

# SAFETY DATA SHEET

according to the Globally Harmonized System



## ALLECTUS® 0.7 GR

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	28.04.2025	50001327	Date of first issue: 28.04.2025

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### 1. IDENTIFICATION

Product name : ALLECTUS® 0.7 GR

Other means of identification : BIFENTHRIN + IMIDACLOPRID (0.3 + 0.4) W/W% GR  
ESCUDO® GR

#### Manufacturer or supplier's details

Company : FMC CORPORATION

Address : 2929 WALNUT STREET  
PHILADELPHIA, PA 19104 USA  
(215) 299-6000 (GENERAL INFORMATION)

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

Emergency telephone : +506-40003869  
911

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

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

Recommended use : Insecticide

Restrictions on use : Use as recommended by the label.

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

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### GHS label elements

Hazard pictograms



Signal Word

: WARNING

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)
calcium carbonate	471-34-1	$\geq 90 - \leq 100$
zinc oxide	1314-13-2	$\geq 0.25 - < 1$
imidacloprid (ISO)	138261-41-3	$\geq 0.25 - < 1$
Bifenthrin	82657-04-3	$\geq 0.25 - < 1$

## 4. FIRST AID MEASURES

General advice

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

If inhaled

: If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact

: Wash off with soap and water.  
If symptoms persist, call a physician.  
Wash contaminated clothing before re-use.

In case of eye contact

: Flush eyes with water as a precaution.

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		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 delayed	:	None known.
Protection of first-aiders	:	Avoid inhalation, ingestion and contact with skin and eyes.
Notes to physician	:	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
Unsuitable extinguishing media	:	Do not spread spilled material with high-pressure water streams.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Fire may produce irritating, corrosive and/or toxic gases.
Specific extinguishing methods	:	Use a water spray to cool fully closed containers. Remove undamaged containers from fire area if it is safe to do so. 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	:	If it can be safely done, stop the leak. Do not touch or walk through the spilled material. Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation.
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Avoid breathing dust.  
Ensure adequate ventilation.

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. Pick up and transfer the spilled material to a properly labeled container without creating dust. For spills on concrete or other non-porous surfaces, the area can be cleaned using a small quantity of soap and water. Do not allow the cleaning solution to enter drains. Use an inert absorbent material to soak up the cleaning solution and transfer it to the properly labeled container. When the spill occurs on soil, the only effective way to decontaminate the area is to remove the top 5 to 7 centimeters of soil.

### 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : 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.  
For personal protection see section 8.

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
zinc oxide	1314-13-2	TWA (Respirable par-	2 mg/m3	ACGIH

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		ticulate matter)		
		STEL (Respirable particulate matter)	10 mg/m3	ACGIH

### Personal protective equipment

- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
- Filter type : Particulates type
- Hand protection  
Material : Protective gloves
- 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 : Dust impervious protective suit  
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 : Avoid contact with skin, eyes and clothing.  
Do not breathe dust.  
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

- Physical state : solid
- Form : granules
- Color : No data available
- Odor : No data available
- Odor Threshold : No data available
- pH : 6.84 (20.6 °C)  
Concentration: 10 g/l

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Melting point/ range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : Not applicable

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Relative density : No data available

Density : 1.44 g/cm<sup>3</sup>

Bulk density : 1,524.9 kg/m<sup>3</sup>

Solubility(ies)  
Water solubility : soluble

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

Surface tension : Not applicable

Molecular weight : Not applicable

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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	:	No decomposition if stored and applied as directed. Dust may form explosive mixture in air.
Conditions to avoid	:	Avoid extreme temperatures. Avoid dust formation.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	:	No hazardous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

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

#### Product:

Acute oral toxicity	:	LD50(Rat, female): > 5,000 mg/kg Method: OPPTS 870.1100 Assessment: The substance or mixture has no acute oral toxicity Remarks: no mortality
Acute inhalation toxicity	:	Assessment: Inhalation is not an expected route of exposure. Remarks: Particle size/low volatility exemption
Acute dermal toxicity	:	LD50(Rat, male and female): > 5,000 mg/kg Symptoms: irritating Assessment: The substance or mixture has no acute dermal toxicity Remarks: no mortality

