

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

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### SECTION 1. IDENTIFICATION

#### Product identifier

**Product name** AMBLISA®

#### Other means of identification

**Product code** 50002631

#### Recommended use of the chemical and restrictions on use

**Recommended use** Can be used as fungicide only.

**Restrictions on use** Use as recommended by the label.

#### Details of the supplier of the safety data sheet

**Manufacturer** FMC Corporation  
2929 Walnut Street  
Philadelphia PA 19104  
USA  
(215) 299-6000  
SDS-Info@fmc.com

#### Emergency telephone

For leak, fire, spill or accident emergencies, call:  
1 800 / 424-9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)

Medical emergency:  
U.S.A. & Canada: +1 800 / 331-3148  
All other countries: +1 651 / 632-6793 (Collect)

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### SECTION 2. HAZARDS IDENTIFICATION

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

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure

#### **GHS label elements**

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version 1.1      Revision Date: 06/20/2024      SDS Number: 50002631      Date of last issue: -  
Date of first issue: 05/13/2022

Hazard pictograms

:



Signal Word

:

WARNING

Hazard Statements

:

H302 + H332 Harmful if swallowed or if inhaled.  
H335 May cause respiratory irritation.

Precautionary Statements

:

### Prevention:

P261 Avoid breathing mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.

### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor 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.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

:

Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Flutriafol	76674-21-0	$\geq 20 - < 30$
Fluindapyr	1383809-87-7	$\geq 10 - < 20$
propane-1,2-diol	57-55-6	$\geq 5 - < 10$
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt	68186-36-7	$\geq 1 - < 5$
Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts	68425-94-5	$\geq 1 - < 5$

Actual concentration is withheld as a trade secret

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

### SECTION 4. FIRST AID MEASURES

- |   |   |
|---|---|
| General advice  | : Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.  |
| If inhaled  | : If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.   |
| In case of skin contact                                     | : Get medical attention if irritation develops and persists.<br>Wash clothing before reuse.<br>Wash off immediately with soap and plenty of water.<br>Take off all contaminated clothing immediately. |
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                 |
| If swallowed  | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.                       |
| Most important symptoms and effects, both acute and delayed | : Harmful if swallowed or if inhaled.<br>May cause respiratory irritation.  |
| Protection of first-aiders                                  | : Avoid inhalation, ingestion and contact with skin and eyes.   |
| Notes to physician  | : Treat symptomatically.  |

### SECTION 5. FIRE-FIGHTING MEASURES

- |                                       |  |
|---------------------------------------|--|
| Suitable extinguishing media          | : Dry chemical, CO <sub>2</sub> , water spray or regular foam.   |
| Unsuitable extinguishing media        | : Do not spread spilled material with high-pressure water streams.   |
| Specific hazards during fire fighting | : Do not allow run-off from fire fighting to enter drains or water courses.  |
| Hazardous combustion products         | : Thermal decomposition can lead to release of irritating gases and vapors.<br>Nitrogen oxides (NO <sub>x</sub> )<br>Carbon oxides<br>Fluorinated compounds<br>Sulfur oxides<br>Fluorine compounds |
| Specific extinguishing method         | : Remove undamaged containers from fire area if it is safe to do   |

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

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| ods  | so.<br>Use a water spray to cool fully closed containers.  |
| Further information                            | : Standard procedure for chemical fires.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br><br>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : Firefighters should wear protective clothing and self-contained breathing apparatus.   |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Evacuate personnel to safe areas.<br>Use personal protective equipment.<br>If it can be safely done, stop the leak.<br>Do not touch or walk through the spilled material.   |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities.                               |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.<br>Never return spills in original containers for re-use. |

### SECTION 7. HANDLING AND STORAGE

- |   |  |
|---|--|
| Advice on protection against fire and explosion | : Normal measures for preventive fire protection.  |
| Advice on safe handling                         | : Avoid formation of aerosol.<br>Do not breathe vapors/dust.<br>Avoid exposure - obtain special instructions before use.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage                     | : Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Observe label precautions.   |

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version 1.1      Revision Date: 06/20/2024      SDS Number: 50002631      Date of last issue: -  
Date of first issue: 05/13/2022

Electrical installations / working materials must comply with the technological safety standards.

