

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

### SECTION 1. IDENTIFICATION

#### Product identifier

**Product name** Benevia™ eVo

#### Other means of identification

**Product code** 50002726

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

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

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

#### Manufacturer or supplier's details

**Manufacturer** FMC Corporation  
2929 WALNUT ST  
PHILADELPHIA PA 19104  
USA  
(215) 299-6000  
SDS-Info@fmc.com

**Supplier Address** FMC Corporation  
2929 Walnut Street  
Philadelphia PA 19104  
USA

#### 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)

### SECTION 2. HAZARDS IDENTIFICATION

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

Skin sensitization : Sub-category 1B

**GHS label elements**

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version 1.0      Revision Date: 09/11/2024      SDS Number: 50002726      Date of last issue: -  
Date of first issue: 09/11/2024

Hazard pictograms :



Signal Word : WARNING

Hazard Statements : H317 May cause an allergic skin reaction.

Precautionary Statements :

**Prevention:**  
P261 Avoid breathing mist or vapors.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves.

**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.

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

### Other hazards

Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Cyantraniliprole	736994-63-1	28.3
Fatty acids, soya, Me esters	68919-53-9	>= 20 - < 30
calcium dodecylbenzenesulphonate	26264-06-2	>= 1 - < 3
docusate sodium	577-11-7	>= 1 - < 3
2-ethylhexan-1-ol	104-76-7	>= 1 - < 3

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : Move to fresh air.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

- If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
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 : Wash off with soap and water.  
If symptoms persist, call a physician.  
Wash contaminated clothing before re-use.
- 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.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Exposure to skin may result in mild symptoms include itching, hives or rash, and skin redness. More severe symptoms include sneezing, itchy watery eyes, and difficulty breathing. May cause an allergic skin reaction.
- 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, CO2, 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 : Fire may produce irritating, corrosive and/or toxic gases.  
brominated compounds  
Nitrogen oxides (NOx)  
Carbon oxides  
Chlorinated compounds  
Hydrogen chloride  
Hydrogen cyanide  
Hazardous combustion products  
Sulfur oxides

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

- |  |   |  |
|--|---|--|
| Specific extinguishing methods                 | : | Remove undamaged containers from fire area if it is safe to do so.<br>Use a water spray to cool fully closed containers.   |
| Further information                            | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<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 further leakage or spillage if safe to do so.<br>Prevent product from entering drains.<br>If the product contaminates rivers and lakes or drains inform respective authorities.   |
| Methods and materials for containment and cleaning up               | : | Never return spills in original containers for re-use.<br>Collect as much of the spill as possible with a suitable absorbent material.<br>Pick up and transfer to properly labeled containers.<br>Keep in suitable, closed containers for disposal. |

### SECTION 7. HANDLING AND STORAGE

- |   |   |   |
|---|---|---|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection.   |
| Advice on safe handling                         | : | Do not breathe vapors/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations.<br>Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. |

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version 1.0      Revision Date: 09/11/2024      SDS Number: 50002726      Date of last issue: -  
Date of first issue: 09/11/2024

- Conditions for safe storage : 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.
- Materials to avoid : Do not store near acids.
- 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
2-ethylhexan-1-ol	104-76-7	TWA	5 ppm	ACGIH

#### Personal protective equipment

- Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
- 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 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.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version 1.0	Revision Date: 09/11/2024	SDS Number: 50002726	Date of last issue: - Date of first issue: 09/11/2024
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Form	:	liquid
Color	:	off-white
Odor	:	Faint odour
Odor Threshold	:	No data available
pH	:	4.59 Method: CIPAC MT 75.3 (1% solution in water)
Melting point/ range	:	No data available
Boiling point/boiling range	:	No data available
Evaporation rate	:	No data available
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
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.053 g/cm <sup>3</sup>
Solubility(ies) Water solubility	:	dispersible
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	730 mPa.s (68 °F / 20 °C)

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

	6 rpm
	745 mPa.s (104 °F / 40 °C)
	6 rpm
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing
Surface tension	: 37.9 mN/m, Regulation (EC) No. 440/2008, Annex, A.5
Molecular weight	: Not applicable
Particle size	: Not applicable

### 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 reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Avoid extreme temperatures. Avoid formation of aerosol.
Incompatible materials	: Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	: Stable under recommended storage conditions. No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Skin contact

#### Acute toxicity

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

#### Product:

Acute oral toxicity	: LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425 GLP: yes Assessment: The substance or mixture has no acute oral toxicity
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# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

Remarks: no mortality

Acute inhalation toxicity : LC50: > 5.16 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Breathing difficulties  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality

Acute dermal toxicity : 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

### Components:

#### **Cyantraniliprole:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 425  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Fatty acids, soya, Me esters:**

