideline 211 |
| | Remarks: Based on data from similar materials |

Toxicity to fish : LC50 (*Cyprinodon variegatus* (sheepshead minnow)): 16.7 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 2.15 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.9 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.070 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.04
mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): 24 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

EC50 (activated sludge): 12.8 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

M-Factor (Chronic aquatic toxicity) : 1

Product:

| | |
|------------------|--|
| Biodegradability | : Remarks: No data is available on the product itself. Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants. |
|------------------|--|

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Components:

Fluindapyr:

Biodegradability : Result: Not readily biodegradable.

Flutriafol:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Remarks: Does not readily hydrolyze

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 80 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
Remarks: Based on data from similar materials

Sodium alkyl naphthalenesulfonate formaldehyde condensate:

Biodegradability : Result: Not readily biodegradable.
Remarks: Based on data from similar materials

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

Biodegradability : Result: rapidly biodegradable
Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data is available on the product itself.

Components:

Fluindapyr:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): < 500
Method: OECD Test Guideline 305
GLP: yes
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: > 3

Flutriafol:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 7
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2.29

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

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

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 56 d
Bioconcentration factor (BCF): 6.62
Method: OECD Test Guideline 305
Remarks: Substance is not persistent, bioaccumulative, and toxic (PBT).

Partition coefficient: n-octanol/water : log Pow: 0.7 (20 °C)
pH: 7

log Pow: 0.99 (20 °C)
pH: 5

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: No data is available on the product itself.

Components:

Fluindapyr:

Distribution among environmental compartments : Remarks: Low mobility in soil

Flutriafol:

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Remarks: Very persistent in soil.

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

Distribution among environmental compartments : Koc: 9.33 ml/g, log Koc: 0.97
Method: OECD Test Guideline 121
Remarks: Highly mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Components:

Flutriafol:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Do not re-use empty containers.
Packaging that is not properly emptied must be disposed of as the unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

UNRTDG : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

UNRTDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Fluindapyr, Flutriafol)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

IATA : N.O.S.
(Fluindapyr, Flutriafol)
: Environmentally hazardous substance, liquid, n.o.s.
(Fluindapyr, Flutriafol)

14.3 Transport hazard class(es)

| | Class | Subsidiary risks |
|---------------|-------|------------------|
| UNRTDG | : 9 | |
| IMDG | : 9 | |
| IATA | : 9 | |

14.4 Packing group

UNRTDG
Packing group : III
Labels : 9

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

IATA (Cargo)
Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

IATA (Passenger)
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards

UNRTDG
Environmentally hazardous : yes

IMDG
Marine pollutant : yes

IATA (Passenger)
Environmentally hazardous : yes

IATA (Cargo)
Environmentally hazardous : yes

14.6 Special precautions for user

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

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

The components of this product are reported in the following inventories:

| | |
|-------|--|
| TCSI | : Not in compliance with the inventory |
| TSCA | : Product contains substance(s) not listed on TSCA inventory. |
| AIIC | : Not in compliance with the inventory |
| DSL | : This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product. |
| ENCS | : Not in compliance with the inventory |
| ISHL | : Not in compliance with the inventory |
| KECI | : Not in compliance with the inventory |
| PICCS | : Not in compliance with the inventory |
| IECSC | : Not in compliance with the inventory |
| NZIoC | : Not in compliance with the inventory |
| TECI | : Not in compliance with the inventory |

15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

SECTION 16: Other information

Full text of H-Statements

| | |
|------|--|
| H302 | : Harmful if swallowed. |
| H315 | : Causes skin irritation. |
| H317 | : May cause an allergic skin reaction. |
| H318 | : Causes serious eye damage. |
| H319 | : Causes serious eye irritation. |
| H330 | : Fatal if inhaled. |

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

| | |
|-----------------|------|
| Acute Tox. 4 | H302 |
| Acute Tox. 4 | H332 |
| Aquatic Acute 1 | H400 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| Based on product data or assessment |
| Based on product data or assessment |

SAFETY DATA SHEET



TREMISIA™ fungicide

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 09.01.2025 | 50002363 | Date of first issue: 09.01.2025 |

Aquatic Chronic 2

H411

Calculation method

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