

# SAFETY DATA SHEET

## Altacor® Insecticide



|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: -           |
| 1.1     | 2022/05/11     | 50000012    | Date of first issue: 2018/01/01 |

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Altacor® Insecticide

Other means of identification : Altacor 35 WG  
Prevathon 35WDG  
Valacor 35 WG

#### 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 AG (Thailand) Limited

Address : 159/22 Serm-Mit Tower, Unit 1404, 14th Floor, Sukhumvit 21(Asoke)  
Road, Klongtoey Nua, Wattana, Bangkok 10110, Thailand

Telephone : + 662-7009770

Emergency telephone : For leak, fire, spill or accident emergencies, call:  
1 703 / 741-5970 (CHEMTREC - International)  
001-800-13-203-9987 (CHEMTREC)

Medical emergency:  
All other countries: +1 651 / 632-6793 (Collect)

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

#### GHS label elements

Hazard pictograms : 

Signal Word : Warning

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Hazard Statements : H410 Very 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

| Chemical name                                    | CAS-No.     | Concentration (% w/w) |
|--|-------------|-----------------------|
| Chlorantraniliprole                              | 500008-45-7 | $\geq 30$ -< 50       |
| kaolin   | 1332-58-7   | $\geq 1$ -< 10        |
| Lignosulfonic acid, sodium salt, sulfomethylated | 68512-34-5  | $\geq 1$ -< 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 : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : Wash off with plenty of water.  
Take off contaminated clothing and shoes immediately.  
Call a physician if irritation develops or 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.

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

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delayed

Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.

Notes to physician : Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)

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.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Bromine compounds  
Chlorine compounds

Specific extinguishing methods : 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.  
  
Remove undamaged containers from fire area if it is safe to do so.  
Use a water spray to cool fully closed containers.  
Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Use personal protective equipment.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.  
Avoid dust formation.

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.

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

### 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.  
  
Normal measures for preventive fire protection.

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

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 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  |
|------------|-----------|-------------------------------------|--|--------|
| kaolin     | 1332-58-7 | TWA (Respirable dust)               | 0.025 mg/m <sup>3</sup>                        | TH OEL |
|            |           | TWA (Respirable dust)               | 0.025 mg/m <sup>3</sup> (Silica)               | TH OEL |
|            |           | TWA (Respirable particulate matter) | 2 mg/m <sup>3</sup>                            | ACGIH  |

#### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Particulates type

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|                          |   |   |
|--------------------------|---|---|
| Hand protection          |   |   |
| Material                 | : | Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.   |
| Remarks                  | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves.   |
| Eye protection           | : | Eye wash bottle with pure water<br>Tightly fitting safety goggles   |
| Skin and body protection | : | Dust impervious protective suit<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.   |
| Protective measures      | : | Plan first aid action before beginning work with this product.  |
| Hygiene measures         | : | General industrial hygiene practice.<br>Avoid contact with skin, eyes and clothing.<br>Provide adequate ventilation.<br>Do not breathe dust or spray mist.<br>Wash hands before breaks and at the end of workday. |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |   |   |
|--|---|---|
| Appearance                                       | : | granular                                |
| Color  | : | light brown                             |
| Odor   | : | slight, sweet                           |
| Odor Threshold                                   | : | No data available                       |
| pH   | : | 7 - 10 (25 °C)<br>Concentration: 10 g/l |
| Melting point/range                              | : | Not available for this mixture.         |
| Boiling point/boiling range                      | : | Not applicable                          |
| Flash point                                      | : | Not applicable                          |
| Evaporation rate                                 | : | Not applicable                          |
| Self-ignition                                    | : | > 155 °C                                |
| Upper explosion limit / Upper flammability limit | : | Not available for this mixture.         |
| Lower explosion limit / Lower                    | : | No data available                       |

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|  |                                       |
|--|---------------------------------------|
| flammability limit                     |                                       |
| Vapor pressure                         | : No data available                   |
| Relative vapor density                 | : Not applicable                      |
| Relative density                       | : No data available                   |
| Density                                | : No data available                   |
| Bulk density                           | : 0.7 - 0.86 g/cm <sup>3</sup> packed |
| Solubility(ies)                        |                                       |
| Water solubility                       | : dispersible                         |
| Partition coefficient: n-octanol/water | : Not applicable                      |
| Autoignition temperature               | : No data available                   |
| Decomposition temperature              | : No data available                   |
| Viscosity                              |                                       |
| Viscosity, dynamic                     | : No data available                   |
| Viscosity, kinematic                   | : Not applicable                      |
| Explosive properties                   | : Not explosive                       |
| Oxidizing properties                   | : Non-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 | : Dust may form explosive mixture in air.<br>No decomposition if used as directed.              |
| Conditions to avoid                | : Avoid dust formation.<br><br>Avoid extreme temperatures                                       |
| Incompatible materials             | : Strong acids and strong bases<br>Strong oxidizing agents                                      |
| Hazardous decomposition products   | : Sulfur oxides<br>Halogenated compounds<br>Nitrogen oxides (NO <sub>x</sub> )<br>Carbon oxides |