#### Components:

##### calcium carbonate:

Acute oral toxicity	:	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 420
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403

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Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: Highest attainable concentration.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402

### **zinc oxide:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 423

LD50 (Mouse, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 401

Target Organs: Liver, Heart, spleen, Stomach, Pancreas

Symptoms: Damage

Remarks: mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 1.79 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: EPA OPP 81 - 3  
Remarks: no mortality

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402

### **imidacloprid (ISO):**

Acute oral toxicity : LD50 (Rat, male and female): > 1,000 mg/kg  
Symptoms: Tremors, piloerection, Breathing difficulties  
Remarks: no mortality

LD50 (Rat, female): 300 - 2,000 mg/kg

Method: OECD Test Guideline 423

Symptoms: Fatality, Convulsions, piloerection

GLP: yes

Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 (Rat, female): 300 - 2,000 mg/kg

Method: OECD Test Guideline 420

Symptoms: Fatality, Tremors, ataxia

GLP: yes

Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 (Rat, female): ca. 2,567 mg/kg

Method: OECD Test Guideline 425

Symptoms: Fatality, Breathing difficulties

GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.31 mg/l  
Exposure time: 4 h



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Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality

LC50 (Rat, male and female): 5.17 mg/l  
Exposure time: 4 h  
Method: OECD Test Guideline 403  
Symptoms: hypoactivity  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality

LC50 (Rat, male and female): > 4.9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Breathing difficulties, ataxia, Convulsions, Tremors  
Assessment: The component/mixture is minimally toxic after short term inhalation.

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

LD50 (Rabbit): > 2,000 mg/kg

### **Bifenthrin:**

Acute oral toxicity : LD50 (Rat, male and female): 50.2 - 58.8 mg/kg  
Symptoms: Convulsions, Tremors

Acute inhalation toxicity : LC50 (Rat, female): 0.6 - 1.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Tremors, Convulsions

LC50 (Rat, male): 1.10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Tremors, Fatality

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Remarks: no mortality

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### Skin corrosion/irritation

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

#### Product:

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OPPTS 870.2500
Remarks	:	May cause skin irritation in susceptible persons.

#### Components:

##### calcium carbonate:

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

##### zinc oxide:

Species	:	reconstructed human epidermis (RhE)
Method	:	OECD Test Guideline 431
Result	:	No skin irritation

##### imidacloprid (ISO):

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

##### Bifenthrin:

Species	:	Rabbit
Result	:	slight or no skin irritation.
GLP	:	yes

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	slight or no skin irritation.
GLP	:	yes

### Serious eye damage/eye irritation

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

#### Product:

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OPPTS 870.2400
Remarks	:	Product dust may be irritating to eyes, skin and respiratory system.

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### **Components:**

#### **calcium carbonate:**

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

#### **zinc oxide:**

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

#### **imidacloprid (ISO):**

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

#### **Bifenthrin:**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Slight or no eye irritation
GLP	:	yes

### **Respiratory or skin sensitization**

#### **Skin sensitization**

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

#### **Respiratory sensitization**

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

### **Product:**

Test Type	:	Skin sensitization
Routes of exposure	:	Dermal
Species	:	Guinea pig
Assessment	:	Did not cause sensitization on laboratory animals.
Method	:	OPPTS 870.2600

### **Components:**

#### **calcium carbonate:**

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

#### **zinc oxide:**

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

Test Type : Maximization Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Substance is not considered to be potential skin sensitiser.

### **imidacloprid (ISO):**

Test Type : Maximization Test  
Species : Guinea pig  
Result : Does not cause skin sensitization.

