

# SAFETY DATA SHEET



## FERTERRA® 0.4 GR Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2025/05/09	50000063	Date of first issue: 2025/05/09

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : FERTERRA® 0.4 GR Insecticide

Other means of identification : None

#### 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.

#### Manufacturer or supplier's details

Company : FMC Taiwan Co. Ltd.

Address : 3F, No. 179, Fuhuiyuan Blvd.,  
Xitun Dist., Taichung City, 40758  
Taiwan

Telephone : +886 4 2254 2785

Telefax : +886 4 2254 2831

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

Emergency telephone : For leak, fire, spill or accident emergencies, call:  
00801-14-8954 (CHEMTREC)

Medical emergency:  
00886 2 28757525 (in case of chemical spill, fire or poisoning  
accident)

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Long-term (chronic) aquatic hazard : Category 2

#### GHS label elements

Hazard pictograms :



Signal Word : None

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Hazard Statements : H411 Toxic to aquatic life with long lasting effects.

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

Hazardous ingredients	CAS-No.	Concentration (% w/w)
Chlorantraniliprole	500008-45-7	$\geq 0.25$ -< 1
Talc ( $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$ )	14807-96-6	$\geq 1$ -< 10
Quartz ( $\text{SiO}_2$ )	14808-60-7	$\geq 70$ -< 90

## 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.

### First aid measures for different exposure routes

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 plenty of water.

In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

Most important symptoms : None known.

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and effects, both acute and delayed

Notes to physician : Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

- |  |   |
|--|---|
| Suitable extinguishing media                   | : Water spray<br>Foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical  |
| Unsuitable extinguishing media                 | : High volume water jet<br>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                  | : No hazardous combustion products are known  |
| Specific extinguishing methods                 | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : Wear self-contained breathing apparatus for firefighting if necessary.  |

### 6. ACCIDENTAL RELEASE MEASURES

- |   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Avoid dust formation.<br>Use personal protective equipment.<br>Refer to protective measures listed in sections 7 and 8.        |
| Environmental precautions   | : Prevent product from entering drains.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up               | : Pick up and arrange disposal without creating dust.<br>Keep in suitable, closed containers for disposal.                       |

### 7. HANDLING AND STORAGE

#### Handling

- |   |  |
|---|--|
| Advice on protection against fire and explosion | : Provide appropriate exhaust ventilation at places where dust is formed.                                |
| Advice on safe handling                         | : For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the ap- |

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plication area.

### Storage

Conditions for safe storage : 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.

Materials to avoid : No materials to be especially mentioned.

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO <sub>2</sub> )	14808-60-7	TWA (Respirable dust)	10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	TW OEL
		TWA (Total dust)	30 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	TW OEL
		TWA (Respirable dust)	1 mg/m <sup>3</sup>	TW OEL
		TWA (Total dust)	4 mg/m <sup>3</sup>	TW OEL
		STEL (Respirable dust)	2 mg/m <sup>3</sup>	TW OEL
		STEL (Total dust)	8 mg/m <sup>3</sup>	TW OEL
		TWA (Respirable particulate matter)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6	TWA (Respirable dust)	2 mg/m <sup>3</sup>	TW OEL
		STEL (Respirable dust)	4 mg/m <sup>3</sup>	TW OEL
		TWA TWA (Respirable particulate matter)	0.1 fibres per cubic centimeter 2 mg/m <sup>3</sup>	ACGIH ACGIH

### Biological occupational exposure limits

Contains no substances with biological exposure indices.

### Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable per-

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sonal respiratory protection and protective suit.

Hand protection Material	:	Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
Eye protection	:	Safety glasses
Skin and body protection	:	Protective suit
Protective measures	:	Always have on hand a first-aid kit, together with proper instructions.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	solid
Form	:	granules
Color	:	blue green
Odor	:	none
pH	:	4 - 8 (aqueous suspension)
Melting point/freezing point	:	Not available for this mixture.
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Flammability (solid, gas)	:	The product is not flammable.
Density	:	1.3 g/cm <sup>3</sup>
Partition coefficient: n-octanol/water	:	Not applicable
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive

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Oxidizing properties : The product is not oxidizing.

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### 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong bases Strong oxidizing agents Strong acids
Hazardous decomposition products	: Stable under recommended storage conditions.

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### 11. TOXICOLOGICAL INFORMATION

Symptoms of Overexposure : None known.

