

# SAFETY DATA SHEET



## Preza® 100 OD insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.2	2023/03/15	50000912	Date of first issue: 2018/03/01

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Preza® 100 OD insecticide

Other means of identification : Benevia® 100 OD  
Cyantraniliprole 100 g/l OD

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

Recommended use : Insecticide

Restrictions on use : Use as recommended by the label.

#### Manufacturer or supplier's details

Company : PT FMC AGRICULTURAL MANUFACTURING

Address : WISMA KODEL LANTAI 10 JALAN HR.RASUNA SAID,  
KAV. B-4, KEL. SETIA BUDI, KEC. SETIABUDI, KOTA  
ADM. JAKARTA SELATAN, PROV. DKI JAKARTA

Telephone : +62 21-50890890

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

Emergency telephone : For leak, fire, spill or accident emergencies, call:  
001-803-017-9114 (CHEMTREC)  
1 703 / 741-5970 (CHEMTREC - International)

Medical emergency:  
0800 140 1447

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Skin sensitization : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1


#### GHS label elements

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Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing mist or vapors.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
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

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Cyantraniliprole	736994-63-1	10,26
Fatty acids, soya, Me esters	68919-53-9	>= 30 -< 60
calcium dodecylbenzenesulphonate	26264-06-2	>= 10 -< 30
2-ethylhexan-1-ol	104-76-7	< 10
Polyoxyethylene sorbitol hexaoleate	57171-56-9	< 10
Fatty acids, C6-10, Me esters	68937-83-7	< 10

## 4. FIRST AID MEASURES

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

If inhaled : Remove to fresh air.

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- If unconscious, place in recovery position and seek medical advice.  
Consult a physician after significant exposure.
- In case of skin contact : If on clothes, remove clothes.  
If on skin, rinse well with water.  
Wash off with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.
- 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.  
Do not induce vomiting without medical advice.
- Most important symptoms and effects, both acute and delayed : Exposure to skin may result in mild symptoms include itching, hives or rash, and skin redness. More severe symptoms include sneezing, itchy watery eyes, and difficulty breathing. May cause an allergic skin reaction.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.
- Notes to physician : Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Regular foam  
Water spray
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Thermal decomposition can lead to release of irritating gases and vapors.  
Carbon oxides  
Sulfur oxides  
Chlorine compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Bromine compounds  
Hydrogen cyanide
- Specific extinguishing method : Remove undamaged containers from fire area if it is safe to do

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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 : Use personal protective equipment.  
If it can be safely done, stop the leak.  
Keep people away from and upwind of spill/leak.  
Do not touch or walk through the spilled material.  
Remove all sources of ignition.  
Immediately evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Never return spills in original containers for re-use.  
Collect as much of the spill as possible with a suitable absorbent material.  
Pick up and transfer to properly labeled containers.  
Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

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

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
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.

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Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : The product is stable under normal conditions of warehouse storage.  
Protect from frost and extreme heat.  
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.

## 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.

Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Plan first aid action before beginning work with this product.  
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 recom-

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mended, the end user must refer to the label and the instructions for use.

Hygiene measures : General industrial hygiene practice.  
Avoid contact with skin, eyes and clothing.  
Do not inhale aerosol.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid dispersion

Color : off-white

Odor : mild, oily

Odor Threshold : No data available

pH : 5,1  
Concentration: 10 g/l  
(as a dispersion)

Melting point/freezing point : not determined

Boiling point/boiling range : 99 °C

Flash point : > 99 °C

Method: closed cup

Evaporation rate : No data available

Flammability (liquids) : Not highly flammable

Self-ignition : 254 °C

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Relative vapor density : Not available for this mixture.

Relative density : 0,978

Density : No data available

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Bulk density	: 0,9 - 1,1 g/cm <sup>3</sup>
Solubility(ies) Water solubility	: dispersible
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: not determined
Viscosity Viscosity, dynamic	: 345 mPa.s 25 rpm  257 mPa.s 50 rpm  200 mPa.s 100 rpm
Viscosity, kinematic	: 353 mm <sup>2</sup> /s 25 rpm  204 mm <sup>2</sup> /s 100 rpm
Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing

### 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. Avoid extreme temperatures. Heat, flames and sparks. Protect from frost, heat and sunlight.
Incompatible materials	: Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	: Stable under recommended storage conditions.

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11. TOXICOLOGICAL INFORMATION

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**Acute toxicity**

Not classified based on available information.

