

# SAFETY DATA SHEET

according to the Globally Harmonized System



## PRESIPEL®

Version	Revision Date:	SDS Number:	Date of last issue: -
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### 1. IDENTIFICATION

Product name : PRESIPEL®

Other means of identification : REVESEAR®

#### Manufacturer or supplier's details

Company : FMC LATINOAMÉRICA S.A. SUCURSAL

Address : AV. CIRCUNVALACIÓN DEL CLUB GOLF  
LOS INCAS NO. 208, INTERIOR, 705-B,  
TORRE 111 URBANIZACIÓN CLUB GOLF  
LOS INCAS SANTIAGO DE SURCO.  
LIMA, PERÚ

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

Emergency telephone : 1 703 / 741-5970 (CHEMTREC - International)  
Peru: 51-17071295 (CHEMTREC)

Medical Emergency Number : Desde Perú: SAMU: 106;  
CISPROQUIM®: 080-050-847;  
FMC LATINOAMERICA S.A. SUCURSAL: 421-4811;  
Desde Bogotá: 288 60 12; Línea Nacional: 01 8000 916012  
Desde Ecuador: 1800 593005 (Quito, La Sierra, Centro y  
Norte).  
Desde Venezuela: 0800 1005012

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

Recommended use : Insecticide

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

Specific target organ toxicity - : Category 1 (Central nervous system)  
repeated exposure

Short-term (acute) aquatic : Category 1

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hazard

Long-term (chronic) aquatic hazard : Category 1

### GHS label elements

Hazard pictograms :

Signal Word : DANGER

Hazard Statements : H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P260 Do not breathe 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.  
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.  
P319 Get medical help if you feel unwell.  
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 inhaled.  
Harmful in contact with skin.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Bifenthrin	82657-04-3	$\geq 10$ - $< 20$
Chlorantraniliprole	500008-45-7	$\geq 2,5$ - $< 10$
glycerol	56-81-5	$\geq 1$ - $< 10$
D-Glucopyranose, oligomeric, C9-11-alkyl glycosides	132778-08-6	$\geq 3$ - $< 10$
ammonium sulphate	7783-20-2	$\geq 2,5$ - $< 10$

## 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.
- 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 : Rinse thoroughly with plenty of water, also under the eyelids.  
If eye irritation persists, consult a specialist.
- If swallowed : Immediately call a POISON CENTER or doctor.  
Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed, in contact with skin or if inhaled.  
Causes damage to organs through prolonged or repeated exposure.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
Avoid inhalation, ingestion and contact with skin and eyes.  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
Avoid inhalation, ingestion and contact with skin and eyes.

## 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.
- Specific hazards during fire : Do not allow run-off from fire fighting to enter drains or water

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| fighting                                       | courses.   |
| Hazardous combustion products                  | : Fire may produce irritating, corrosive and/or toxic gases.<br>Carbon oxides<br>Fluorinated compounds<br>Chlorinated compounds<br>Hydrogen chloride<br>Hydrogen fluoride<br>Nitrogen oxides (NOx)<br>Bromine compounds<br>Chlorine compounds<br>Hydrogen cyanide<br>Ammonia<br>Sulfur oxides<br>Sulphuric acid  |
| 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.<br>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.   |

## 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.<br>Never return spills in original containers for re-use.<br>Mark the contaminated area with signs and prevent access to unauthorized personnel.<br>Only qualified personnel equipped with suitable protective equipment may intervene.<br>For disposal considerations see section 13. |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities.  |
| Methods and materials for containment and cleaning up               | : 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.  |

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### 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
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. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.
- Further information on storage stability : No decomposition if stored and applied as directed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (Mist)	10 mg/m <sup>3</sup>	PE OEL

#### 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.

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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. Always have on hand a first-aid kit, together with proper instructions. Ensure that eye flushing systems and safety showers are located close to the working place. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: white
Odor	: neutral
Odor Threshold	: not determined
pH	: 5,6 (20,8 °C) Concentration: 10 g/l
Melting point/freezing point	: not determined
Boiling point/boiling range	: not determined
Flash point	: > 100 °C