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	: LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425
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 Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402

#### Components:

##### Chlorantraniliprole:

Acute oral toxicity	: LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425 GLP: yes
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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

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: Information source: Internal study report

### **Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

Acute oral toxicity : LD0 (Rat, male): > 5,000 mg/kg  
Method: OECD Test Guideline 423  
Remarks: no mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 2.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: no mortality

Acute dermal toxicity : LD0 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: no mortality

### **Quartz (SiO<sub>2</sub>):**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.01 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### **Skin corrosion/irritation**

Not classified based on available information.

### **Product:**

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

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### **Components:**

#### **Chlorantraniliprole:**

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

#### **Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

Species	: reconstructed human epidermis (RhE)
Result	: No skin irritation

#### **Quartz (SiO<sub>2</sub>):**

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
Remarks	: Based on data from similar materials

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Product:**

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

### **Components:**

#### **Chlorantraniliprole:**

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

#### **Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

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

#### **Quartz (SiO<sub>2</sub>):**

Species	: Rabbit
Result	: No eye irritation
Method	: OECD Test Guideline 405
Remarks	: Based on data from similar materials



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

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Product:**

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

**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.

**Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

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

Routes of exposure	: Inhalation
Species	: Rat
Result	: Does not cause respiratory sensitization.

**Quartz (SiO<sub>2</sub>):**

Test Type	: Local lymph node assay (LLNA)
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitization.
Remarks	: Based on data from similar materials

**Chronic toxicity****Germ cell mutagenicity**

Not classified based on available information.

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**Components:****Chlorantraniliprole:**

- Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Result: negative
- Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476  
Result: negative
- Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative
- Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

- Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative
- Test Type: gene mutation test  
Method: QSAR  
Result: negative
- Test Type: reverse mutation assay  
Result: negative
- Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Rat (male)  
Application Route: Oral  
Result: negative
- Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**Quartz (SiO<sub>2</sub>):**

- Genotoxicity in vitro : Test Type: reverse mutation assay  
Result: negative  
Remarks: Based on data from similar materials
- Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Rat  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

**Carcinogenicity**

Not classified based on available information.

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**Product:**

Carcinogenicity - Assessment : This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

**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

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

**Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 101 days  
Dose : 100 mg/kg bw/day  
NOAEL : 100 mg/kg bw/day  
Method : OECD Test Guideline 453  
Result : negative  
Target Organs : Stomach  
Tumor Type : Leiomyosarcoma

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

**Quartz (SiO<sub>2</sub>):**

Carcinogenicity - Assessment : Human carcinogen.

**Reproductive toxicity**

Not classified based on available information.

**Components:****Chlorantraniliprole:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female

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Application Route: Oral  
General Toxicity Parent: NOAEL: 20,000 ppm  
General Toxicity F1: NOAEL: 20,000 ppm  
Method: OECD Test Guideline 416  
Result: negative

Effects on fetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Oral  
Duration of Single Treatment: 6 - 20 Days  
General Toxicity Maternal: NOEL: 1,000 mg/kg bw/day  
Developmental Toxicity: NOEL: 1,000 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: negative

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

### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):

Effects on fertility : Species: Rabbit, female  
Application Route: Oral  
Dose: 9, 42, 195, 900 mg/kg bw/day  
General Toxicity Parent: NOAEL: > 900 mg/kg body weight  
General Toxicity F1: NOAEL: > 900 mg/kg body weight  
Result: negative

Effects on fetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Oral  
Dose: 0,16,74,350,1600mg/kg bw/day  
Duration of Single Treatment: 20 d  
General Toxicity Maternal: NOAEL: >= 1,600 mg/kg bw/day  
Embryo-fetal toxicity.: NOAEL: 1,600 mg/kg bw/day  
Result: negative

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

### STOT-single exposure

Not classified based on available information.

### Components:

#### Chlorantraniliprole:

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

#### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):

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

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**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.  
This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

**Components:****Chlorantraniliprole:**

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

**Quartz (SiO<sub>2</sub>):**

Routes of exposure : Inhalation  
Target Organs : Lungs  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Routes of exposure : Inhalation  
Target Organs : Immune system, Kidney  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**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

**Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

Species : Rat, male and female  
NOAEL : 100 mg/kg  
Application Route : Oral - feed  
Exposure time : 101 d  
Dose : 100 mg/kg bw/day

Species : Rat, male and female  
NOAEL : 2 mg/m<sup>3</sup>  
LOAEL : 6 mg/m<sup>3</sup>  
Application Route : inhalation (dust/mist/fume)  
Test atmosphere : dust/mist  
Exposure time : 20 d  
Dose : 0, 2, 6, 18 mg/m<sup>3</sup>

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### Quartz (SiO<sub>2</sub>):

Species	: Rat
LOAEC	: 0.0025 mg/l
Application Route	: Inhalation
Exposure time	: 90 day
Method	: OECD Test Guideline 413
Target Organs	: Lungs
Remarks	: Based on data from similar materials

### Aspiration toxicity

Not classified based on available information.