Acute oral toxicity : LD50 (Rat): 5,000 - 15,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 2,000 - 20,000 mg/kg

#### **calcium dodecylbenzenesulphonate:**

Acute oral toxicity : LD50 (Rat, male and female): 1,300 mg/kg  
Remarks: Based on data from similar materials

Acute inhalation toxicity : Remarks: Not classified

Acute dermal toxicity : LD50 (Rat, male and female): > 2000 milligram per kilogram



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### **docusate sodium:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,100 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit, male): > 10,000 mg/kg  
Method: OECD Test Guideline 402

### **2-ethylhexan-1-ol:**

Acute oral toxicity : LD50 (Rat, male): 2,047 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 3,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

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

### **Product:**

Species : Rabbit  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 404  
Result : slight or no skin irritation.  
Remarks : Minimal effects that do not meet the threshold for classification.

### **Components:**

#### **Cyantraniliprole:**

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

#### **Fatty acids, soya, Me esters:**

Result : slight irritation

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

---

### calcium dodecylbenzenesulphonate:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Skin irritation

### docusate sodium:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Skin irritation

### 2-ethylhexan-1-ol:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Skin irritation

### Serious eye damage/eye irritation

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

#### Product:

Species	: Rabbit
Result	: Slight or no eye irritation
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 405
Remarks	: Minimal effects that do not meet the threshold for classification.

#### Components:

##### Cyantraniliprole:

Species	: Rabbit
Result	: No eye irritation
Assessment	: No eye irritation
Method	: OECD Test Guideline 405
Remarks	: Minimal effects that do not meet the threshold for classification.

##### Fatty acids, soya, Me esters:

Result	: Irritation to eyes, reversing within 7 days
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### calcium dodecylbenzenesulphonate:

Species	: Rabbit
Result	: Irreversible effects on the eye
Method	: OECD Test Guideline 405
Remarks	: Based on data from similar materials

Species	: Rabbit
Result	: Irreversible effects on the eye

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

---

Method : OECD Test Guideline 405

### **docosate sodium:**

Species : Rabbit  
Result : Risk of serious damage to eyes.  
Method : OECD Test Guideline 405

### **2-ethylhexan-1-ol:**

Species : Rabbit  
Result : Irritation to eyes, reversing within 21 days  
Method : OECD Test Guideline 405

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

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

#### **Product:**

Test Type : Local lymph node assay (LLNA)  
Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitizer, sub-category 1B.

Test Type : Buehler Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.

Remarks : Causes sensitization.

#### **Components:**

##### **Cyantraniliprole:**

Test Type : Local lymph node test  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitization.

##### **Fatty acids, soya, Me esters:**

Result : Does not cause skin sensitization.

##### **calcium dodecylbenzenesulphonate:**

Test Type : Maximization Test  
Species : Guinea pig  
Method : OECD Test Guideline 406

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

Result : Not a skin sensitizer.  
Remarks : Based on data from similar materials

### **docusate sodium:**

Routes of exposure : Skin contact  
Species : Humans  
Result : Does not cause skin sensitization.

### **Germ cell mutagenicity**

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

### **Components:**

#### **Cyantraniliprole:**

Germ cell mutagenicity - : Tests on bacterial or mammalian cell cultures did not show  
Assessment mutagenic effects.

#### **calcium dodecylbenzenesulphonate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: chromosome aberration assay  
Species: Rat (male and female)  
Application Route: Oral  
Exposure time: 90 d  
Result: negative  
Remarks: Based on data from similar materials

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

#### **docusate sodium:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Remarks: No data available

#### **2-ethylhexan-1-ol:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

---

### Carcinogenicity

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

### Components:

#### Cyantraniliprole:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### Fatty acids, soya, Me esters:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### calcium dodecylbenzenesulphonate:

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 720 d  
NOAEL : 250 mg/kg body weight  
Result : negative  
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### 2-ethylhexan-1-ol:

Species : Rat  
Application Route : Oral  
Exposure time : 24 month(s)  
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

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

### Components:

#### Cyantraniliprole:

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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

---

### calcium dodecylbenzenesulphonate:

- Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Ingestion  
General Toxicity Parent: NOAEL: 400 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative
- Effects on fetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Developmental Toxicity: NOAEL: 600 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative
- Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### docusate sodium:

- Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Application Route: Ingestion  
Method: OECD Test Guideline 416  
Result: negative
- Effects on fetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Duration of Single Treatment: 6 - 15 d  
Method: OECD Test Guideline 414  
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses

### 2-ethylhexan-1-ol:

- Effects on fetal development : Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: negative

### STOT-single exposure

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

### Components:

#### Cyantraniliprole:

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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

---

### 2-ethylhexan-1-ol:

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

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

### Components:

#### Cyantraniliprole:

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

### Repeated dose toxicity

### Components:

#### Cyantraniliprole:

Species	: Rat
NOAEL	: > 1,000 mg/kg
Application Route	: Oral
Exposure time	: 28 d
Method	: OECD Test Guideline 407
Symptoms	: increased liver weight
Remarks	: Based on available data, the classification criteria are not met.

