

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

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### 1. IDENTIFICATION

Product name : Preza® eVo

Other means of identification : Prodigy® insecticide

#### Manufacturer or supplier's details

Company : FMC LATINOAMERICA S.A.

Address : (SUCURSAL BOLIVIA)  
EQUIPETROL, AV. SAN MARTÍN,  
EDIF. AMBASSADOR P-19,  
SANTA CRUZ – BOLIVIA  
+591 (3) 337-7474

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

Emergency telephone : 1 703 / 741-5970 (CHEMTREC - International)

Medical Emergency Number : CALL 800-10-6966, JAPANESE UNIVERSITY HOSPITAL  
POISON INFORMATION CENTER. SANTA CRUZ-BOLIVIA.

#### 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.

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 4

Skin corrosion/irritation : Category 3

Skin sensitization : Sub-category 1B

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

### GHS label elements

Hazard pictograms



Signal Word

: WARNING

Hazard Statements

: H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
H316 Causes mild skin irritation.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**

P261 Avoid breathing mist or vapors.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or with adequate ventilation.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing.

**Response:**

P301 + P317 + P330 IF SWALLOWED: Get medical help.  
Rinse mouth.  
P302 + P352 + P317 IF ON SKIN: Wash with plenty of water.  
Get medical help.  
P304 + P340 + P317 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.  
P333 + P317 If skin irritation or rash occurs: Get medical help.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

**Disposal:**

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

### Other hazards which do not result in classification

Hazard Statements required by Andean Technical Manual for the Registration and Control of Chemical Pesticides for Agricultural Use (Resolution no. 2075):  
Harmful if swallowed, in contact with skin or if inhaled.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

### Components

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version 1.0      Revision Date: 13.03.2025      SDS Number: 50002726      Date of last issue: -  
Date of first issue: 13.03.2025

Chemical name	CAS-No.	Concentration (% w/w)
Cyantraniliprole	736994-63-1	>= 25 - < 30
Fatty acids, soya, Me esters	68919-53-9	>= 20 - < 30
Polyoxyethylene sorbitol hexaoleate	57171-56-9	>= 2,5 - < 10
calcium dodecylbenzenesulphonate	26264-06-2	>= 1 - < 2,5
2-ethylhexan-1-ol	104-76-7	>= 1 - < 2,5
docusate sodium	577-11-7	>= 1 - < 2,5

### 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 : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- 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 : Harmful if swallowed, in contact with skin or if inhaled.  
Causes mild skin irritation.  
May cause an allergic skin reaction.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.
- Notes to physician : Treat symptomatically.

### 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.
- Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
brominated compounds

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Chlorinated compounds  
Hydrogen chloride  
Hydrogen cyanide  
Sulfur oxides

- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Use a water spray to cool fully closed containers.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Use personal protective equipment.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Never return spills in original containers for re-use.  
Collect as much of the spill as possible with a suitable absorbent material.  
Pick up and transfer to properly labeled containers.  
Keep in suitable, closed containers for disposal.

## 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.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
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.

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.

Further information on storage conditions : The product is stable under normal conditions of warehouse storage.  
Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

Materials to avoid : Do not store near acids.

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

## 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

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

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.  
Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.  
In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

Hygiene measures : Avoid contact with skin, eyes and clothing.  
Do not inhale aerosol.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Form : Liquid dispersion

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

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

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

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : 730 mPa.s ( 20 °C)  
6 rpm  
745 mPa.s ( 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

## 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : Avoid extreme temperatures.  
Avoid formation of aerosol.  
Protect from frost, heat and sunlight.

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

Hazardous decomposition products : Stable under recommended storage conditions.  
No hazardous decomposition products are known.

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Ingestion  
Skin contact

### Acute toxicity

Harmful if swallowed, in contact with skin or if inhaled.

#### 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  
Remarks: no mortality

Assessment: The component/mixture is moderately toxic after single ingestion.  
Remarks: Resolution no. 2075

Acute inhalation toxicity : LC50: > 5,16 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  
Remarks: no mortality

Assessment: The component/mixture is moderately toxic after short term inhalation.  
Remarks: Resolution no. 2075

Acute dermal toxicity : LD50(Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal



# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

---

toxicity  
Remarks: no mortality

Assessment: The component/mixture is moderately toxic after single contact with skin.  
Remarks: Resolution no. 2075

### Components:

#### **Cyantraniliprole:**

Acute oral toxicity : LD50 (Mouse, female): > 5.000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: no mortality

LD50 (Rat, female): > 5.000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
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  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: no mortality

#### **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

#### **Polyoxyethylene sorbitol hexaoleate:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

#### **calcium dodecylbenzenesulphonate:**

Acute oral toxicity : LD50 (Rat, male and female): 1.300 mg/kg

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

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

### 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

### docosate 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

### Skin corrosion/irritation

Causes mild skin irritation.

