

# SAFETY DATA SHEET

according to the Globally Harmonized System



## CORAGEN® 20 SC

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: -           |
| 1.1     | 04.03.2025     | 50000015    | Date of first issue: 04.03.2025 |

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### 1. IDENTIFICATION

Product name : CORAGEN® 20 SC

#### Manufacturer or supplier's details

Company : FMC QUIMICA DO BRASIL LTDA.

Address : Av. Antonio Carlos Guillaumon,  
25 Distrito Industrial III, 38001-970,  
Uberaba-MG Brasil  
Tel: (34) 3316.8010

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

Emergency telephone : +507-8322475  
911

Medical Emergency Number : Costa Rica - National Center of Poisoning - (506) 2223-1028;  
800-INTOXICA  
Dominican Republic: DOMINICAN REPUBLIC - Center for  
Drug Information and Poisoning - (809) 562-6601 Ext. 1801  
El Salvador - Rosales National Hospital - (503) 2231-9262  
Guatemala - Center of Toxicological Information and Assis-  
tance - (502) 2251-3560 / 2232-0735  
Honduras - Hospital School - (504) 232-6105  
Nicaragua - National Center of Toxicology - (505) 2289-4700  
ext. 1294 cel. 8755-0983  
Panama Center of Research and Information on Medications  
and Toxicology (507) 523-4948

#### 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

Short-term (acute) aquatic hazard : Category 1

#### GHS label elements

Hazard pictograms :



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Signal Word : WARNING

Hazard Statements : H400 Very toxic to aquatic life.

Precautionary Statements : **Prevention:**  
P273 Avoid release to the environment.  
**Response:**  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

| Chemical name       | CAS-No.     | Concentration (% w/w) |
|---------------------|-------------|-----------------------|
| Chlorantraniliprole | 500008-45-7 | >= 10 - < 20          |

## 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.

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Most important symptoms and effects, both acute and delayed : None known.

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.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

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

Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Bromine compounds  
Chlorine compounds  
Hydrogen cyanide  
Hydrogen chloride

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.  
Do not touch or walk through the spilled material.  
If it can be safely done, stop the leak.  
Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

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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.  
Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

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

Advice on safe handling : For personal protection see section 8.  
Avoid formation of respirable particles.  
Dispose of rinse water in accordance with local and national regulations.  
Smoking, eating and drinking should be prohibited in the application area.

Conditions for safe storage : Store in a place accessible by authorized persons only.  
Store in original container.  
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 unauthorized 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.

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

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

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- |                          |  |
|--------------------------|--|
| 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<br>Tightly fitting safety goggles  |
| Skin and body protection | : Impervious clothing<br>Long sleeved clothing.<br>Footwear protecting against chemicals<br>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.<br>Always have on hand a first-aid kit, together with proper instructions.<br>Wear suitable protective equipment.<br>When using do not eat, drink or smoke.<br>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.<br>This product should be used only by all personnel thoroughly trained to handle it.<br>Do not inhale aerosol.<br>Wash hands before breaks and immediately after handling the product.<br>When using do not smoke.<br>When using do not eat or drink.<br>Remove and wash contaminated clothing and gloves, including the inside, before re-use.<br>Contaminated work clothing should not be allowed out of the workplace. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- |                |                       |
|----------------|-----------------------|
| Physical state | : liquid              |
| Form           | : semi-viscous liquid |
| Color          | : white               |
| Odor           | : alcohol-like        |

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|  |   |  |
|--|---|--|
| Odor Threshold                                   | : | not determined                                     |
| pH   | : | 7.8<br>Concentration: 1 %<br>Method: CIPAC MT 75.3 |
| Boiling point/boiling range                      | : | not determined                                     |
| Flash point                                      | : | > 100 °C<br><br>No flash up to boiling point.      |
| Evaporation rate                                 | : | Not available for this mixture.                    |
| Flammability (solid, gas)                        | : | The product is not flammable.                      |
| Self-ignition                                    | : | not auto-flammable                                 |
| 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 available for this mixture.                    |
| Relative density                                 | : | 1.08 - 1.10  |
| Density  | : | 1.094 g/cm <sup>3</sup> (20 °C)                    |
| Solubility(ies)                                  |   |  |
| Water solubility                                 | : | No data available                                  |
| Solubility in other solvents                     | : | slightly soluble                                   |
| Partition coefficient: n-octanol/water           | : | Not available for this mixture.                    |
| Autoignition temperature                         | : | No data available                                  |
| Viscosity  |   |  |
| Viscosity, dynamic                               | : | 583 mPa.s<br>30 rpm                                |
| Viscosity, kinematic                             | : | 367 - 734 mm <sup>2</sup> /s<br>30 rpm             |
| Explosive properties                             | : | Not explosive                                      |