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

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propane-1,2-diol	57-55-6	TWA	10 mg/m <sup>3</sup>	US WEEL

#### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection  
Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Plan first aid action before beginning work with this product.

Hygiene measures : General industrial hygiene practice.  
Avoid contact with skin, eyes and clothing.  
Do not inhale aerosol.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Form : liquid

Color : off-white

Odor : No data available

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version 1.1	Revision Date: 06/20/2024	SDS Number: 50002631	Date of last issue: - Date of first issue: 05/13/2022
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Odor Threshold	: No data available
pH	: 6.69
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 212 °F / 100 °C
Self-ignition	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: No data available
Density	: 1.147 g/cm3
Solubility(ies) Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reac-	: No decomposition if stored and applied as directed.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

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Conditions to avoid : Avoid extreme temperatures.  
Avoid formation of aerosol.

Incompatible materials : Avoid strong acids, bases, and oxidizers.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed or if inhaled.

#### Product:

Acute oral toxicity : LD50 (Rat): 1,098 mg/kg  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 2.07 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### Components:

##### Flutriafol:

Acute oral toxicity : LD50 (Rat, male): 1,140 mg/kg  
LD50 (Rat, female): 1,480 mg/kg  
LD50 (Rat, female): 300 - 2,000 mg/kg  
Method: OECD Test Guideline 423  
Target Organs: Liver, Gastrointestinal tract  
Symptoms: Fatality  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
LC50 (Rat, male and female): > 2.13 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The component/mixture is minimally toxic after single contact with skin.  
Remarks: no mortality

### Fluindapyr:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
  
LD50 (Rat, female): > 300 - 2,000 mg/kg  
Method: OECD Test Guideline 423  
Symptoms: ataxia, Breathing difficulties, Fatality  
GLP: yes  
Assessment: The component/mixture is minimally toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 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  
GLP: yes  
Assessment: The component/mixture is minimally toxic after single contact with skin.

### propane-1,2-diol:

Acute oral toxicity : LD50 (Rat, male and female): 22,000 mg/kg

Acute inhalation toxicity : LC0 (Rabbit): 31.7 mg/l  
Exposure time: 2 h  
Test atmosphere: vapor  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

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

Acute oral toxicity : Assessment: Toxic effects cannot be excluded

### Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

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

### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Assessment : No skin irritation  
Result : No skin irritation

#### Components:

##### **Flutriafol:**

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

##### **Fluindapyr:**

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

Assessment : Not classified as irritant  
Method : OECD Test Guideline 439  
GLP : yes

##### **propane-1,2-diol:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

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

Result : Skin irritation

##### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Remarks : No data available

### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Result : No eye irritation  
Assessment : No eye irritation

Remarks : Vapors may cause irritation to the eyes, respiratory system and the skin.

# SAFETY DATA SHEET

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## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

---

### Components:

#### **Flutriafol:**

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

#### **Fluindapyr:**

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

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

#### **propane-1,2-diol:**

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

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

Result	: Irreversible effects on the eye
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#### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

Result	: Eye irritation
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### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

### Product:

Assessment	: Not a skin sensitizer.
Result	: Not a skin sensitizer.

### Components:

#### **Flutriafol:**

Test Type	: Local lymph node assay (LLNA)
Species	: Mouse
Method	: OECD Test Guideline 429

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

Result : Not a skin sensitizer.

Test Type : Buehler Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Assessment : Did not cause sensitization on laboratory animals.  
Method : OECD Test Guideline 406

### Fluindapyr:

Test Type : Local lymph node assay (LLNA)  
Routes of exposure : Skin contact  
Method : OECD Test Guideline 429  
Result : May cause sensitization by skin contact.  
GLP : yes

### propane-1,2-diol:

Test Type : Maximization Test  
Species : Guinea pig  
Result : negative

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Flutriafol:

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

#### 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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

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

### propane-1,2-diol:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Result: negative

### Carcinogenicity

Not classified based on available information.