### Product:

Species : Rabbit  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 404  
Result : slight irritation

### Components:

#### Cyantraniliprole:

Species : Rabbit  
Assessment : No skin irritation

Method : OECD Test Guideline 404  
Result : No skin irritation

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

---

GLP : yes

### Fatty acids, soya, Me esters:

Result : slight irritation

### Polyoxyethylene sorbitol hexaoleate:

Species : Rabbit  
Result : No skin irritation

### calcium dodecylbenzenesulphonate:

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

### 2-ethylhexan-1-ol:

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

### docusate sodium:

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  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 405  
Result : slight irritation  
Remarks : Minimal effects that do not meet the threshold for classification.

### Components:

#### Cyantraniliprole:

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

### Fatty acids, soya, Me esters:

Result : Irritation to eyes, reversing within 7 days

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

---

### Polyoxyethylene sorbitol hexaoleate:

Species	: Rabbit
Result	: No eye irritation

### calcium dodecylbenzenesulphonate:

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

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Irreversible effects on the eye

### 2-ethylhexan-1-ol:

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

### docusate sodium:

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

### 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.
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#### Components:

#### Cyantraniliprole:

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

---

Test Type	: Local lymph node test
Routes of exposure	: Dermal
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitization.
GLP	: yes

Test Type	: Maximization Test
Routes of exposure	: Dermal
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitization.
GLP	: yes

Test Type	: Buehler Test
Routes of exposure	: Dermal
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitization.
GLP	: yes

Test Type	: Magnusson-Kligman test
Routes of exposure	: Dermal
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Causes skin sensitization.
GLP	: yes
Remarks	: see user defined free text

### Fatty acids, soya, Me esters:

Result	: Does not cause skin sensitization.
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### Polyoxyethylene sorbitol hexaoleate:

Test Type	: Human repeat insult patch test (HRIPT)
Species	: Humans
Result	: negative

### calcium dodecylbenzenesulphonate:

Test Type	: Maximization Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.
Remarks	: Based on data from similar materials

### docosate sodium:

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

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

---

### Germ cell mutagenicity

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

#### Components:

##### **Cyantraniliprole:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: reverse mutation assay  
Test system: Escherichia coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

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

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

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

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

---

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

### **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

### **docosate 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

### **Carcinogenicity**

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

#### **Components:**

##### **Cyantraniliprole:**

Species : Rat, male and female  
Application Route : Ingestion  
Exposure time : 2 Years  
NOAEL : 200 - 2.000 ppm  
Method : OECD Test Guideline 453  
Result : negative

Species : Mouse, male and female  
Application Route : Ingestion  
Exposure time : 18 month(s)  
NOAEL : 7.000 ppm  
Method : OECD Test Guideline 451  
Result : negative

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

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

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

### Reproductive toxicity

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

### Components:

#### Cyantraniliprole:

Effects on fetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 1.000 mg/kg bw/day  
Embryo-fetal toxicity.: NOAEL: 1.000 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: negative

Test Type: Pre-natal  
Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 25 mg/kg bw/day  
Embryo-fetal toxicity.: NOAEL: 100 mg/kg bw/day  
Symptoms: Maternal effects.  
Method: OECD Test Guideline 414  
Result: negative

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

#### 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



# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

---

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

### 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

### 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

### 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.

### 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

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

organ toxicant, repeated exposure.

### Repeated dose toxicity

#### Components:

##### **Cyantraniliprole:**

Species	: Rat
NOAEL	: > 1.000 mg/kg
Application Route	: Oral
Exposure time	: 28 Days
Method	: OECD Test Guideline 407
Symptoms	: increased liver weight
Remarks	: Based on available data, the classification criteria are not met.

Species	: Rat, male and female
NOAEL	: 6,9 - 168 mg/kg bw/day
Application Route	: Ingestion
Exposure time	: 90 Days
Method	: OPPTS 870.3100
Remarks	: Effects are of limited toxicological significance.

Species	: Mouse, male and female
NOAEL	: 1091,8 mg/kg bw/day
Application Route	: Ingestion
Exposure time	: 90 Days
Method	: OPPTS 870.3100
Remarks	: Effects are of limited toxicological significance.

Species	: Dog, male and female
NOAEL	: 3,08 - 3,48 mg/kg bw/day
Application Route	: Ingestion
Exposure time	: 90 Days
Method	: OPPTS 870.3150
Remarks	: Effects are of limited toxicological significance.