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|                      |   |                |
|----------------------|---|----------------|
| Oxidizing properties | : | Non-oxidizing  |
| 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.  |
| Possibility of hazardous reactions | : | No decomposition if stored and applied as directed.  |
| Conditions to avoid                | : | Avoid formation of aerosol.<br>Heat, flames and sparks.<br>Protect from frost, heat and sunlight.<br>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.<br>No hazardous decomposition products are known.   |

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

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

#### Product:

|                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50(Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 425<br>GLP: yes<br>Assessment: The substance or mixture has no acute oral toxicity  |
| Acute inhalation toxicity | : | LC50(Rat): > 2 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>GLP: yes<br>Assessment: The substance or mixture has no acute inhalation toxicity<br>Remarks: Highest attainable concentration. |

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no mortality

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

### Components:

#### **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

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



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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

### Skin corrosion/irritation

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

#### Product:

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

#### Components:

##### **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

### 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 : No eye irritation  
GLP : yes

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### Components:

#### **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                         |

### **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   |
| Assessment | : | Not a skin sensitizer.                                   |
| Method     | : | OECD Test Guideline 429                                  |
| Result     | : | Animal test did not cause sensitization by skin contact. |
| GLP        | : | yes  |

### Components:

#### **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. |

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### Germ cell mutagenicity

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

#### Product:

|                       |   |
|-----------------------|---|
| Genotoxicity in vitro | : Test Type: Ames test<br>Method: OECD Test Guideline 471<br>Result: negative                           |
| Genotoxicity in vivo  | : Test Type: Micronucleus test<br>Species: Mouse<br>Method: OECD Test Guideline 474<br>Result: negative |

#### Components:

##### **Chlorantraniliprole:**

|                                     |  |
|-------------------------------------|--|
| Genotoxicity in vitro               | : Test Type: reverse mutation assay<br>Metabolic activation: with and without metabolic activation<br>Result: negative<br><br>Test Type: In vitro mammalian cell gene mutation test<br>Test system: Chinese hamster ovary cells<br>Method: OECD Test Guideline 476<br>Result: negative |
| Genotoxicity in vivo                | : Test Type: Micronucleus test<br>Species: Mouse<br>Method: OECD Test Guideline 474<br>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:

##### **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  |
| 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                 |

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

### Reproductive toxicity

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

#### Components:

##### Chlorantraniliprole:

|                                    |  |
|------------------------------------|--|
| Effects on fertility               | : Test Type: Two-generation study<br>Species: Rat, male and female<br>Application Route: Oral<br>General Toxicity Parent: NOAEL: 20,000 ppm<br>General Toxicity F1: NOAEL: 20,000 ppm<br>Method: OECD Test Guideline 416<br>Result: negative                                     |
| Effects on fetal development       | : Test Type: Pre-natal<br>Species: Rat<br>Application Route: Oral<br>Duration of Single Treatment: 6 - 20 Days<br>General Toxicity Maternal: NOEL: 1,000 mg/kg bw/day<br>Developmental Toxicity: NOEL: 1,000 mg/kg bw/day<br>Method: OECD Test Guideline 414<br>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.