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitization.  
GLP : yes

### **Bifenthrin:**

Test Type : Maximization Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitization by skin contact.  
GLP : yes

### **Germ cell mutagenicity**

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

### **Components:**

#### **calcium carbonate:**

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

#### **zinc oxide:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: equivocal

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster fibroblasts

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Method: OECD Test Guideline 473

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Result: positive

Test Type: Micronucleus test

Test system: Human epithelioid cells

Method: OECD Test Guideline 487

Result: negative

Test Type: Micronucleus test

Test system: Human lymphocytes

Result: positive

Genotoxicity in vivo

: Test Type: In vivo micronucleus test  
Species: Mouse (male)  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

**imidacloprid (ISO):**

Genotoxicity in vitro

: Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)

Result: negative

GLP: yes

Genotoxicity in vivo

: Test Type: Cytogenetic assay  
Species: Chinese hamster  
Result: negative  
GLP: yes

Test Type: Micronucleus test

Species: Mouse

Method: OECD Test Guideline 474

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Result: negative  
GLP: yes

Test Type: dominant lethal test  
Species: Mouse  
Result: negative

Test Type: chromosome aberration assay  
Species: Mouse  
Result: negative

### **Bifenthrin:**

Genotoxicity in vitro : Test Type: gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Mouse lymphoma assay  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Sex-linked Recessive Lethal Test  
Species: Drosophila melanogaster (vinegar fly)  
Result: negative

Test Type: unscheduled DNA synthesis assay  
Species: Rat  
Method: OECD Test Guideline 486  
Result: negative

### **Carcinogenicity**

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

### **Components:**

#### **zinc oxide:**

Species	: Mouse, male and female
Application Route	: Oral
Exposure time	: 1 year
Dose	: 4400, 22000 mg/l
NOAEL	: > 22,000 mg/l
Result	: negative
Remarks	: Based on data from similar materials

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

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### Bifenthrin:

Species	: Rat, female
Application Route	: Oral
Exposure time	: 2 Years
NOAEL	: 3 mg/kg bw/day
Result	: negative

Species	: Mouse, male
Application Route	: Oral
Exposure time	: 18 month(s)
NOAEL	: 7.6 mg/kg bw/day
Result	: positive
Symptoms	: malignant tumors

### Reproductive toxicity

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

### Components:

#### calcium carbonate:

Effects on fertility	: Test Type: reproductive and developmental toxicity study Species: Rat, male and female Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative
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Effects on fetal development	: Test Type: Pre-natal Species: Rat Application Route: Oral Method: OECD Test Guideline 414 Result: negative
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#### zinc oxide:

Effects on fertility	: Test Type: Two-generation study Species: Rat, male and female Application Route: Oral Dose: 7.5, 15, 30mg/kg bw/day Frequency of Treatment: 7 days/week General Toxicity Parent: LOAEL: 7.5 mg/kg body weight General Toxicity F1: LOAEL: 30 mg/kg body weight Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials
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	: Test Type: one-generation reproductive toxicity Species: Rat, male Application Route: Oral Dose: 4,000 milligram per liter Frequency of Treatment: 32 daily General Toxicity Parent: LOAEL: 4,000 mg/l
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General Toxicity F1: LOAEL: 4,000 mg/l  
Symptoms: Reduced fertility  
Target Organs: male reproductive organs  
Result: positive  
Remarks: Based on data from similar materials

Effects on fetal development : Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Dose: .0003, 0.002, 0.008 milligram per liter  
Duration of Single Treatment: 14 d  
General Toxicity Maternal: LOAEC: 0.008 mg/L  
Developmental Toxicity: NOAEC: 0.008 mg/L  
Embryo-fetal toxicity.: NOAEC Mating/Fertility: 0.008 mg/L  
Method: OECD Test Guideline 414  
Result: negative

### imidacloprid (ISO):

Effects on fertility : Method: OECD Test Guideline 416  
Result: Animal testing did not show any effects on fertility.

Method: OECD Test Guideline 416  
Result: No effects on fertility and early embryonic development were detected.