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Evaporation rate	:	not determined
Flammability (liquids)	:	Not classified as a flammability hazard
Self-ignition	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	Not available for this mixture.
Relative vapor density	:	not determined
Relative density	:	not determined
Density	:	1,11 g/cm <sup>3</sup> (20 °C)
Bulk density	:	No data available
Solubility(ies)		
Water solubility	:	dispersible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Not available for this mixture.
Autoignition temperature	:	No data available
Decomposition temperature	:	not determined
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	158,8 mm <sup>2</sup> /s ( 21,6 °C)
		151,2 mm <sup>2</sup> /s ( 42 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Molecular weight	:	Not applicable
Particle size	:	Not applicable

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### 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. Protect from frost, heat and sunlight. Heat, flames and sparks. Heating of the product will produce harmful and irritant vapours.
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

#### Acute toxicity

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

#### Product:

Acute oral toxicity	: LD50(Rat, female): 1.098 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	: LC50(Rat, male and female): > 2,14 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The component/mixture is minimally toxic after short term inhalation.  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 Assessment: The substance or mixture has no acute dermal toxicity  Assessment: The component/mixture is moderately toxic after single contact with skin. Remarks: Resolution no. 2075



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### Components:

#### **Bifenthrin:**

Acute oral toxicity : LD50 (Rat, male and female): 50,2 - 58,8 mg/kg  
Symptoms: Convulsions, Tremors

Acute inhalation toxicity : LC50 (Rat, female): 0,6 - 1,2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Tremors, Convulsions

LC50 (Rat, male): 1,10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Tremors, Fatality

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Remarks: no mortality

#### **Chlorantraniliprole:**

Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
  
LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Remarks: Information source: Internal study report

LD50 (Mouse, female): > 2.000 mg/kg  
Method: OECD Test Guideline 425  
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,1 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: Information source: Internal study report

LC50 (Rat, male and female): > 5,1 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

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LC50 (Rat, male and female): > 5,0 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: GB 15670-1995  
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  
Remarks: Information source: Internal study report

LD50 (Rat, male and female): > 5.000 mg/kg  
Method: GB 15670-1995  
GLP: yes  
Remarks: no mortality

LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: no mortality

### **glycerol:**

Acute oral toxicity : LD50 (Rat, female): 11.500 mg/kg

Acute inhalation toxicity : LC0 (Rat, male): 11 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Guinea pig, male and female): 56.750 mg/kg

### **D-Glucopyranose, oligomeric, C9-11-alkyl glycosides:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

### **ammonium sulphate:**

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 423

LD50 (Rat): 4.250 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat, male): 0,0035 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 433

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 434

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### Skin corrosion/irritation

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

#### Product:

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

#### Components:

##### **Bifenthrin:**

Species	:	Rabbit
Result	:	slight or no skin irritation.
GLP	:	yes

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	slight or no skin irritation.
GLP	:	yes

##### **Chlorantraniliprole:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	yes
Remarks	:	Information source: Internal study report

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

Species	:	Rabbit
Method	:	GB 15670-1995
Result	:	No skin irritation
GLP	:	yes

##### **glycerol:**

Species	:	Rabbit
Result	:	No skin irritation

##### **D-Glucopyranose, oligomeric, C9-11-alkyl glycosides:**

Species	:	Rabbit
Result	:	slight irritation

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### ammonium sulphate:

Species	: Rabbit
Exposure time	: 20 h
Method	: Draize Test
Result	: slight irritation

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: slight 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

### Components:

#### Bifenthrin:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Slight or no eye irritation
GLP	: yes

#### Chlorantraniliprole:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: No eye irritation
GLP	: yes
Remarks	: Information source: Internal study report

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

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

### glycerol:

Species	: Rabbit
Result	: No eye irritation

### D-Glucopyranose, oligomeric, C9-11-alkyl glycosides:

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Method : in vitro eye irritation test  
Result : Irreversible effects on the eye

### ammonium sulphate:

Species : Rabbit  
Result : slight irritation

### Respiratory or skin sensitization

#### Skin sensitization

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

#### Respiratory sensitization

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

#### Product:

Test Type : Local lymph node assay (LLNA)  
Species : mice  
Method : OECD Test Guideline 429  
Result : Not a skin sensitizer.