### Components:

#### 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  
Result : negative

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

#### 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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

Result : Not a carcinogenic hazard  
GLP : yes

### propane-1,2-diol:

Species : Rat  
Application Route : Oral  
Exposure time : 2 Years  
Result : negative

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**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** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

### Components:

#### Flutriafol:

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

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

#### Fluindapyr:

Effects on fertility : Test Type: Two-generation study  
General Toxicity Parent: NOAEL: ca. 30  
Method: OECD Test Guideline 416  
GLP: yes  
Remarks: Changes seen in the female reproductive tract resulted in no effects to reproduction or fertility.

### propane-1,2-diol:

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Mouse  
Application Route: Oral  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: Animal testing did not show any effects on fertility.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

Remarks: Based on data from similar materials

### STOT-single exposure

May cause respiratory irritation.

#### Components:

##### Flutriafol:

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Components:

##### 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

##### 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

##### propane-1,2-diol:

Species : Rat, male and female  
NOAEL : 1,700 mg/kg  
Application Route : Oral  
Exposure time : 2 Years

Species : Rat, male and female  
NOAEL : 1,000 mg/kg  
LOAEL : 160 mg/kg  
Application Route : Inhalation  
Exposure time : 90 Days

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

---

### Aspiration toxicity

Not classified based on available information.

### Components:

#### Flutriafol:

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

### Neurological effects

### Components:

#### Flutriafol:

No neurotoxicity observed in animal studies.

### Further information

### Product:

Remarks : No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

### Product:

### Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

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

### Components:

#### 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 : EC50 (Daphnia magna (Water flea)): 67 mg/l  
aquatic invertebrates 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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

	Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: IC50 ( <i>Selenastrum capricornutum</i> (green algae)): 12 mg/l Exposure time: 96 h  IC50 ( <i>Scenedesmus subspicatus</i> ): 1.9 mg/l Exposure time: 72 h  EbC50 ( <i>Lemna gibba</i> (duckweed)): 0.65 mg/l Exposure time: 7 d  EyC50 ( <i>Pseudokirchneriella subcapitata</i> (algae)): 3.69 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes
Toxicity to fish (Chronic toxicity)	: NOEC ( <i>Lepomis macrochirus</i> (Bluegill sunfish)): 4.8 mg/l Exposure time: 28 d  NOEC ( <i>Danio rerio</i> (zebra fish)): 20 mg/l Exposure time: 14 d Method: OECD Test Guideline 204  NOEC ( <i>Pimephales promelas</i> (fathead minnow)): 0.1 mg/l End point: Growth Test Type: Early Life-Stage Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC ( <i>Daphnia magna</i> (Water flea)): 0.31 mg/l Exposure time: 21 d  NOEC ( <i>Daphnia magna</i> (Water flea)): 0.45 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to soil dwelling organisms	: NOEC ( <i>Eisenia fetida</i> (earthworms)): 0.01 mg/cm2 Exposure time: 180 d  LC50 ( <i>Eisenia fetida</i> (earthworms)): > 1,000 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207
Toxicity to terrestrial organisms	: LD50 ( <i>Apis mellifera</i> (bees)): > 144 µg/bee End point: Acute oral toxicity Method: OECD Test Guideline 213 GLP: yes  LD50 ( <i>Apis mellifera</i> (bees)): > 150 µg/bee End point: Acute contact toxicity Method: OECD Test Guideline 214 GLP: yes



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

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

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

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

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

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

### 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  
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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

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

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.031 mg/l  
Exposure time: 32 d  
Test Type: Early-life Stage  
Method: OECD Test Guideline 210  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Americamysis bahia (mysid shrimp)): 0.062 mg/l  
Exposure time: 28 d  
Test Type: flow-through test  
Method: OPPTS 850.1350  
GLP: yes

NOEC (Daphnia magna (Water flea)): 0.12 mg/l  
Exposure time: 21 d  
Test substance: yes  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: Information refers to the main ingredient.