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### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

- |                           |   |
|---------------------------|---|
| Acute oral toxicity       | : LD50 (Rat, female): > 5,000 mg/kg<br>Method: OECD Test Guideline 425<br>GLP: yes  |
| Acute inhalation toxicity | : LC50 (Rat): > 6.2 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): > 5,000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes  |

#### Components:

##### Chlorantraniliprole:

- |                           |   |
|---------------------------|---|
| Acute oral toxicity       | : LD50 (Rat, female): > 5,000 mg/kg<br>Method: OECD Test Guideline 425  |
| Acute inhalation toxicity | : LC50 (Rat, male and female): > 5.1 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, male and female): > 5,000 mg/kg<br>Method: OECD Test Guideline 402   |

##### kaolin:

- |                           |   |
|---------------------------|---|
| Acute oral toxicity       | : LD50 (Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 401<br><br>LD50: > 2,000 mg/kg<br>Method: OECD Test Guideline 420<br>Assessment: The substance or mixture has no acute oral toxicity |
| Acute inhalation toxicity | : LD50: 5.07 mg/l<br>Method: OECD Test Guideline 436  |
| Acute dermal toxicity     | : LD50 (Rat): > 5,000 mg/kg   |

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LD50: > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Acute oral toxicity : LD50 (Rat, female): > 10 g/kg

### **Skin corrosion/irritation**

Not classified based on available information.

#### **Product:**

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

#### **Components:**

##### **Chlorantraniliprole:**

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

##### **kaolin:**

Method : OECD Test Guideline 404  
Result : No skin irritation

### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Result : No skin irritation

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

Not classified based on available information.

#### **Product:**

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

#### **Components:**

##### **Chlorantraniliprole:**

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

##### **kaolin:**

Result : No eye irritation  
Method : OECD Test Guideline 405



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### Lignosulfonic acid, sodium salt, sulfomethylated:

Result : Moderate eye irritation

### 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 test                                    |
| Species   | : Mouse  |
| Method    | : OECD Test Guideline 406                                  |
| Result    | : Animal test did not cause sensitization by skin contact. |

### Components:

#### Chlorantraniliprole:

|           |                                      |
|-----------|--------------------------------------|
| Test Type | : Maximization Test                  |
| Species   | : Guinea pig                         |
| Method    | : OECD Test Guideline 406            |
| Result    | : Does not cause skin sensitization. |

|  |                                      |
|--|--------------------------------------|
|  | : Local lymph node assay (LLNA)      |
|  | : mice                               |
|  | : OECD Test Guideline 429            |
|  | : Does not cause skin sensitization. |

#### kaolin:

|        |                                      |
|--------|--------------------------------------|
| Method | : OECD Test Guideline 429            |
| Result | : Does not cause skin sensitization. |

### Lignosulfonic acid, sodium salt, sulfomethylated:

|         |                          |
|---------|--------------------------|
| Species | : Guinea pig             |
| Result  | : Not a skin sensitizer. |

### Germ cell mutagenicity

Not classified based on available information.

### 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                       |

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Result: negative

Genotoxicity in vivo : Test Type: Mammalian bone marrow sister chromatid exchange  
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.

### **kaolin:**

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Remarks: No data available

### **Lignosulfonic acid, sodium salt, sulfomethylated:**

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

Genotoxicity in vivo : Remarks: No data available

### **Carcinogenicity**

Not classified based on available information.

### **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.

### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Remarks : No data available

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### Reproductive toxicity

Not classified based on available information.

#### Components:

##### **Chlorantraniliprole:**

|                                    |   |   |
|------------------------------------|---|---|
| Effects on fertility               | : | Test Type: Two-generation study<br>Species: Rat, male and female<br>Application Route: Oral<br>General Toxicity Parent: NOAEL: 20,000 ppm<br>General Toxicity F1: NOAEL: 20,000 ppm<br>Method: OECD Test Guideline 416<br>Result: negative                                  |
| Effects on fetal development       | : | Test Type: Pre-natal<br>Species: Rat<br>Application Route: Oral<br>Duration of Single Treatment: 6 - 20 d<br>General Toxicity Maternal: NOEL: 1,000 mg/kg bw/day<br>Developmental Toxicity: NOEL: 1,000 mg/kg bw/day<br>Method: OECD Test Guideline 414<br>Result: negative |
| Reproductive toxicity - Assessment | : | Weight of evidence does not support classification for reproductive toxicity  |