### 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 (Cyprinus carpio (Carp)): > 5,000 mg/l Exposure time: 96 h
Toxicity to terrestrial organisms	: LD50 (Columba livia (feral pigeon)): > 5,000 mg/kg End point: Acute oral toxicity  LD50 (Honey Bee): > 200 µg/bee

### 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
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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

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

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 (Cyprinodon variegatus (sheepshead minnow)): 1.28 mg/l  
Exposure time: 36 d

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.110 mg/l  
Exposure time: 28 d

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Method: OECD Test Guideline 210

GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.00447 mg/l  
Exposure time: 21 d  
Method: US EPA Test Guideline OPPTS 850.1300  
GLP: yes

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 207  
GLP: yes

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

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

Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): > 4.0 µg/bee  
Exposure time: 72 h  
End point: Acute contact toxicity  
Remarks: Active substance dissolved in acetone

LD50 (Apis mellifera (bees)): > 0.005 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Remarks: Active substance dissolved in water

LD50 (Apis mellifera (bees)): > 104.1 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Remarks: Active substance dissolved in acetone

LD50 (Apis mellifera (bees)): > 0.0274 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Remarks: Active substance dissolved in water

LD50 (Poephila guttata (zebra finch)): > 2,250 mg/kg

**Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

Toxicity to fish : LC50 (Fish): 89,581.016 mg/l  
Exposure time: 96 h  
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 36,812.359 mg/l  
Exposure time: 48 h



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Method: QSAR

Toxicity to algae/aquatic plants : NOEC (green algae): 918.089 mg/l  
Exposure time: 30 d  
Method: QSAR

EC50 (green algae): 7,202.7 mg/l  
Exposure time: 96 h  
Method: QSAR

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 1,412.648 mg/l  
Exposure time: 30 d  
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia): 1,459.798 mg/l  
Exposure time: 30 d  
Method: QSAR

### Quartz (SiO<sub>2</sub>):

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 10,000 mg/l  
Exposure time: 72 h

### 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

### Quartz (SiO<sub>2</sub>):

Biodegradability : Result: Not biodegradable

### Bioaccumulative potential

#### 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

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log Pow: 2.86 (20 °C)  
pH: 7

log Pow: 2.80 (20 °C)  
pH: 9

### Talc ( $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$ ):

Bioaccumulation : Bioconcentration factor (BCF): 3.16  
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: -9.4 (25 °C)  
pH: 7  
Method: QSAR

### Quartz ( $\text{SiO}_2$ ):

Bioaccumulation : Remarks: Does not bioaccumulate.

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

#### Components:

#### Chlorantraniliprole:

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

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## 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.

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Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(Chlorantraniliprole)  
Class : 9  
Subsidiary risk : ENVIRONM.  
Packing group : III  
Labels : 9 (ENVIRONM.)  
Environmentally hazardous : yes

##### IATA-DGR

UN/ID No. : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Chlorantraniliprole)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 956  
Packing instruction (passenger aircraft) : 956  
Environmentally hazardous : yes

##### IMDG-Code

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
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 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 Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### 15. REGULATORY INFORMATION

#### National regulatory information

Regulations on Occupational Safety and Health Facilities :  
Standards for the Storage, Cleanup, Handling and Disposal of Industrial Waste :  
Standards of Permissible Exposure Limits in Workplace :

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

TCSI : Not in compliance with the inventory  
TSCA : Product contains substance(s) not listed on TSCA inventory.  
AIIC : Not in compliance with the inventory  
DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.

3-BROMO-4'-CHLORO-1-(3-CHLORO-2-PYRIDYL)-2'-METHYL-6'-(METHYLCARBAMOYL)-1H-PYRAZOLE-5-CARBOXANILIDE

ENCS : Not in compliance with the inventory  
ISHL : Not in compliance with the inventory  
KECI : Not in compliance with the inventory  
PICCS : Not in compliance with the inventory  
IECSC : Not in compliance with the inventory  
NZIoC : Not in compliance with the inventory  
TECI : Not in compliance with the inventory

### 16. OTHER INFORMATION

Responsible Department : FMC Corporation  
Contact person : Bee Huang  
Revision Date : 2025/05/09  
Date format : yyyy/mm/dd

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### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
TW OEL : Standards of Permissible Exposure Limits in Workplace

ACGIH / TWA : 8-hour, time-weighted average  
TW OEL / TWA : 8-hour time weighted average  
TW OEL / STEL : time weighted average for short term exposure

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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