

# SAFETY DATA SHEET



## ALLECTUS® 0.7 GR

Version	Revision Date:	SDS Number:	Date of last issue: -
3.0	28.04.2025	50001327	Date of first issue: 10.06.2021

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

**Product name** ALLECTUS® 0.7 GR

**Other means of identification**

**Product code** 50001327

**Product Registration Number** RSCO-IND-INAC-199-301-019-96

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

**Recommended use** Insecticide

**Restrictions on use** Use as recommended by the label.

**Manufacturer or supplier's details****Manufacturer**

FMC AGROQUÍMICA DE MÉXICO,  
S. DE R.L. DE C.V AV. VALLARTA NO.  
6503, LOCAL A1-6, COL. CD. GRANJA,  
45010 ZAPOPAN, JALISCO, MÉXICO  
TEL.: 800 FMC AGRO (362 2476)  
CONTACTOMEXICO@FMC.COM  
SDS-Info@fmc.com

**Emergency telephone**

For leak, fire, spill or accident emergencies, call:  
800-681-9531 (CHEMTREC - Mexico)  
1 703 / 741-5970 (CHEMTREC - International)

Medical emergency:  
911

SINTOX (Toxicological Information Service): 800 009 2800; 55 5611 2634 and 55 5598 6659, service 24 hours a day, 365 days a year.

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### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

**Other hazards**

Very toxic to aquatic life with long lasting effects.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
calcium carbonate	471-34-1	$\geq 90$ - $\leq 100$
Bifenthrin	82657-04-3	$\geq 0.1$ - $< 1$
imidacloprid (ISO)	138261-41-3	$\geq 0.1$ - $\leq 1$
zinc oxide	1314-13-2	$\geq 0.1$ - $\leq 1$

## SECTION 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.  
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.
- In case of poisoning, call the emergency numbers SINTOX (control center of intoxications): 800-00-928-00; (55) 5611 2634 and (55) 5598 6659, 24-hour service on 365 days of the year. For emergencies: 911.

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.

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|--|---|--|
| 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.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>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 | : | Firefighters should wear protective clothing and self-contained breathing apparatus.   |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |   |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | If it can be safely done, stop the leak.<br>Do not touch or walk through the spilled material.<br>Use personal protective equipment.<br>Evacuate personnel to safe areas.<br>Avoid dust formation.<br>Avoid breathing dust.<br>Ensure adequate ventilation.   |
| Environmental precautions   | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>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.<br><br>For further cleaning instructions call CHEMTREC, 800-681-9531. |

### SECTION 7. HANDLING AND STORAGE

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|---|---|
| Advice on protection against fire and explosion | : Avoid dust formation.<br>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.<br>Dispose of rinse water in accordance with local and national regulations.<br>Avoid formation of respirable particles.<br>For personal protection see section 8.<br><br>For incompatible materials see section 10. |
| Hygiene measures                                | : Avoid contact with skin, eyes and clothing.<br>Do not breathe dust.<br>When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.   |
| Conditions for safe storage                     | : Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Electrical installations / working materials must comply with the technological safety standards.                           |
| Further information on storage stability        | : No decomposition if stored and applied as directed.   |

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 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<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. |

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

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### SECTION 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
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

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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

### SECTION 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.

### SECTION 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

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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  
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

#### **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

#### **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

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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  
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



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### **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

### **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

#### **Bifenthrin:**

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

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

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

#### **zinc oxide:**

Species	:	reconstructed human epidermis (RhE)
Method	:	OECD Test Guideline 431

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Result : No skin irritation

### 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.

#### Components:

##### calcium carbonate:

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

##### Bifenthrin:

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

##### imidacloprid (ISO):

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

##### zinc oxide:

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

### 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

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### **Components:**

#### **calcium carbonate:**

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

#### **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

#### **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

#### **zinc oxide:**

Test Type	: Maximization Test
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.

### **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

#### **Bifenthrin:**

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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

### **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

### **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  
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

### **Carcinogenicity**

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

### **Components:**

#### **Bifenthrin:**

Species : Rat, female  
Application Route : Oral

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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

### **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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### **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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#### **Bifenthrin:**

Effects on fertility	: Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity Parent: NOAEL: 3 mg/kg bw/day General Toxicity F1: NOAEL: 5 mg/kg bw/day Result: negative
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Effects on fetal development	: Test Type: Embryo-fetal development Species: Rabbit Application Route: Oral
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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.

### 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

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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

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  
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

### 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



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toxicant, repeated exposure, category 1.