Species	: Rat, male and female
NOAEL	: 8,3 - 106,6 mg/kg bw/day
Application Route	: Ingestion
Exposure time	: 2 yr
Method	: OPPTS 870.4300
Remarks	: Effects are of limited toxicological significance.

Species	: Mouse, male and female
NOAEL	: 768,8 - 903,8 mg/kg bw/day
Application Route	: Ingestion
Exposure time	: 18 Months
Method	: OPPTS 870.4200
Remarks	: Effects are of limited toxicological significance.

Species	: Dog, male and female
NOAEL	: 5,67 - 6 mg/kg bw/day
Application Route	: Ingestion

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

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Exposure time : 1 yr  
Method : OPPTS 870.4100  
Remarks : Effects are of limited toxicological significance.

Species : Rat, male and female  
NOAEL : 1000 mg/kg  
Application Route : Dermal  
Exposure time : 28 Days  
Method : OECD Test Guideline 410  
GLP : yes  
Symptoms : Irritation  
Remarks : Effects are of limited toxicological significance.

### 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

### 2-ethylhexan-1-ol:

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

### docosate sodium:

Species : Rat, male and female  
NOAEL : 750 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

### 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.

### Neurological effects

#### Components:

#### **Cyantraniliprole:**

No neurotoxicity observed in animal studies.

#### **Further information**

#### Product:

Remarks : No data available

## 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: > 750 mg/kg End point: Acute oral toxicity Species: Colinus virginianus (Bobwhite quail) Method: OECD Test Guideline 223 GLP: yes  LD50: 0,59 µg/bee Exposure time: 48 d End point: Acute oral toxicity

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

---

Species: *Apis mellifera* L.  
Method: OECD Test Guideline 213

LD50: 1,06 µg/bee  
Exposure time: 48 d  
End point: Acute contact toxicity  
Species: *Apis mellifera* L.  
Method: OECD Test Guideline 214

### Components:

#### **Cyantraniliprole:**

Toxicity to fish	:	LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): > 12,6 mg/l Exposure time: 96 h Method: US EPA Test Guideline OPP 72-1 GLP: yes
		LC50 ( <i>Ictalurus punctatus</i> (channel catfish)): > 10 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 ( <i>Daphnia magna</i> (Water flea)): 0,0204 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): > 13 mg/l Exposure time: 72 h
		ErC50 ( <i>Lemna gibba</i> (duckweed)): 0,278 mg/l Exposure time: 7 d
		EyC50 ( <i>Lemna gibba</i> (duckweed)): 0,060 mg/l Exposure time: 7 d
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic toxicity)	:	NOEC: 2,9 mg/l Exposure time: 28 d Species: <i>Cyprinodon variegatus</i> (sheepshead minnow)
		NOEC: 0,11 mg/l Exposure time: 21 d Species: <i>Oncorhynchus mykiss</i> (rainbow trout)
		NOEC: 1,01 mg/l Exposure time: 90 d Species: <i>Oncorhynchus mykiss</i> (rainbow trout) Test Type: Early Life-Stage Method: US EPA Test Guideline OPP 72-4 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic)	:	NOEC: 0,00656 mg/l End point: Growth

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

ic toxicity)

Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: Static-Renewal  
Method: US EPA Test Guideline OPPTS 850.1300  
GLP: yes

LOEC: 0,00969 mg/l  
End point: Growth  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: Static-Renewal  
Method: US EPA Test Guideline OPPTS 850.1300  
GLP: yes

NOEC: 0,00447 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

NOEC: 0,72 mg/l  
End point: reproduction  
Exposure time: 35 d  
Species: Americamysis bahia (mysid shrimp)  
Test Type: flow-through test  
Method: US EPA Test Guideline OPP 72-4  
GLP: yes

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : NOEC: 1.000 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 222  
GLP: yes  
  
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: > 0,0934 µg/bee  
Exposure time: 72 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 214  
GLP: yes

LD50: > 0,1055 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

---

Species: *Apis mellifera* (bees)  
Method: OECD Test Guideline 213  
GLP: yes

LD50: > 2.250 mg/kg  
End point: Acute oral toxicity  
Species: *Colinus virginianus*  
Method: US EPA Test Guideline OPPTS 850.2100  
GLP: yes

NOEC: 1.000 ppm  
End point: Reproduction Test  
Species: *Anas platyrhynchos* (Mallard duck)  
Method: OECD Test Guideline 206  
GLP: yes