**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): > 3,3 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 |
| Acute dermal toxicity     | : | LD50 (Rat): > 5.000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes   |

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

- |                           |   |  |
|---------------------------|---|--|
| Acute oral toxicity       | : | LD50 (Rat): > 5.000 mg/kg<br>Method: OECD Test Guideline 425<br>Assessment: The substance or mixture has no acute oral toxicity  |
| Acute inhalation toxicity | : | LC50 (Rat): > 5,2 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Assessment: The substance or mixture has no acute inhalation toxicity |
| Acute dermal toxicity     | : | LD50 (Rat): > 5.000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute dermal toxicity  |

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

- |                       |   |                                     |
|-----------------------|---|-------------------------------------|
| Acute oral toxicity   | : | LD50 (Rat): 5.000 - 15.000 mg/kg    |
| Acute dermal toxicity | : | LD50 (Rabbit): 2.000 - 20.000 mg/kg |

**calcium dodecylbenzenesulphonate:**

- |                     |   |   |
|---------------------|---|---|
| Acute oral toxicity | : | LD50 (Rat, male and female): 1.300 mg/kg<br>Remarks: Based on data from similar materials |
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Acute inhalation toxicity : Remarks: Not classified

Acute dermal toxicity : LD50 (Rat, male and female): > 2000 milligram per kilogram  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### 2-ethylhexan-1-ol:

Acute oral toxicity : LD50 (Rat, male): 2.047 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4,3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 3.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### Polyoxyethylene sorbitol hexaoleate:

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

### Fatty acids, C6-10, Me esters:

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

### Skin corrosion/irritation

Not classified based on available information.

### Product:

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

### Components:

#### Cyantraniliprole:

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

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

Result : slight irritation

#### calcium dodecylbenzenesulphonate:

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

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### 2-ethylhexan-1-ol:

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

### Polyoxyethylene sorbitol hexaoleate:

Species	: Rabbit
Result	: No skin irritation

### Fatty acids, C6-10, Me esters:

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

### Serious eye damage/eye irritation

Not classified based on available information.

### Product:

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

### Components:

#### Cyantraniliprole:

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

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

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

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

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

### 2-ethylhexan-1-ol:

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

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**Polyoxyethylene sorbitol hexaoleate:**

Species	:	Rabbit
Result	:	No eye irritation

**Fatty acids, C6-10, Me esters:**

Species	:	Rabbit
Result	:	slight irritation
Method	:	OECD Test Guideline 405

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Product:**

Test Type	:	Local lymph node test
Species	:	mice
Assessment	:	May cause sensitization by skin contact.
Method	:	OECD Test Guideline 429
Result	:	Causes sensitization.
GLP	:	yes

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

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

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

Result	:	Does not cause skin sensitization.
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**calcium dodecylbenzenesulphonate:**

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

**Polyoxyethylene sorbitol hexaoleate:**

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

**Fatty acids, C6-10, Me esters:**

Routes of exposure	:	Skin contact
Species	:	Guinea pig

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Result : Not a skin sensitizer.

### Germ cell mutagenicity

Not classified based on available information.

#### Product:

Genotoxicity in vitro	: Test Type: Ames test Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	: Test Type: Bone marrow chromosome aberration. Species: Mouse Method: OECD Test Guideline 474 Result: negative
Germ cell mutagenicity - Assessment	: Contains no ingredient listed as a mutagen

#### Components:

##### **Cyantraniliprole:**

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

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo	: Test Type: chromosome aberration assay Species: Rat (male and female) Application Route: Oral Exposure time: 90 d Result: negative Remarks: Based on data from similar materials
Germ cell mutagenicity - Assessment	: Weight of evidence does not support classification as a germ cell mutagen.

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

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative

##### **Fatty acids, C6-10, Me esters:**

Genotoxicity in vitro	: Test Type: Ames test
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Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

### **Carcinogenicity**

Not classified based on available information.

#### **Product:**

Carcinogenicity - Assessment : Contains no ingredient listed as a carcinogen

#### **Components:**

##### **Cyantraniliprole:**

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

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

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

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

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

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

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

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

### **Reproductive toxicity**

Not classified based on available information.

#### **Product:**

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

#### **Components:**

##### **Cyantraniliprole:**

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

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### calcium dodecylbenzenesulphonate:

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

### 2-ethylhexan-1-ol:

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

### STOT-single exposure

Not classified based on available information.

#### Product:

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

#### Components:

### Cyantraniliprole:

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

### 2-ethylhexan-1-ol:

- Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified based on available information.

#### Product:

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

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### Components:

#### **Cyantraniliprole:**

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

### **Repeated dose toxicity**

### Components:

#### **Cyantraniliprole:**

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

#### **calcium dodecylbenzenesulphonate:**

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

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

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

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

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

### **Aspiration toxicity**

Not classified based on available information.