#### Components:

##### Bifenthrin:

Test Type : Maximization Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitization by skin contact.  
GLP : yes

##### Chlorantraniliprole:

Test Type : Maximization Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.  
GLP : yes  
Remarks : Information source: Internal study report

Test Type : Local lymph node assay (LLNA)  
Species : mice  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitization.

##### ammonium sulphate:

Test Type : Maximization Test  
Routes of exposure : Dermal  
Species : Guinea pig  
Result : Not a skin sensitizer.

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### Germ cell mutagenicity

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

#### Product:

Germ cell mutagenicity - Assessment : Contains no ingredient listed as a mutagen

#### Components:

##### **Bifenthrin:**

Genotoxicity in vitro : Test Type: gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative

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

Test Type: Mouse lymphoma assay  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Sex-linked Recessive Lethal Test  
Species: Drosophila melanogaster (vinegar fly)  
Result: negative

Test Type: unscheduled DNA synthesis assay  
Species: Rat  
Method: OECD Test Guideline 486  
Result: negative

##### **Chlorantraniliprole:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476  
Result: negative

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

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

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### glycerol:

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

### ammonium sulphate:

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

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

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

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male)  
Application Route: Intraperitoneal injection  
Exposure time: 4 d  
Result: negative

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

### Carcinogenicity

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

### Components:

#### Bifenthrin:

Species : Rat, female  
Application Route : Oral  
Exposure time : 2 Years  
NOAEL : 3 mg/kg bw/day  
Result : negative

Species : Mouse, male  
Application Route : Oral  
Exposure time : 18 month(s)  
NOAEL : 7,6 mg/kg bw/day  
Result : positive  
Symptoms : malignant tumors

#### Chlorantraniliprole:

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 2 Years  
NOAEL : 805 - 1.076 mg/kg bw/day  
Method : OECD Test Guideline 453

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Result : negative

Species : Mouse, male and female  
Application Route : Oral  
Exposure time : 18 month(s)  
NOAEL : 158 - 1.155 mg/kg bw/day  
Method : OECD Test Guideline 453  
Result : negative

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

### **glycerol:**

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

### **ammonium sulphate:**

Species : Rat, male  
Application Route : Oral  
Exposure time : 2 y  
Dose : 564, 1288 mg/kg food  
Method : OECD Test Guideline 453  
Result : negative

Species : Rat, female  
Application Route : Oral  
Exposure time : 2 y  
Dose : 649, 1371 mg/kg food  
Method : OECD Test Guideline 453  
Result : negative

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

### **Reproductive toxicity**

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

### **Product:**

Reproductive toxicity - Assessment : Contains no ingredient listed as toxic to reproduction

### **Components:**

#### **Bifenthrin:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Oral  
General Toxicity Parent: NOAEL: 3 mg/kg bw/day



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General Toxicity F1: NOAEL: 5 mg/kg bw/day  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 2,7 mg/kg bw/day  
Teratogenicity: NOAEL: 2,7 mg/kg bw/day  
Symptoms: Maternal effects.  
Result: No teratogenic effects.

Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 1 mg/kg bw/day  
Teratogenicity: NOAEL: 2 mg/kg bw/day  
Result: No teratogenic effects.

Species: Rat  
Application Route: Oral  
General Toxicity Maternal: LOAEL: 7,2 mg/kg bw/day  
Developmental Toxicity: LOAEL: 7,2 mg/kg bw/day  
Embryo-fetal toxicity.: NOEL: 9,0 mg/kg bw/day  
Method: OECD Test Guideline 426  
Result: Animal testing did not show any effects on fertility.,  
Some evidence of adverse effects on development, based on  
animal experiments.

