

# SAFETY DATA SHEET

## CIRCADEN® 200 SC



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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** CIRCADEN® 200 SC

**Other means of identification**

**Product code** 50000117

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Insecticide  
stance/Mixture

Recommended restrictions : Use as recommended by the label.  
on use

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

**Supplier Address**

FMC Chemicals (Pty) Ltd  
Company Registration No.: 1988/001451/07  
West End Office Park, Building C  
Cnr. West Ave & Hall Street  
Centurion  
0014  
South Africa  
E-mail address: SDS-Info@fmc.com

**Distributor address:**

Polachem Investments (Private) Limited  
12 Connaught Road  
Avondale, Harare, Zimbabwe

#### 1.4 Emergency telephone

For leak, fire, spill or accident emergencies, call:  
South Africa: 080-001-4676 (CHEMTREC)

Medical emergency:  
DaTIS (Drug and Toxicology Information Service)  
+263 24 2933452 or  
+263 24 2791631 - 11 extension 2172 (Business hours)  
E-Mail: datis@medsch.uz.ac.zw, datis.zim23@gmail.com,  
datiszim@gmail.com

Griffon Poison Information Centre (24 hrs): +27-(0)-82-446-8946

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2	H319: Causes serious eye irritation.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : WARNING

Hazard Statements : H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements :

**Prevention:**  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P391 Collect spillage.

**Disposal:**  
P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

#### Additional Labeling

EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Cyantraniliprole	736994-63-1	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 10 - < 20
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9 613-167-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	>= 0.0002 - < 0.0015

For explanation of abbreviations see section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

- |                            |   |                                                                                                                                                                                                                                                                                                                         |
|----------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice             | : | Move out of dangerous area.<br>Show this material safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.                                                                                                                                                                                 |
| Protection of first-aiders | : | Avoid inhalation, ingestion and contact with skin and eyes.                                                                                                                                                                                                                                                             |
| If inhaled                 | : | If unconscious, place in recovery position and seek medical advice.<br>If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance. |
| In case of skin contact    | : | If on clothes, remove clothes.<br>If on skin, rinse well with water.<br>Wash off with soap and plenty of water.<br>Get medical attention immediately if irritation develops and persists.                                                                                                                               |
| In case of eye contact     | : | Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                                                                                                                                     |
| If swallowed               | : | Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Do not induce vomiting without medical advice.                                                                                         |

### 4.2 Most important symptoms and effects, both acute and delayed

- |       |   |                                |
|-------|---|--------------------------------|
| Risks | : | Causes serious eye irritation. |
|-------|---|--------------------------------|

### 4.3 Indication of any immediate medical attention and special treatment needed

- |           |   |                                                                                         |
|-----------|---|-----------------------------------------------------------------------------------------|
| Treatment | : | Treat symptomatically.<br>Immediate medical attention is required in case of ingestion. |
|-----------|---|-----------------------------------------------------------------------------------------|
- 

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                              |   |                                                                                                                                                            |
|------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media | : | Dry chemical, CO2, water spray or regular foam.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

## 5.2 Special hazards arising from the substance or mixture

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.  
Bromine compounds  
Nitrogen oxides (NOx)  
Carbon oxides  
Chlorinated compounds  
Hydrogen chloride  
Hydrogen cyanide

## 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

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.

Further information : 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.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Evacuate personnel to safe areas.  
Do not touch or walk through the spilled material.  
If it can be safely done, stop the leak.  
Ensure adequate ventilation.

### 6.2 Environmental precautions

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.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Never return spills in original containers for re-use.  
Collect as much of the spill as possible with a suitable absor-

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bent material.  
Pick up and transfer to properly labeled containers.  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- |                                                 |   |                                                                                                                                                                                                                                                                        |
|-------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling                         | : | For personal protection see section 8.<br>Avoid formation of respirable particles.<br>Dispose of rinse water in accordance with local and national regulations.<br>Smoking, eating and drinking should be prohibited in the application area.                          |
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection.                                                                                                                                                                                                                        |
| 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. |

#### 7.2 Conditions for safe storage, including any incompatibilities

- |                                               |   |                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Requirements for storage areas and containers | : | 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     | : | 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. |
| Further information on storage stability      | : | No decomposition if stored and applied as directed.                                                                                                                                                                                                                                                                                                               |

#### 7.3 Specific end use(s)

- |                 |   |                                                                                                                 |
|-----------------|---|-----------------------------------------------------------------------------------------------------------------|
| Specific use(s) | : | Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities. |
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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Routes of exposure	Potential health effects	Value
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Workers	Inhalation	Long-term local effects	0.02 mg/m3
	Workers	Inhalation	Acute local effects	0.04 mg/m3
	Consumers	Inhalation	Long-term local effects	0.02 mg/m3
	Consumers	Inhalation	Acute local effects	0.04 mg/m3
	Consumers	Oral	Long-term systemic effects	0.09 mg/kg
	Consumers	Oral	Acute systemic effects	0.11 mg/kg

##### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Fresh water	0.00339 mg/l
	Intermittent use/release	0.00339 mg/l
	Sea water	0.00339 mg/l
	Sewage treatment plant	0.23 mg/l
	Fresh water sediment	0.027 mg/kg
	Sea sediment	0.027 mg/kg

#### 8.2 Exposure controls

##### Personal protective equipment

- Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles
- 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.
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of dust or aerosol formation use respirator with an

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approved filter.

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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Color	: off-white
Odor	: odorless
Odor Threshold	: No data available
pH	: 4.42 - 4.46
	Concentration: 1 %
	Method: CIPAC MT 75.3
	(1% solution in water)
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 98 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
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
Density	: 1.08 g/cm <sup>3</sup>
	Method: Regulation (EC) No. 440/2008, Annex, A.3
Solubility(ies)	
Water solubility	: No data available
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	: 1,916 mPa.s (20 °C)



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Method: CIPAC MT 192

30 rpm  
1,588 mPa.s (40 °C)  
Method: CIPAC MT 192

Viscosity, kinematic	: 30 rpm
Explosive properties	: No data available
Oxidizing properties	: Not explosive Non-oxidizing

### 9.2 Other information

Surface tension	: 33.3 mN/m, 22.5 °C
Molecular weight	: Not applicable
Particle size	: No data available
Particle Size Distribution	: D50 = 1.37 µm D90 = 3.48 µm Measurement method: CIPAC MT 187
Self-ignition	: > 800 °C No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: No decomposition if stored and applied as directed.
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### 10.4 Conditions to avoid

Conditions to avoid	: Avoid extreme temperatures. Avoid formation of aerosol. Protect from frost, heat and sunlight. Heating of the mixture may evolve harmful and irritant vapours.
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### 10.5 Incompatible materials

Materials to avoid	: Avoid strong acids, bases, and oxidizers.
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### 10.6 Hazardous decomposition products

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

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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

#### Components:

##### **Cyantraniliprole:**

- |                           |   |                                                                                                                                                                                                                                              |
|---------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Mouse, female): > 5,000 mg/kg<br>Method: OECD Test Guideline 425<br>GLP: yes<br>Assessment: The substance or mixture has no acute oral toxicity<br>Remarks: no mortality                                                               |
|                           |   | LD50 (Rat, female): > 5,000 mg/kg<br>Method: OECD Test Guideline 425<br>GLP: yes<br>Assessment: The substance or mixture has no acute oral toxicity<br>Remarks: no mortality                                                                 |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): > 5.2 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: no mortality |
| Acute dermal toxicity     | : | LD50 (Rat, male and female): > 5,000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes<br>Assessment: The substance or mixture has no acute dermal toxicity<br>Remarks: no mortality                                                      |

#### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

- |                           |   |                                                                                                                                                                                  |
|---------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 Oral (Rat, female): 200 mg/kg<br>Method: OECD Test Guideline 423                                                                                                            |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): 0.33 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Assessment: Corrosive to the respiratory tract. |
| Acute dermal toxicity     | : | LD50 (Rabbit, male): 87 mg/kg                                                                                                                                                    |

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**Skin corrosion/irritation**

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

**Components:****Cyantraniliprole:**

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

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Method	: OECD Test Guideline 404
Result	: Corrosive after 1 to 4 hours of exposure

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Assessment	: Irritating to eyes.
Remarks	: The GHS classification specified by the authority

**Components:****Cyantraniliprole:**

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

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Result	: Irreversible effects on the eye
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**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.

**Components:****Cyantraniliprole:**

Test Type	: Local lymph node test
Routes of exposure	: Dermal
Species	: Mouse

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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

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Result : The product is a skin sensitizer, sub-category 1A.

**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

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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.

### Carcinogenicity

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

#### Components:

##### Cyantraniliprole:

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

Species : Rat, female  
Application Route : Ingestion  
Exposure time : 2 Years  
NOAEL : 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

### 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

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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

### 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.

### STOT-repeated exposure

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

#### Components:

##### **Cyantraniliprole:**

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

### Repeated dose toxicity

#### Components:

##### **Cyantraniliprole:**

Species : Rat  
NOAEL : > 1,000 mg/kg  
Application Route : Oral  
Exposure time : 28 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

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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  
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.

### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Species : Dog  
NOAEL : 22 mg/kg  
Application Route : Oral

Species : Rat

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NOAEL	:	16.3 - 24.7 mg/kg
Application Route	:	Skin contact
Species	:	Rat
NOAEL	:	2.36 mg/m <sup>3</sup>
Application Route	:	Inhalation

### 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

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): ca. 39 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.209 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Information given is based on tests on the mixture itself.
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 66.3 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  ErC50 (Raphidocelis subcapitata (freshwater green alga)): 77 mg/l Exposure time: 72 h Remarks: Information given is based on tests on the mixture



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itself.

EyC50 (Raphidocelis subcapitata (freshwater green alga)): 39 mg/l

Exposure time: 72 h

Remarks: Information given is based on tests on the mixture itself.

Toxicity to soil dwelling organisms

: > 1,000 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

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: 9.5 µg/bee  
Exposure time: 72 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 214

LD50: 2.45 µg/bee  
Exposure time: 72 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 213

LR50: 0.143 g a.s./h  
Exposure time: 48 h  
Species: Aphidius rhopalosiphi

NOEL: 0.11 µg/bee  
Exposure time: 72 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 213  
Remarks: Active ingredient

NOEL: < 1 µg/bee  
Exposure time: 72 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 213  
Remarks: Active ingredient

LD50: > 2020 mg/kg bw/day  
End point: Acute oral toxicity  
Species: Colinus virginianus (Bobwhite quail)  
Method: EPA OPP 71-1

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Remarks: Active ingredient

NOEL: 2020 mg/kg bw/day  
End point: Acute oral toxicity  
Species: *Colinus virginianus* (Bobwhite quail)  
Method: EPA OPP 71-1  
Remarks: Active ingredient

### **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 toxicity)	:	NOEC: 0.00656 mg/l End point: Growth Exposure time: 21 d

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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

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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

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.19 mg/l  
Exposure time: 96 h  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.16 mg/l  
Exposure time: 48 h

NOEC (Daphnia magna (Water flea)): 0.1 mg/l  
Exposure time: 21 d

EC50 (Daphnia magna (Water flea)): 0.18 mg/l  
Exposure time: 21 d

Toxicity to algae/aquatic plants : NOEC (Skeletonema costatum (marine diatom)): 0.00049 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 201

NOEC (Skeletonema costatum (marine diatom)): 0.019 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50 (Skeletonema costatum (marine diatom)): 0.037 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 100

Toxicity to microorganisms : NOEC (activated sludge): 0.91 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
GLP: yes

EC50 (activated sludge): 4.5 mg/l  
Exposure time: 3 h

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Method: OECD Test Guideline 209  
GLP: yes

Toxicity to fish (Chronic toxicity) : NOEC: 0.02 mg/l  
Exposure time: 35 d  
Species: Danio rerio (zebra fish)  
Method: OECD Test Guideline 210  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

Chronic Toxicity Value: 0.18 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 100

### 12.2 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

##### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Biodegradability : Result: Readily biodegradable.

### 12.3 Bioaccumulative potential

#### **Product:**

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

Remarks: No data available

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### 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

#### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Bioaccumulation : Exposure time: 28 d  
Bioconcentration factor (BCF): < 54  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : Pow: 0.75

### 12.4 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

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

#### Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to

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REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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:

#### **Cyantraniliprole:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Triple rinse containers.  
Do not re-use empty containers.  
Packaging that is not properly emptied must be disposed of as the unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport information

### 14.1 UN number

UNRTDG : UN 3082  
IMDG : UN 3082  
IATA : UN 3082

### 14.2 UN proper shipping name

UNRTDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Cyantraniliprole)  
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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**IATA** : N.O.S.  
(Cyantraniliprole)  
: Environmentally hazardous substance, liquid, n.o.s.  
(Cyantraniliprole)

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>UNRTDG</b>	: 9	
<b>IMDG</b>	: 9	
<b>IATA</b>	: 9	

### 14.4 Packing group

**UNRTDG**  
Packing group : III  
Labels : 9

**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### 14.5 Environmental hazards

**UNRTDG**  
Environmentally hazardous : yes

**IMDG**  
Marine pollutant : yes

**IATA (Passenger)**  
Environmentally hazardous : yes

**IATA (Cargo)**  
Environmentally hazardous : yes

### 14.6 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.



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### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

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

### 15.2 Chemical Safety Assessment

A chemical safety assessment is not required for this product (mixture).

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## SECTION 16: Other information

#### Full text of H-Statements

H301	: Toxic if swallowed.
H310	: Fatal in contact with skin.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H330	: Fatal if inhaled.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

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### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Skin Corr.	:	Skin corrosion
Skin Sens.	:	Skin sensitization

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Eye Irrit. 2	H319
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Calculation method

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