### 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

### Polyoxyethylene sorbitol hexaoleate:

Toxicity to algae/aquatic plants : EbC50 ( *Skeletonema costatum* (Diatom)): 20 mg/l  
Exposure time: 72 h

ErC50 ( *Skeletonema costatum* (Diatom)): 98 mg/l  
Exposure time: 72 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

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

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  
Method: OECD Test Guideline 201  
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 daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,65 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Remarks: Based on data from similar materials

NOEC: 1,18 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms : LC50: 1.000 mg/kg  
Exposure time: 14 d  
Species: *Eisenia fetida* (earthworms)  
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50: 1.356 mg/kg  
Exposure time: 14 d  
Species: *Colinus virginianus* (Bobwhite quail)  
Method: OECD Test Guideline 223

### 2-ethylhexan-1-ol:

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): 17,1 - 28,2 mg/l  
Exposure time: 96 h

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

### docusate sodium:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 49 mg/l



# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

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

### Persistence and degradability

#### Product:

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

#### Components:

##### **Cyantraniliprole:**

Biodegradability : Remarks: Not readily biodegradable.

Stability in water : Degradation half life (DT50): 9,09 - 37,7 d  
Remarks: Fresh water

Degradation half life (DT50): 76,6 - 119 d  
Remarks: Soil

Degradation half life (DT50): 22,8 - 25,1 d  
Remarks: total system

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

Biodegradability : Result: Readily biodegradable.

##### **Polyoxyethylene sorbitol hexaoleate:**

Biodegradability : Result: Biodegradable  
Biodegradation: 99 %

Result: Biodegradable

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

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Biodegradation: 65 %

### **calcium dodecylbenzenesulphonate:**

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

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

Biodegradability : Result: Readily biodegradable.

### **docusate sodium:**

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

### **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 (22 °C)  
pH: 4

log Pow: 2,07 (22 °C)  
pH: 7

log Pow: 1,74 (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 (25 °C)

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

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

Partition coefficient: n-octanol/water : log Pow: 2,9 (25 °C)

### **docusate sodium:**

Bioaccumulation : Remarks: Not applicable

Partition coefficient: n-octanol/water : log Pow: 1,998 (20 °C)

### **Mobility in soil**

#### **Product:**

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

#### **Components:**

#### **Cyantraniliprole:**

Distribution among environmental compartments : Koc: 241 ml/g, log Koc: 2,38  
Kd: 3,73 ml/g  
Remarks: Mobile in soils

### **Other adverse effects**

#### **Product:**

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.

## 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 : It is prohibited to reuse, bury, burn, or sell containers. Rinsable containers: Triple rinse containers of less than 20 liters and pressure rinse containers of 20 liters or more. Triple rinsing: Add water up to ¼ of the container's capacity, close and shake for 30 seconds. Pour the rinse water into the mixing tank, considering this volume of water within the recommended volume for mixing preparation. Perform this procedure three times. Pressure rinsing: Activate the pressure rinsing device for 30 seconds, considering the volume of water used as part of the recommended volume for mixing preparation. In both procedures, punctured the container on its base without

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

damaging the label. In all cases, take the empty containers to collection points indicated by the local empty containers program.

### 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 IMO instruments

Not applicable for product as supplied.

#### Special precautions for user

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

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

### 15. REGULATORY INFORMATION

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

**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 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

### 16. OTHER INFORMATION

Revision Date	: 13.03.2025
Date format	: dd.mm.yyyy

**Further information**

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

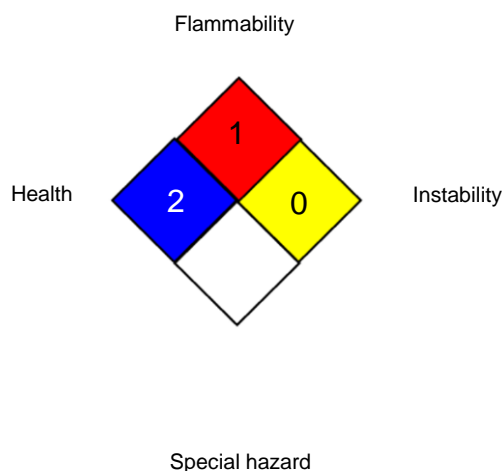
Version  
1.0

Revision Date:  
13.03.2025

SDS Number:  
50002726

Date of last issue: -  
Date of first issue: 13.03.2025

### NFPA:



### 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; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Trans-

# SAFETY DATA SHEET

according to the Globally Harmonized System



## Preza® eVo

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.03.2025	50002726	Date of first issue: 13.03.2025

---

portation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

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