Effects on fetal development : Species: Rabbit  
Application Route: Oral  
Dose: 0, 8, 24, 72 mg/kg bw/day  
General Toxicity Maternal: NOAEL: 8 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: No teratogenic effects.  
GLP: yes

Species: Rat  
Dose: 0, 10, 30, 100 mg/kg bw/day  
General Toxicity Maternal: NOEL: 10 mg/kg bw/day  
Embryo-fetal toxicity.: NOEL: 30 mg/kg bw/day  
Method: OECD Test Guideline 414  
GLP: yes

Test Type: Multi-generation study  
Species: Rat  
Application Route: Oral  
Dose: 8, 20, 56 mg/kg bw/day  
General Toxicity Maternal: NOEL: 20 mg/kg body weight  
Developmental Toxicity: NOEL: 20 mg/kg body weight  
Result: No teratogenic effects.  
GLP: yes

### Bifenthrin:

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Oral



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General Toxicity Parent: NOAEL: 3 mg/kg bw/day

General Toxicity F1: NOAEL: 5 mg/kg bw/day

Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 2.7 mg/kg bw/day  
Teratogenicity: NOAEL: 2.7 mg/kg bw/day  
Symptoms: Maternal effects.  
Result: No teratogenic effects.

Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 1 mg/kg bw/day  
Teratogenicity: NOAEL: 2 mg/kg bw/day  
Result: No teratogenic effects.

Species: Rat  
Application Route: Oral  
General Toxicity Maternal: LOAEL: 7.2 mg/kg bw/day  
Developmental Toxicity: LOAEL: 7.2 mg/kg bw/day  
Embryo-fetal toxicity.: NOEL: 9.0 mg/kg bw/day  
Method: OECD Test Guideline 426  
Result: Animal testing did not show any effects on fertility.,  
Some evidence of adverse effects on development, based on  
animal experiments.

### STOT-single exposure

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

#### Components:

##### **Bifenthrin:**

Target Organs	:	Central nervous system
Assessment	:	Causes damage to organs.

### STOT-repeated exposure

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

#### Components:

##### **Bifenthrin:**

Target Organs	:	Central nervous system
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

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### Repeated dose toxicity

#### Components:

##### **calcium carbonate:**

Species	: Rat, male and female
NOAEL	: 1,000 mg/kg
Application Route	: Ingestion
Exposure time	: 48 d
Method	: OECD Test Guideline 422

##### **zinc oxide:**

Species	: Rat, male and female
NOAEL	: 31.52 mg/kg
LOAEL	: 127.52 mg/kg
Application Route	: Oral
Exposure time	: 13 weeks
Dose	: 0, 31.52, 127.52 mg/kg
Method	: OECD Test Guideline 408
Target Organs	: Pancreas
Symptoms	: Necrosis
Remarks	: Based on data from similar materials

Species	: Mouse, male and female
NOEL	: 3000 ppm
Application Route	: Oral
Exposure time	: 13 weeks
Dose	: 0, 300, 3000, 30000 ppm
Method	: OECD Test Guideline 408
Remarks	: Based on data from similar materials

Species	: Rat, male
LOAEL	: 0.0045 mg/l
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 3 months
Dose	: 0.0003, 0.0015, 0.004mg/l
Method	: OECD Test Guideline 413
Target Organs	: Lungs
Remarks	: mortality

Species	: Rat, male and female
LOAEL	: 75 mg/kg bw/day
Application Route	: Dermal
Exposure time	: 28d
Dose	: 0, 75, 180, 360 mg/kg bw/day
Method	: OECD Test Guideline 410

##### **imidacloprid (ISO):**

Species	: Dog
NOEL	: 1200 ppm
Application Route	: Oral - feed
Exposure time	: 90 d

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Method : OECD Test Guideline 409  
GLP : yes

Species : Dog  
LOAEL : 49 mg/kg  
Application Route : Oral - feed  
Exposure time : 28 d  
Dose : 0, 7.3, 31, 49 mg/kg bw/day  
Method : OECD Test Guideline 409  
Symptoms : Tremors, ataxia, Vomiting

Species : Dog, male and female  
NOEL : 72 mg/kg bw/day  
Application Route : Oral - feed  
Exposure time : 52 w  
Dose : 0, 6.1, 15, 41, 72 mg/kg bw/day  
GLP : yes

### **Bifenthrin:**

Species : Rat, male and female  
NOEL : 100 ppm  
Application Route : Oral - feed  
Exposure time : 90 d  
Remarks : No toxicologically significant effects were found.