#### Components:

##### Chlorantraniliprole:

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

### STOT-repeated exposure

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

#### Components:

##### Chlorantraniliprole:

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

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### Repeated dose toxicity

#### Components:

##### **Chlorantraniliprole:**

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

### Aspiration toxicity

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

#### Components:

##### **Chlorantraniliprole:**

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

### Further information

#### Product:

Remarks : No data available

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

|   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 (Lepomis macrochirus (Bluegill sunfish)): > 9.9 mg/l<br>Exposure time: 96 h<br><br>LC50 (Danio rerio (zebra fish)): , >1.6 mg a.i./L<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.035 mg/l<br>Exposure time: 48 h<br><br>EC50 (Daphnia magna (Water flea)): 8.2 µg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202                   |
| Toxicity to algae/aquatic plants                    | : | NOEC (Pseudokirchneriella subcapitata (green algae)): 20 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201   |

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ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 20 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to soil dwelling organisms : NOEC: 1,000 mg/kg  
Exposure time: 28 d  
Species: *Eisenia andrei* (red worm)  
Method: OECD Test Guideline 222

LC50: > 1,000 mg/kg  
Exposure time: 28 d  
Species: *Eisenia andrei* (red worm)  
Method: OECD Test Guideline 222

Toxicity to terrestrial organisms : LD50: > 0.1141 mg/kg  
Exposure time: 2 d  
Species: *Apis mellifera* (bees)  
Remarks: Oral

LD50: > 0.100 mg/kg  
Exposure time: 2 d  
Species: *Apis mellifera* (bees)  
Remarks: Contact

LD50: >= 109.91 µg a.i./bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: *Apis mellifera* L.  
Method: OECD Test Guideline 213

NOEL: >= 109.91 µg a.i./bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: *Apis mellifera* L.  
Method: OECD Test Guideline 213

LD50: >= 100 µg a.i./bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: *Apis mellifera* L.  
Method: OECD Test Guideline 214

NOEL: >= 100 µg a.i./bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: *Apis mellifera* L.  
Method: OECD Test Guideline 214

NOEC: 1,726 mg/kg  
Exposure time: 5 d  
Species: *Colinus virginianus* (Bobwhite quail)

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Method: US EPA Test Guideline OPP 71-2

LC50: > 1,726 mg/kg

Exposure time: 5 d

Species: *Colinus virginianus* (Bobwhite quail)

Method: US EPA Test Guideline OPP 71-2

### Components:

#### **Chlorantraniliprole:**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (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 (*Lepomis macrochirus* (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 (*Cyprinodon* sp. (minnow)): > 12 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.0116 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

LC50 (*Hyalella azteca* (Amphipod)): 0.26 mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

LC50 (*Ceriodaphnia dubia* (water flea)): 0.0067 - 0.011 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 2 mg/l  
Exposure time: 120 h

NOEC (*Lemna gibba* (duckweed)): > 2 mg/l

End point: Biomass

Exposure time: 14 d

Test Type: static test

ErC50 (*Selenastrum capricornutum* (green algae)): > 2 mg/l

Exposure time: 72 h

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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)  
Method: OECD Test Guideline 207  
GLP: yes

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



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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)

### Persistence and degradability

#### Components:

#### **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

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### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Does not bioaccumulate.  
Estimation based on data obtained on active ingredient.

Remarks: No data available

#### Components:

##### **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

### Mobility in soil

#### Components:

##### **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 : See product label for additional application instructions relating to environmental precautions.

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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life.

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### 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.

## 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 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.  
(Chlorantraniliprole)  
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.  
(Chlorantraniliprole)  
Class : 9

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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. (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

List of Precursors and Controlled Chemicals. : 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  
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

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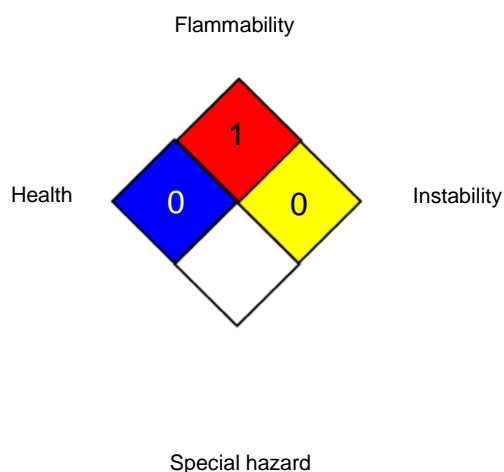
TECI : Not in compliance with the inventory

### 16. OTHER INFORMATION

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#### Further information

##### NFPA:



##### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | / | 0 |
| 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

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;

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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

### Disclaimer

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