#### calcium dodecylbenzenesulphonate:

Species	: Rat, male and female
NOAEL	: 85 mg/kg
LOAEL	: 145 mg/kg
Application Route	: Oral
Exposure time	: 9 Months
Remarks	: Based on data from similar materials

Species	: Rat, male
LOAEL	: 286 mg/kg
Application Route	: Skin contact
Exposure time	: 15 Days
Remarks	: Based on data from similar materials

Species	: Rat, male and female
NOAEL	: 100 mg/kg bw/day
LOAEL	: 200 mg/kg bw/day
Application Route	: Oral - gavage
Exposure time	: 28 - 54 Days
Method	: OECD Test Guideline 422
Remarks	: Based on data from similar materials

#### docusate sodium:

Species	: Rat, male and female
NOAEL	: 750 mg/kg

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408

### 2-ethylhexan-1-ol:

Species : Rat  
: 250 mg/kg  
Application Route : Oral  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 408

### Aspiration toxicity

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

### Components:

#### Cyantraniliprole:

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

### Further information

#### Product:

Remarks : No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 53 mg/l Exposure time: 96 h Test Type: Static renewal test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.096 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	: EyC50 (Raphidocelis subcapitata (freshwater green alga)): ca. 6.6 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 GLP: yes
Toxicity to terrestrial organisms	: LD50 (Colinus virginianus (Bobwhite quail)): > 750 mg/kg End point: Acute oral toxicity Method: OECD Test Guideline 223



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

GLP: yes

LD50 (Apis mellifera L.): 0.59 µg/bee  
Exposure time: 48 d  
End point: Acute oral toxicity  
Method: OECD Test Guideline 213

LD50 (Apis mellifera L.): 1.06 µg/bee  
Exposure time: 48 d  
End point: Acute contact toxicity  
Method: OECD Test Guideline 214

ER50 (Typhlodromus pyri.): > 1000 g/ha

LR50 (Typhlodromus pyri.): > 1000 g/ha

### Components:

#### **Cyantraniliprole:**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 12.6 mg/l Exposure time: 96 h
		LC50 (Ictalurus punctatus (channel catfish)): > 10 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0204 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 13 mg/l Exposure time: 72 h
		ErC50 (Lemna gibba (duckweed)): 0.278 mg/l Exposure time: 7 d
		EyC50 (Lemna gibba (duckweed)): 0.060 mg/l Exposure time: 7 d
Toxicity to fish (Chronic toxicity)	:	NOEC (Cyprinodon variegatus (sheepshead minnow)): 2.9 mg/l Exposure time: 28 d
		NOEC (Oncorhynchus mykiss (rainbow trout)): 0.11 mg/l Exposure time: 21 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.00656 mg/l Exposure time: 21 d
		NOEC (Daphnia magna (Water flea)): 0.00969 mg/l Exposure time: 21 d

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

NOEC (Daphnia magna (Water flea)): 0.00447 mg/l  
Exposure time: 21 d

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d

Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): > 0.0934 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity

LD50 (Apis mellifera (bees)): > 0.1055 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity

LD50 (Colinus virginianus (Bobwhite quail)): 2,250 mg/kg

### Fatty acids, soya, Me esters:

Toxicity to fish : LC50 (Fish): > 1,000 mg/l  
Exposure time: 96 h

LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l  
Exposure time: 48 h  
Method: ISO 7346/2

Toxicity to daphnia and other aquatic invertebrates : EC50 (Crustaceans): 800 - 5,243 mg/l  
Exposure time: 48 h

### calcium dodecylbenzenesulphonate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

LC50 (Pimephales promelas (fathead minnow)): 4.6 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 7.9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC50 (Pseudokirchneriella subcapitata (green algae)): 65.4 mg/l  
Exposure time: 72 h

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.65 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

NOEC (Daphnia magna (Water flea)): 1.18 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): 500 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): 1,000 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): 1,356 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 223

### **docusate sodium:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 49 mg/l  
Exposure time: 96 h  
Method: Regulation (EC) No. 440/2008, Annex, C.1

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 15.2 mg/l  
Exposure time: 48 h  
Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 82.5 mg/l  
Exposure time: 72 h  
Method: Regulation (EC) No. 440/2008, Annex, C.3

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): 9 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (Pseudomonas putida): 164 mg/l  
Exposure time: 16.5 h  
Method: DIN 38 412 Part 8

EC10 (Pseudomonas putida): 122 mg/l  
Exposure time: 16.5 h

### **2-ethylhexan-1-ol:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 17.1 - 28.2 mg/l  
Exposure time: 96 h

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 39 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC10 (Desmodesmus subspicatus (green algae)): 3.2 mg/l Exposure time: 72 h  EC50 (Desmodesmus subspicatus (green algae)): 11.5 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Anabaena flos-aquae (cyanobacterium)): 16.6 mg/l Exposure time: 72 h

### Persistence and degradability

#### Components:

##### **Cyantraniliprole:**

Biodegradability : Remarks: Not readily biodegradable.