Species : Dog, male and female  
NOEL : 2.5 mg/kg bw/day  
Application Route : Oral - feed  
Exposure time : 13 w  
Symptoms : Tremors

### **Aspiration toxicity**

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

### **Components:**

#### **imidacloprid (ISO):**

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

#### **Bifenthrin:**

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

### **Experience with human exposure**

### **Components:**

#### **zinc oxide:**

Inhalation : Symptoms: Fatigue, Sweating, bitter taste, chills, dry mouth, flu-like symptoms  
  
Ingestion : Symptoms: Gastrointestinal discomfort

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### Further information

#### Product:

Remarks : No data available

#### Components:

##### **imidacloprid (ISO):**

Remarks : No data available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **calcium carbonate:**

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)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC10 ( Desmodesmus subspicatus (green algae)): > 14 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

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

##### **zinc oxide:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1.55 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 0.76 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

LC50: 0.37 mg/l

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	Exposure time: 96 h Test Type: static test
	EC50: 0.14 mg/l Exposure time: 24 h Test Type: static test
	EC50: 0.072 mg/l Exposure time: 96 h Test Type: static test
Toxicity to algae/aquatic plants	: IC50 ( Pseudokirchneriella subcapitata (algae)): 0.044 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC ( Pseudokirchneriella subcapitata (algae)): 0.024 mg/l Exposure time: 3 d Method: OECD Test Guideline 201
	IC50 ( Skeletonema costatum (marine diatom)): 1.23 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
	IC50: 3.28 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
	NOEC ( Dunaliella tertiolecta (marine algae)): 0.01 mg/l Exposure time: 4 d Test Type: static test
	EC50 ( Dunaliella tertiolecta (marine algae)): 0.65 mg/l Exposure time: 4 d Test Type: static test
	( Chlorella vulgaris (Fresh water algae)): 1.16 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	EC50 ( Anabaena flos-aquae (cyanobacterium)): 0.3 mg/l Exposure time: 96 h Test Type: static test
	EC50: 0.69 mg/l Exposure time: 3 d Test Type: static test
	EC50 ( Phaeodactylum tricornutum): 1.12 mg/l Exposure time: 24 h Test Type: static test
M-Factor (Acute aquatic toxicity)	: 1

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Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

EC50 (Tetrahymena pyriformis): 7.1 mg/l  
Exposure time: 24 h  
Test Type: Growth inhibition

Toxicity to fish (Chronic toxicity) : NOEC: 0.440 mg/l  
Exposure time: 72 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test  
Remarks: Based on data from similar materials

NOEC: 0.026 mg/l  
Exposure time: 30 d  
Species: Jordanella floridae (flagfish)  
Method: OECD Test Guideline 210  
Remarks: Based on data from similar materials

NOEC: 0.530 mg/l  
Exposure time: 1,095 d  
Species: Salvelinus fontinalis (Brook trout)  
Test Type: flow-through test  
Remarks: Based on data from similar materials

NOEC: 0.056 mg/l  
Exposure time: 116 d  
Species: Salmo trutta (brown trout)  
Method: OECD Test Guideline 210  
Remarks: Based on data from similar materials

NOEC: 0.025 mg/l  
Exposure time: 27 d  
Species: Fish  
Test Type: semi-static test  
Remarks: Based on data from similar materials

NOEC: 0.078 mg/l  
Exposure time: 248 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: flow-through test  
Remarks: Based on data from similar materials

NOEC: 0.050 mg/l  
Exposure time: 155 d  
Species: Fish  
Test Type: flow-through test  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic) : LOEC: 0.125 mg/l  
Exposure time: 21 d

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ic toxicity) Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : NOEC: 750 mg/kg  
Exposure time: 21 d  
Species: *Eisenia fetida* (earthworms)