### Chlorantraniliprole:

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
General Toxicity Parent: NOAEL: 20.000 ppm  
General Toxicity F1: NOAEL: 20.000 ppm  
Method: OECD Test Guideline 416  
Result: negative

Effects on fetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Oral  
Duration of Single Treatment: 6 - 20 Days  
General Toxicity Maternal: NOEL: 1.000 mg/kg bw/day  
Developmental Toxicity: NOEL: 1.000 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: negative

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

### glycerol:

Effects on fertility : Test Type: Two-generation study  
Species: Rat

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Application Route: Oral  
Result: negative

Effects on fetal development : Test Type: Two-generation study  
Species: Rat  
Application Route: Oral  
Result: negative

### **ammonium sulphate:**

Effects on fertility : Species: Rat  
Application Route: Oral  
Dose: 250, 750, 1500 mg/kg  
General Toxicity Parent: LOAEL: 250 mg/kg body weight  
Fertility: NOAEL: 1.500 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: No effects on fertility and early embryonic development were detected.

Effects on fetal development : Species: Rat  
Application Route: Oral  
Dose: 250, 750, 1500 mg/kg  
Developmental Toxicity: NOAEL: 1.500 mg/kg body weight  
Method: OECD Test Guideline 415  
Result: negative

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

### **STOT-single exposure**

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

#### **Product:**

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

#### **Components:**

##### **Bifenthrin:**

Target Organs : Central nervous system  
Assessment : Causes damage to organs.

##### **Chlorantraniliprole:**

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

### **STOT-repeated exposure**

Causes damage to organs (Central nervous system) through prolonged or repeated exposure.

#### **Product:**

Assessment : Causes damage to organs through prolonged or repeated

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exposure.

### Components:

#### **Bifenthrin:**

Target Organs	:	Central nervous system
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

#### **Chlorantraniliprole:**

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

#### **ammonium sulphate:**

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

### **Repeated dose toxicity**

### Components:

#### **Bifenthrin:**

Species	:	Rat, male and female
NOEL	:	100 ppm
Application Route	:	Oral - feed
Exposure time	:	90 d
Remarks	:	No toxicologically significant effects were found.

Species	:	Dog, male and female
NOEL	:	2,5 mg/kg bw/day
Application Route	:	Oral - feed
Exposure time	:	13 w
Symptoms	:	Tremors

#### **Chlorantraniliprole:**

Species	:	Rat, male and female
NOEL	:	1188 - 1526 mg/kg
Application Route	:	Oral
Exposure time	:	90 Days
Method	:	OECD Test Guideline 408

#### **glycerol:**

Species	:	Rat
LOAEL	:	1 mg/kg
Application Route	:	Inhalation
Exposure time	:	14 d
Dose	:	0, 1, 1.93, 3.91 mg/L
Symptoms	:	respiratory tract irritation, Fatality

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Species	: Rat
NOAEL	: 0,165 mg/l
LOAEL	: 0,662 mg/l
Application Route	: Inhalation
Exposure time	: 13 w
Dose	: 0, 0.033, 0.165, 0.662 mg/L
Symptoms	: respiratory tract irritation

### ammonium sulphate:

Species	: Rat, female
NOAEL	: 284 mg/kg
Application Route	: Oral
Exposure time	: 1 y
Dose	: 48, 284, 1490 mg/kg
Method	: OECD Test Guideline 453
Symptoms	: Liver effects, kidney effects

Species	: Rat, male
NOAEL	: 256 mg/kg
Application Route	: Oral
Exposure time	: 1 y
Dose	: 42, 256, 1527 mg/kg
Method	: OECD Test Guideline 453
Symptoms	: Liver effects, kidney effects

Species	: Rat
NOAEC	: 0,3 mg/l
Application Route	: Inhalation
Exposure time	: 14 d
Number of exposures	: 8 h/d
Dose	: 0.3 mg/L
Symptoms	: No adverse effects.