##### **Fatty acids, soya, Me esters:**

Biodegradability : Result: Readily biodegradable.

##### **calcium dodecylbenzenesulphonate:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301E

##### **docusate sodium:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 91 %  
Exposure time: 28 d

##### **2-ethylhexan-1-ol:**

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **Cyantraniliprole:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): < 1  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1.97 (72 °F / 22 °C)  
pH: 4

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

log Pow: 2.07 (72 °F / 22 °C)  
pH: 7

log Pow: 1.74 (72 °F / 22 °C)  
pH: 9

### Fatty acids, soya, Me esters:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

### calcium dodecylbenzenesulphonate:

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 70.79  
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: 4.77 (77 °F / 25 °C)

### docosate sodium:

Bioaccumulation : Remarks: Not applicable

Partition coefficient: n-octanol/water : log Pow: 1.998 (68 °F / 20 °C)

### 2-ethylhexan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 2.9 (77 °F / 25 °C)

### Mobility in soil

#### Components:

#### Cyantraniliprole:

Distribution among environmental compartments : Koc: 241 ml/g, log Koc: 2.38  
Remarks: Mobile in soils

### 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.  
Very toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Appropriate personal protective equipment, as described in Sections 7 and 8, should be worn when handling materials for waste disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Cyantraniliprole)  
Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

##### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Cyantraniliprole)  
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.  
(Cyantraniliprole)  
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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

UN/ID/NA number : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (Cyantraniliprole)  
Class : 9  
Packing group : III  
Labels : CLASS 9  
ERG Code : 171  
Marine pollutant : yes(Cyantraniliprole)  
Remarks : Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

### Special precautions for user

Remarks : 49CFR: no dangerous good in non-bulk packaging

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

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
methanol	67-56-1	100	100 (F003)

### 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** : Respiratory or skin sensitization  
Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### 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):

2-ethylhexan-1-ol	104-76-7	>= 1 - < 5 %
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# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

calcium dodecylbenzenesulphonate	26264-06-2	>= 1 - < 5 %
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

calcium dodecylbenzenesulphonate	26264-06-2	>= 1 - < 5 %
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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

calcium dodecylbenzenesulphonate	26264-06-2
2-ethylhexan-1-ol	104-76-7

#### Pennsylvania Right To Know

Cyantraniliprole	736994-63-1
Fatty acids, soya, Me esters	68919-53-9
Trioctyl Phosphate	78-42-2
water	7732-18-5
Polyoxyethylene sorbitol hexaoleate	57171-56-9
calcium dodecylbenzenesulphonate	26264-06-2
2-ethylhexan-1-ol	104-76-7
methanol	67-56-1

#### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

#### Washington Chemicals of High Concern

Product does not contain any listed chemicals

#### California Prop. 65

WARNING: This product can expose you to chemicals including methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### California List of Hazardous Substances

calcium dodecylbenzenesulphonate	26264-06-2
----------------------------------	------------

#### 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 chemical substance(s) exempt from



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

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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

### TSCA list

No substances are subject to a Significant New Use Rule.

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

### FIFRA information

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

### CAUTION

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

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## SECTION 16. OTHER INFORMATION

### Further information

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

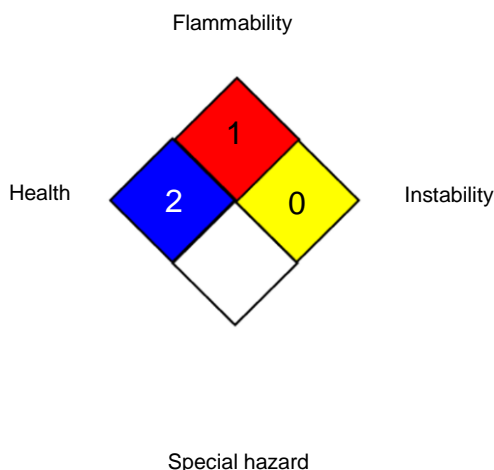
Version  
1.0

Revision Date:  
09/11/2024

SDS Number:  
50002726

Date of last issue: -  
Date of first issue: 09/11/2024

### 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

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH / TWA : 8-hour, time-weighted average

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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Benevia™ eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/11/2024	50002726	Date of first issue: 09/11/2024

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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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