### imidacloprid (ISO):

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): > 105 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: EPA OPP 72-1  
GLP: yes

LC50 (*Salmo gairdneri*): 158 - 281 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 83 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: EPA OPP 72-1  
GLP: yes

LC50 (*Cyprinodon variegatus* (sheepshead minnow)): 161 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: yes

LC50 (*Leuciscus idus* (Golden orfe)): 178 - 316 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 85 mg/l  
Exposure time: 48 h  
Method: US EPA Test Guideline OPP 72-2  
GLP: yes

EC50 (*Americamysis bahia* (mysid shrimp)): 0.0341 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: US EPA Test Guideline OPP 72-3  
GLP: yes

LC50 (*Hyalella azteca* (Amphipod)): 0.526 mg/l

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		Exposure time: 96 h Method: US EPA Test Guideline OPP 72-2 GLP: yes
		NOEC ( <i>Crassostrea virginica</i> (atlantic oyster)): 23.3 mg/l Exposure time: 96 h Method: US EPA Test Guideline OPP 72-3 GLP: yes
Toxicity to algae/aquatic plants	:	EbC50 ( <i>Scenedesmus subspicatus</i> ): > 10 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes
		NOEC ( <i>Scenedesmus capricornutum</i> (fresh water algae)): > 119 mg/l Exposure time: 5 d Method: US EPA Test Guideline OPP 122-2 & 123-2
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to microorganisms	:	IC50 (activated sludge): > 10000 GLP:
Toxicity to fish (Chronic toxicity)	:	NOEC: 28.5 mg/l Exposure time: 21 d Species: <i>Salmo gairdneri</i> Method: OECD Test Guideline 204 GLP: yes
		NOEC: 9.8 mg/l End point: Growth Exposure time: 98 d Species: <i>Oncorhynchus mykiss</i> (rainbow trout) Test Type: Early Life-Stage Method: US EPA Test Guideline OPP 72-4 GLP: yes
		NOEC: 9.02 mg/l End point: Hatching success Species: <i>Oncorhynchus mykiss</i> (rainbow trout) Test Type: flow-through test Method: OECD Test Guideline 210 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 1.8 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea) Test Type: semi-static test Method: US EPA Test Guideline OPP 72-4 GLP: yes



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EC10: 0.00209 mg/l  
Exposure time: 28 d  
Species: Chironomus riparius (harlequin fly)

NOEC: 0.67 µg/l  
End point: Growth  
Exposure time: 10 d  
Species: Chironomus tentans  
Test Type: Static renewal test  
GLP: yes

NOEC: 0.064 mg/l  
End point: Swimming behavior  
Exposure time: 28 d  
Species: Gammarus pulex  
Test Type: static test  
Method: OECD 219  
GLP: yes

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to soil dwelling organisms : LC50: 10.7 mg/kg dry weight (d.w.)  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: 31 mg/kg  
Species: Coturnix japonica (Japanese quail)

LD50: 2,225 ppm  
Exposure time: 5 d  
Species: Coturnix japonica (Japanese quail)

LD50: 0.0037 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)

LD50: 0.0081 µg/bee  
Exposure time: 48 h  
Species: Apis mellifera (bees)

### Ecotoxicology Assessment

Other organisms relevant to the environment : Harmful to bees.

### Bifenthrin:

Toxicity to fish : LC50 (Salmo gairdneri): 0.00015 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.00035 mg/l

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		Exposure time: 96 h Test Type: flow-through test
		LC50 (Oncorhynchus mykiss (rainbow trout)): 0.000256 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
		LC50 (Pimephales promelas (fathead minnow)): 0.000234 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia): 0.00011 mg/l Exposure time: 48 h
		LC50 (Daphnia): 0.0016 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (algae): 0.822 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	:	1,000
Toxicity to fish (Chronic toxicity)	:	NOEC: 0.00012 mg/l Exposure time: 21 d Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.0013 µg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
		NOEC: 0.00095 µg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
M-Factor (Chronic aquatic toxicity)	:	100,000
Toxicity to soil dwelling organisms	:	LD50: > 16 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms)
		Method: OECD Test Guideline 216 Remarks: No significant adverse effect on Nitrogen mineralization.
Toxicity to terrestrial organisms	:	LD50: 1,800 mg/kg Species: Colinus virginianus (Bobwhite quail)