### Aspiration toxicity

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

### Components:

#### Bifenthrin:

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

#### Chlorantraniliprole:

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

### Further information

#### Product:

Remarks	: On contact, the active ingredient can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia), which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aero-
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sol or transfer from contaminated gloves. The effect is transient, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to soil dwelling organisms	:	NOEC: 1.000 mg/kg Exposure time: 14 d Species: Eisenia andrei (red worm) Method: OECD Test Guideline 207
		LC50: > 1.000 mg/kg Exposure time: 14 d Species: Eisenia andrei (red worm) Method: OECD Test Guideline 207
Toxicity to terrestrial organisms	:	LD50: > 2.250 mg/kg Species: Colinus virginianus (Bobwhite quail) Method: OECD Test Guideline 223
		LD50: 0.49 µg/bee Exposure time: 48 h End point: Acute contact toxicity Species: Apis mellifera (bees) Method: OECD Test Guideline 214
		LD50: 6.66 µg/bee Exposure time: 48 h End point: Acute oral toxicity Species: Apis mellifera (bees) Method: OECD Test Guideline 213

### Ecotoxicology Assessment

Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.

#### Components:

##### **Bifenthrin:**

Toxicity to fish	:	LC50 (Salmo gairdneri): 0,00015 mg/l Exposure time: 96 h Test Type: flow-through test
		LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,00035 mg/l Exposure time: 96 h Test Type: flow-through test

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LC50 (Oncorhynchus mykiss (rainbow trout)): 0,000256 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

LC50 (Pimephales promelas (fathead minnow)): 0,000234 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 0,00011 mg/l  
Exposure time: 48 h

LC50 (Daphnia): 0,0016 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 0,822 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1.000

Toxicity to fish (Chronic toxicity) : NOEC: 0,00012 mg/l  
Exposure time: 21 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0013 µg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

NOEC: 0,00095 µg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 100.000

Toxicity to soil dwelling organisms : LD50: > 16 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

Method: OECD Test Guideline 216  
Remarks: No significant adverse effect on Nitrogen mineralization.

Toxicity to terrestrial organisms : LD50: 1.800 mg/kg  
Species: Colinus virginianus (Bobwhite quail)

LD50: > 2.150 mg/kg

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Species: *Anas platyrhynchos* (Mallard duck)

LD50: 0,1 - 0,35 µg/bee  
Exposure time: 24 h  
End point: Acute oral toxicity  
Species: *Apis mellifera* (bees)  
Method: OECD Test Guideline 213

LD50: 0,1 - 0,3 µg/bee  
Exposure time: 24 h  
End point: Acute contact toxicity  
Species: *Apis mellifera* (bees)  
Method: OECD Test Guideline 214

### Chlorantraniliprole:

Toxicity to fish	:	LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 13,8 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 Remarks: Information source: Internal study report
		LC50 ( <i>Lepomis macrochirus</i> (Bluegill sunfish)): > 15,1 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes Remarks: Information source: Internal study report
		LC50 ( <i>Cyprinodon</i> sp. (minnow)): > 12 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 ( <i>Daphnia magna</i> (Water flea)): 0,0116 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
		LC50 ( <i>Hyalella azteca</i> (Amphipod)): 0,26 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
		LC50 ( <i>Ceriodaphnia dubia</i> (water flea)): 0,0067 - 0,011 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): > 2 mg/l Exposure time: 120 h
		NOEC ( <i>Lemna gibba</i> (duckweed)): > 2 mg/l

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End point: Biomass  
Exposure time: 14 d  
Test Type: static test

ErC50 ( *Selenastrum capricornutum* (green algae)): > 2 mg/l  
Exposure time: 72 h

NOEC ( *Anabaena flos-aquae* (cyanobacterium)): > 2 mg/l  
End point: Growth rate  
Exposure time: 120 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

NOEC ( *Skeletonema costatum* (Diatom)): > 14,6 mg/l  
End point: Growth rate  
Exposure time: 120 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

NOEC ( *Navicula pelliculosa* (Diatom)): > 15,1 mg/l  
End point: Growth rate  
Exposure time: 120 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 1,28 mg/l  
Exposure time: 36 d  
Species: *Cyprinodon variegatus* (sheepshead minnow)

NOEC: 0,110 mg/l  
Exposure time: 28 d  
Species: *Oncorhynchus mykiss* (rainbow trout)  
Method: OECD Test Guideline 210  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,00447 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Method: US EPA Test Guideline OPPTS 850.1300  
GLP: yes

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : LC50: > 1.000 mg/kg  
Exposure time: 14 d  
Species: *Eisenia fetida* (earthworms)



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Method: OECD Test Guideline 207  
GLP: yes

Remarks: No significant adverse effect on Nitrogen mineralization.  
No significant adverse effect on Carbon mineralization.