Toxicity to soil dwelling or- : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

ganisms

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 (*Colinus virginianus* (Bobwhite quail)): > 2,250 mg/kg

LD50 (*Apis mellifera* (bees)): > 300 µg/bee  
Exposure time: 48 h  
Method: OECD Test Guideline 214  
GLP: yes  
Remarks: Contact

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

### propane-1,2-diol:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 40,613 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : (*Mysidopsis bahia* (opossum shrimp)): 18,800 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 34,100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 13,020 mg/l  
Exposure time: 7 d

Toxicity to microorganisms : EC50 (*Pseudomonas putida*): > 20,000 mg/l  
Exposure time: 18 h

### 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.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

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 (Chronic toxicity)	:	EC10 (Daphnia magna (Water flea)): > 10 - 100 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials

### **Persistence and degradability**

#### **Components:**

##### **Flutriafol:**

Biodegradability	:	Result: Not readily biodegradable.
Stability in water	:	Remarks: Does not readily hydrolyze

##### **Fluindapyr:**

Biodegradability	:	Result: Not readily biodegradable.
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##### **propane-1,2-diol:**

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 23.6 % Exposure time: 64 d Method: OECD Test Guideline 306
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##### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-omega.-hydroxy-, phosphate, potassium salt:**

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 80 % Exposure time: 28 d
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# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

Method: OECD Test Guideline 301D  
Remarks: Based on data from similar materials

### **Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:**

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

### **Bioaccumulative potential**

#### **Components:**

##### **Flutriafol:**

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

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

##### **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

##### **propane-1,2-diol:**

Partition coefficient: n-octanol/water : log Pow: -1.07

### **Mobility in soil**

#### **Components:**

##### **Flutriafol:**

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Remarks: Very persistent in soil.

##### **Fluindapyr:**

Distribution among environmental compartments : Remarks: Low mobility in soil.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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.

#### 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

### Disposal methods

Waste from residues : 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.  
Dispose of as unused product.  
Do not re-use empty containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### **UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluindapyr, Flutriafol)

Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

#### **IATA-DGR**

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

UN/ID No. : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluindapyr, Flutriafol)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluindapyr, Flutriafol)

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

### 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 Road

Not regulated as a dangerous good

### 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.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### 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** : No SARA Hazards

**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.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

propane-1,2-diol	57-55-6	>= 5 - < 10 %
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### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

water	7732-18-5
Flutriafol	76674-21-0
Fluindapyr	1383809-87-7
propane-1,2-diol	57-55-6
Monobutyl ether of polymer of 2-methyloxirane / oxirane	9038-95-3

#### Maine Chemicals of High Concern

octamethylcyclotetrasiloxane [D4]	556-67-2
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#### Vermont Chemicals of High Concern

octamethylcyclotetrasiloxane [D4]	556-67-2
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#### Washington Chemicals of High Concern

Product does not contain any listed chemicals

### The ingredients 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 the following components that are not on the Canadian DSL nor NDSL.

FLUINDAPYR TECHNICAL

sodium hydroxide



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

Flutriafol

Smectite-group minerals

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

### TSCA list

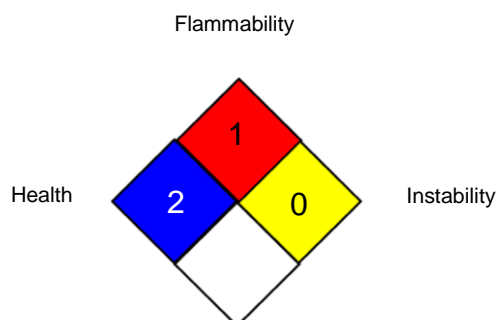
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



0 No health threat, 1 Slightly Hazardous, 2 Hazardous, 3 Extreme danger, 4 Deadly

#### HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
US WEEL / TWA : 8-hr TWA

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 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

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# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## AMBLISA®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	06/20/2024	50002631	Date of first issue: 05/13/2022

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