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LD50: > 2,150 mg/kg  
Species: Anas platyrhynchos (Mallard duck)

LD50: 0.1 - 0.35 µg/bee  
Exposure time: 24 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 213

LD50: 0.1 - 0.3 µg/bee  
Exposure time: 24 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 214

### Persistence and degradability

#### Components:

##### **calcium carbonate:**

Biodegradability : Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **zinc oxide:**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

##### **imidacloprid (ISO):**

Biodegradability : Result: Not readily biodegradable.

##### **Bifenthrin:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life (DT50): 2.2 d  
Hydrolysis: at 60 °C

Degradation half life (DT50): 15.6 d  
Hydrolysis: at 40 °C

### Bioaccumulative potential

#### Components:

##### **zinc oxide:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Exposure time: 14 d  
Bioconcentration factor (BCF): 2,060  
Remarks: Bioaccumulation is unlikely.

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### imidacloprid (ISO):

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: 0.33 (20 °C)  
Method: OECD Test Guideline 107

### Bifenthrin:

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)  
Bioconcentration factor (BCF): 1,709  
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.  
See section 9 for octanol-water partition coefficient.

Partition coefficient: n-octanol/water : log Pow: 6.6

### Mobility in soil

#### Components:

### imidacloprid (ISO):

Distribution among environmental compartments : Koc: 109 - 411  
Remarks: Mobile in soils

### Bifenthrin:

Distribution among environmental compartments : Koc: 236610 ml/g, log Koc: 5.37  
Remarks: immobile

Stability in soil :

### Other adverse effects

#### Product:

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

---

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

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

Contaminated packaging : It is prohibited to reuse, bury, burn, or sell containers. Rins-

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ble containers: Triple rinse containers of less than 20 liters and pressure rinse containers of 20 liters or more. Triple rinsing: Add water up to  $\frac{1}{4}$  of the container's capacity, close and shake for 30 seconds. Pour the rinse water into the mixing tank, considering this volume of water within the recommended volume for mixing preparation. Perform this procedure three times. Pressure rinsing: Activate the pressure rinsing device for 30 seconds, considering the volume of water used as part of the recommended volume for mixing preparation. In both procedures, punctured the container on its base without damaging the label. In all cases, take the empty containers to collection points indicated by the local empty containers program.

### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bifenthrin, Imidacloprid)
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. (Bifenthrin, Imidacloprid)
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. (Bifenthrin, Imidacloprid)
Class	: 9
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: yes

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### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

---

## 15. REGULATORY INFORMATION

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

#### 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.  imidacloprid (ISO) Bifenthrin
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

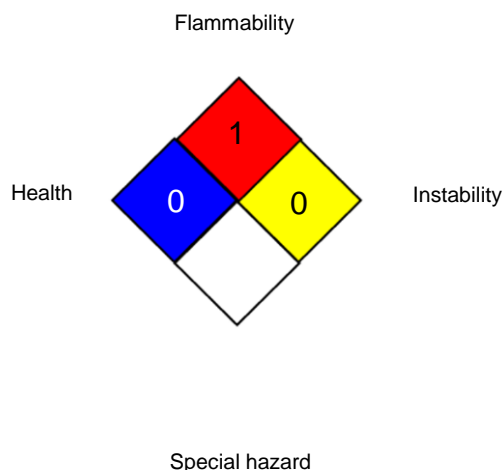
Revision Date	: 28.04.2025
Date format	: dd.mm.yyyy

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**Further information**

**NFPA:**



**HMIS® IV:**

<b>HEALTH</b>	<b>/</b>	<b>0</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

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 Tem-

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according to the Globally Harmonized System



## ALLECTUS® 0.7 GR

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perature; 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

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