NOEC: 100 mg/kg dry weight (d.w.)  
Exposure time: 16 d  
Species: *Hypoaspis aculeifer*  
Method: OECD Test Guideline 207

EC50: >100 mg/kg dry weight (d.w.)  
Exposure time: 16 d  
Species: *Hypoaspis aculeifer*  
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50: > 4,0 µg/bee  
Exposure time: 72 h  
End point: Acute contact toxicity  
Species: *Apis mellifera* (bees)  
Remarks: Active substance dissolved in acetone

LD50: > 0,005 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: *Apis mellifera* (bees)  
Remarks: Active substance dissolved in water

LD50: > 104,1 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: *Apis mellifera* (bees)  
Remarks: Active substance dissolved in acetone

LD50: > 0,0274 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: *Apis mellifera* (bees)  
Remarks: Active substance dissolved in water

LD50: > 2.250 mg/kg  
Species: *Poephila guttata* (zebra finch)

### glycerol:

Toxicity to fish : LC50 (Fish): 885 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 1.955 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (*Scenedesmus capricornutum* (fresh water algae)):

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plants 2.900 mg/l  
Exposure time: 192 h

Toxicity to microorganisms : EC10 (Pseudomonas putida): 10.000 mg/l  
Exposure time: 16 h

### **D-Glucopyranose, oligomeric, C9-11-alkyl glycosides:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 2,95 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Crustaceans): 26,2 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 ( Skeletonema costatum (Diatom)): 9,05 mg/l  
plants Exposure time: 72 h  
Method: ISO 10253

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 560 mg/l

### **ammonium sulphate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 53 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 169 mg/l  
aquatic invertebrates Exposure time: 48 h

EC50 (Daphnia): 121,7 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic : EC50 ( Chlorella vulgaris (Fresh water algae)): 2.700 mg/l  
plants Exposure time: 18 h

EC50 ( Chlorella vulgaris (Fresh water algae)): 1.605 mg/l  
Exposure time: 5 d

Toxicity to microorganisms : EC50 (activated sludge): 1.618 mg/l  
Exposure time: 0,5 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox- : EC10: 5,29 mg/l  
icity) Exposure time: 30 d  
Species: Lepomis macrochirus (Bluegill sunfish)  
Test Type: flow-through test

Toxicity to daphnia and other : EC10: 3,12 mg/l  
aquatic invertebrates (Chron- Exposure time: 70 d  
ic toxicity) Species: Hyalella azteca (Amphipod)  
Test Type: semi-static test

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### Persistence and degradability

#### Product:

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

#### Components:

##### **Bifenthrin:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life (DT50): 2,2 d  
Hydrolysis: at 60 °C

Degradation half life (DT50): 15,6 d  
Hydrolysis: at 40 °C

##### **Chlorantraniliprole:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life (DT50): 10 d (25 °C) pH: 9

Degradation half life (DT50): 0,3 d (50 °C) pH: 9

Degradation half life (DT50): > 31 d pH: 5

##### **glycerol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 94 %  
Exposure time: 24 h

##### **D-Glucopyranose, oligomeric, C9-11-alkyl glycosides:**

Biodegradability : Result: Readily biodegradable.

##### **ammonium sulphate:**

Biodegradability : Result: Not biodegradable

### Bioaccumulative potential

#### Product:

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

Remarks: No data available

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### **Components:**

#### **Bifenthrin:**

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)  
Bioconcentration factor (BCF): 1.709  
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.  
See section 9 for octanol-water partition coefficient.