### Product:

No aspiration toxicity classification

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### Components:

#### **Cyantraniliprole:**

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

### **Further information**

#### Product:

Remarks : No data available

### Components:

#### **Cyantraniliprole:**

Remarks : No data available

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## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Product:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 37 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,215 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

EC50 (Daphnia magna (Water flea)): 0,00947 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

EC50 (Daphnia magna (Water flea)): 20,4 µg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 63,8 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to soil dwelling organisms : LC50 (worms): > 1.000 mg/kg



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Toxicity to terrestrial organisms : LD50 (*Apis mellifera* (bees)): 3.79 µg/bee  
Exposure time: 72 h  
End point: Acute oral toxicity

LD50 (*Apis mellifera* (bees)): 6.31 µg/bee  
Exposure time: 96 h  
End point: Acute contact toxicity

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

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

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 12,6 mg/l  
Exposure time: 96 h

LC50 (*Ictalurus punctatus* (channel catfish)): > 10 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0,0204 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 13 mg/l  
Exposure time: 72 h

EbC50 (*Pseudokirchneriella subcapitata* (algae)): > 13 mg/l  
Exposure time: 72 h

ErC50 (*Lemna gibba* (duckweed)): 0,278 mg/l  
Exposure time: 7 d

EyC50 (*Lemna gibba* (duckweed)): 0,060 mg/l  
Exposure time: 7 d

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (*Cyprinodon variegatus* (sheepshead minnow)): 2,9 mg/l  
Exposure time: 28 d

NOEC (*Oncorhynchus mykiss* (rainbow trout)): 0,11 mg/l  
Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0,00656 mg/l  
Exposure time: 21 d

NOEC (*Daphnia magna* (Water flea)): 0,00969 mg/l  
Exposure time: 21 d

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

M-Factor (Chronic aquatic toxicity) : 10

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

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

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

LD50 (Colinus virginianus (Bobwhite quail)): 2.250 mg/kg

### Fatty acids, soya, Me esters:

Toxicity to fish : LC50 (Fish): > 1.000 mg/l  
Exposure time: 96 h

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Crustaceans): 800 - 5.243 mg/l  
Exposure time: 48 h

### calcium dodecylbenzenesulphonate:

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

LC50 (Pimephales promelas (fathead minnow)): 4,6 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 7,9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC50 (Pseudokirchneriella subcapitata (green algae)): 65,4 mg/l

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Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1,65 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

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

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

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

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

### 2-ethylhexan-1-ol:

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 3,2 mg/l  
Exposure time: 72 h

EC50 (Desmodesmus subspicatus (green algae)): 11,5 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Anabaena flos-aquae (cyanobacterium)): 16,6 mg/l  
Exposure time: 72 h

### Polyoxyethylene sorbitol hexaoleate:

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

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

### Fatty acids, C6-10, Me esters:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 95 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other : EC50 (Gammarus fasciatus (freshwater shrimp)): 14,7 mg/l

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aquatic invertebrates

Remarks: Based on data from similar materials

### Persistence and degradability

#### Product:

Biodegradability : Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

#### Components:

##### **Cyantraniliprole:**

Biodegradability : Remarks: Not readily biodegradable.

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

Biodegradability : Result: Readily biodegradable.

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

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

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

Biodegradability : Result: Readily biodegradable.

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

Biodegradability : Result: Biodegradable  
Biodegradation: 99 %

Result: Biodegradable  
Biodegradation: 65 %

##### **Fatty acids, C6-10, Me esters:**

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Product:

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

#### Components:

##### **Cyantraniliprole:**

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

Bioconcentration factor (BCF): 15

Partition coefficient: n- : log Pow: 1,97 (22 °C)

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octanol/water	pH: 4
	log Pow: 2,07 (22 °C)
	pH: 7
	log Pow: 1,74 (22 °C)
	pH: 9

### Fatty acids, soya, Me esters:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

### calcium dodecylbenzenesulphonate:

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 70,79  
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: 4,77 (25 °C)

### 2-ethylhexan-1-ol:

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

### Mobility in soil

#### Product:

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

#### Components:

#### **Cyantraniliprole:**

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

### 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.

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

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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.  
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.

### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

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

##### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Cyantraniliprole)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

##### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Cyantraniliprole)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### 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

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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**

**Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.**

**Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health**

Hazardous substances that must be registered : Not applicable

**Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances**

Hazardous substances approved for use : Not applicable

Prohibited substances : Not applicable

Restricted substances : 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

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

3-BROMO-1-(3-CHLORO-2-PYRIDYL)-4'-CYAN-2'-METHYL-6'-(METHYLCARBAMOYL)-1H-PYRAZOLE-5-CARBOXANILIDE  
Fatty acids, C6-10, Me esters

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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Date format : yyyy/mm/dd

#### 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; 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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