##### **kaolin:**

|                              |   |                            |
|------------------------------|---|----------------------------|
| Effects on fertility         | : | Remarks: No data available |
| Effects on fetal development | : | Remarks: No data available |

##### **Lignosulfonic acid, sodium salt, sulfomethylated:**

|                              |   |                            |
|------------------------------|---|----------------------------|
| Effects on fertility         | : | Remarks: No data available |
| Effects on fetal development | : | Remarks: No data available |

### 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. |
| Remarks    | : | No significant adverse effects were reported   |

##### **kaolin:**

|         |   |  |
|---------|---|--|
| Remarks | : | No significant adverse effects were reported |
|---------|---|--|

##### **Lignosulfonic acid, sodium salt, sulfomethylated:**

|         |   |                   |
|---------|---|-------------------|
| Remarks | : | No data available |
|---------|---|-------------------|

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### STOT-repeated exposure

Not classified based on available information.

#### Product:

Remarks : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

#### Components:

##### Chlorantraniliprole:

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

##### kaolin:

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

##### Lignosulfonic acid, sodium salt, sulfomethylated:

Remarks : No data available

### 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

##### kaolin:

Remarks : No data available

### 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 (Oncorhynchus mykiss (rainbow trout)): > 3.2 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>GLP: yes  |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): 0.029 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>GLP: yes   |
| Toxicity to algae/aquatic plants                                       | : | EbC50 (Pseudokirchneriella subcapitata (green algae)): > 5.0 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>GLP: yes   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 0.00447 mg/l<br>Exposure time: 21 d  |
| Toxicity to soil dwelling organisms                                    | : | (Eisenia fetida (earthworms)): > 1,000 mg/kg<br>Exposure time: 14 d<br>Method: OECD Test Guideline 207  |
| Toxicity to terrestrial organisms                                      | : | LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg<br>Exposure time: 14 d<br>Method: US EPA Test Guideline OPPTS 850.2100<br><br>LD50 (Apis mellifera (bees)): 285.7 µg/abeille285.7 µg/bee<br>Exposure time: 48 h<br>Method: OECD Test Guideline 214<br>GLP: yes<br>Remarks: Contact |

##### Components:

##### **Chlorantraniliprole:**

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 13.8 mg/l<br>Exposure time: 96 h  |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.0116 mg/l<br>Exposure time: 48 h   |
| Toxicity to algae/aquatic plants                    | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l<br>Exposure time: 120 h<br><br>EC50 (Lemna gibba (duckweed)): > 2 mg/l<br>Exposure time: 14 d |

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NOEC (Lemna gibba (duckweed)): 2 mg/l  
Exposure time: 14 d

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

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : 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)): > 0.005 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity

LD50 (Apis mellifera (bees)): > 0.0274 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity

LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg

LC50 (Anas platyrhynchos (Mallard duck)): > 5,620 ppm

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

### kaolin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 615 mg/l  
Exposure time: 96 h

### **Persistence and degradability**

#### **Product:**

Biodegradability : Result: Not biodegradable

#### **Components:**

##### **Chlorantraniliprole:**

Biodegradability : Result: Not readily biodegradable.

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

##### **kaolin:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: < 5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

### **Bioaccumulative potential**

#### **Product:**

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

#### **Components:**

##### **Chlorantraniliprole:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 15  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2.77 (20 °C)  
pH: 4

log Pow: 2.86 (20 °C)  
pH: 7

# SAFETY DATA SHEET



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log Pow: 2.80 (20 °C)  
pH: 9

### kaolin:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Not applicable

### Lignosulfonic acid, sodium salt, sulfomethylated:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: -3.45

### Mobility in soil

#### Components:

#### Chlorantraniliprole:

Distribution among environmental compartments : Koc: 244 - 464  
Remarks: immobile

### kaolin:

Distribution among environmental compartments : Remarks: Low mobility in soil.

### Other adverse effects

#### Product:

Results of PBT and vPvB assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

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.

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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.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 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.)

##### 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

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

|  |   |   |
|--|---|---|
| Hazardous Substance Act  | : | Conditions of restriction for the following entries should be considered:<br>Not applicable |
| Emergency Decree on Controlling the Use of Volatile 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.<br><br>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

Date format : yyyy/mm/dd

#### Full text of other abbreviations

|        |   |   |
|--------|---|---|
| ACGIH  | : | USA. ACGIH Threshold Limit Values (TLV) |
| TH OEL | : | Thailand. Occupational Exposure Limits  |

# SAFETY DATA SHEET



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ACGIH / TWA : 8-hour, time-weighted average  
TH OEL / TWA : Time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

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