Partition coefficient: n-octanol/water : log Pow: 6,6

#### **Chlorantraniliprole:**

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)  
Bioconcentration factor (BCF): 14  
Method: OECD Test Guideline 305  
GLP: yes  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2,77 (20 °C)  
pH: 4

log Pow: 2,86 (20 °C)  
pH: 7

log Pow: 2,80 (20 °C)  
pH: 9

#### **glycerol:**

Partition coefficient: n-octanol/water : log Pow: -1,75 (25 °C)  
pH: 7,4

#### **D-Glucopyranose, oligomeric, C9-11-alkyl glycosides:**

Partition coefficient: n-octanol/water : log Pow: 3,7  
Method: OECD Test Guideline 117

#### **ammonium sulphate:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -5,1 (25 °C)

log Pow: 0,48 (25 °C)

### **Mobility in soil**

#### **Product:**

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

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### Components:

#### **Bifenthrin:**

Distribution among environmental compartments : Koc: 236610 ml/g, log Koc: 5,37  
Remarks: immobile

Stability in soil :

#### **Chlorantraniliprole:**

Distribution among environmental compartments : Koc: 362 ml/g, log Koc: 2,55  
Remarks: Mobile in soils

Stability in soil : Remarks: Very persistent in soil.

### **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.

### Components:

#### **Chlorantraniliprole:**

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.

### **Global warming potential**

Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)

### Components:

#### **octamethylcyclotetrasiloxane [D4]:**

20-year global warming potential: 2,66  
100-year global warming potential: 0,739  
500-year global warming potential: 0,211  
Atmospheric lifetime: 0,027 yr  
Radiative efficiency: 0,12 Wm<sup>2</sup>ppb  
Further information: Miscellaneous compounds

#### **decamethylcyclopentasiloxane:**

20-year global warming potential: 1,04  
100-year global warming potential: 0,289  
500-year global warming potential: 0,082  
Atmospheric lifetime: 0,016 yr  
Radiative efficiency: 0,098 Wm<sup>2</sup>ppb

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Further information: Miscellaneous compounds

### dodecamethylcyclohexasiloxane:

20-year global warming potential: 0,51

100-year global warming potential: 0,142

500-year global warming potential: 0,04

Atmospheric lifetime: 0,011 yr

Radiative efficiency: 0,086 Wm2ppb

Further information: Miscellaneous compounds

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- |                        |   |   |
|------------------------|---|---|
| Waste from residues    | : | The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>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 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. (Bifenthrin, Chlorantraniliprole) |
| Class                | : | 9   |
| Packing group        | : | III   |
| Labels               | : | 9   |

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Environmentally hazardous : yes

### IATA-DGR

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

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. (Bifenthrin, Chlorantraniliprole)

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.

## 15. REGULATORY INFORMATION

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

Control Act of precursor chemicals and controlled products : Not applicable

### The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory  
TSCA : Product contains substance(s) not listed on TSCA inventory.  
AIIC : Not in compliance with the inventory

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DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.

Bifenthrin  
Chlorantraniliprole

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

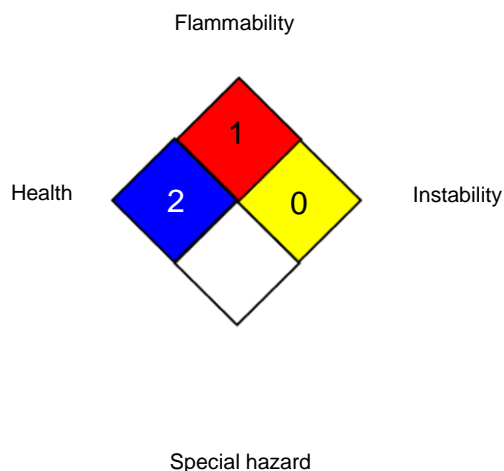
**16. OTHER INFORMATION**

Revision Date : 24.02.2025

Date format : dd.mm.yyyy

**Further information**

**NFPA:**



**HMIS® IV:**

HEALTH	*	3
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**

PE OEL : Peru. Regulation adopting Limit Values for Chemical Agents in



# SAFETY DATA SHEET

according to the Globally Harmonized System



## PRESIPEL®

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	24.02.2025	50000153	Date of first issue: 24.02.2025

the Working Environment.

PE OEL / TWA : 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 - Transportation 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

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PE / EN