### 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

##### **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

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

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

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

Species	: Rat, male and female
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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

### Aspiration toxicity

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

### Components:

#### **Bifenthrin:**

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

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

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
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Ingestion : Symptoms: Gastrointestinal discomfort

### Further information

#### Product:

Remarks : No data available

#### Components:

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

Remarks : No data available

---

## SECTION 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 (Eisenia fetida (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 207

##### **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  
Exposure time: 96 h  
Test Type: flow-through test

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.000256 mg/l  
Exposure time: 96 h

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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

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.00012 mg/l  
Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.0013 µg/l  
Exposure time: 21 d

NOEC (Daphnia magna (Water flea)): 0.00095 µg/l  
Exposure time: 21 d

Toxicity to soil dwelling organisms : LD50 (Eisenia fetida (earthworms)): > 16 mg/kg  
Exposure time: 14 d

Method: OECD Test Guideline 216  
Remarks: No significant adverse effect on Nitrogen mineralization.

Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): 1,800 mg/kg

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

LD50 (Apis mellifera (bees)): 0.1 - 0.35 µg/bee

Exposure time: 24 h

End point: Acute oral toxicity

Method: OECD Test Guideline 213

LD50 (Apis mellifera (bees)): 0.1 - 0.3 µg/bee

Exposure time: 24 h

End point: Acute contact toxicity

Method: OECD Test Guideline 214

**imidacloprid (ISO):**

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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 (Hyalomma azteca (Amphipod)): 0.526 mg/l  
Exposure time: 96 h  
Method: US EPA Test Guideline OPP 72-2  
GLP: yes

NOEC (Crassostrea virginica (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 (Scenedesmus subspicatus): > 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

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		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
Toxicity to fish (Chronic toxicity)	:	NOEC ( <i>Salmo gairdneri</i> ): 28.5 mg/l Exposure time: 21 d Method: OECD Test Guideline 204 GLP: yes
		NOEC ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 9.8 mg/l End point: Growth Exposure time: 98 d Test Type: Early Life-Stage Method: US EPA Test Guideline OPP 72-4 GLP: yes
		NOEC ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 9.02 mg/l End point: Hatching success Test Type: flow-through test Method: OECD Test Guideline 210 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC ( <i>Daphnia magna</i> (Water flea)): 1.8 mg/l Exposure time: 21 d Test Type: semi-static test Method: US EPA Test Guideline OPP 72-4 GLP: yes
		EC10 ( <i>Chironomus riparius</i> (harlequin fly)): 0.00209 mg/l Exposure time: 28 d
		NOEC ( <i>Chironomus tentans</i> ): 0.67 µg/l End point: Growth Exposure time: 10 d Test Type: Static renewal test GLP: yes
		NOEC ( <i>Gammarus pulex</i> ): 0.064 mg/l End point: Swimming behavior Exposure time: 28 d Test Type: static test Method: OECD 219 GLP: yes
Toxicity to microorganisms	:	IC50 (activated sludge): > 10000
Toxicity to soil dwelling organisms	:	LC50 ( <i>Eisenia fetida</i> (earthworms)): 10.7 mg/kg dry weight (d.w.) Exposure time: 14 d
Toxicity to terrestrial organisms	:	LD50 ( <i>Coturnix japonica</i> (Japanese quail)): 31 mg/kg

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

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

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

### Ecotoxicology Assessment

Other organisms relevant to the environment : Harmful to bees.

#### 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  
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

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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

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

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

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

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

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

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



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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : LOEC (Daphnia magna (Water flea)): 0.125 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

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

### Persistence and degradability

#### Components:

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

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

##### **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

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

Biodegradability : Result: Not readily biodegradable.

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

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

### Bioaccumulative potential

#### Components:

##### **Bifenthrin:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

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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

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

Bioaccumulation : Remarks: Low potential for bioaccumulation

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

### **zinc oxide:**

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

### **Mobility in soil**

#### **Components:**

##### **Bifenthrin:**

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

Stability in soil :

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

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

### **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.

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Appropriate personal protective equipment, as described in Sections 7 and 8, should be worn when handling materials for waste disposal.

The product should not be allowed to enter drains, water

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courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Containers must be disposed of in accordance with local, state and federal regulations. It is prohibited to reuse, bury, burn or sell containers. Washable containers: Triple wash containers smaller than 20 liters and pressure wash containers of 20 liters or more. Triple wash: Add water up to ¼ of the container's capacity, close and shake for 30 seconds. Pour the wash water into the mixing tank, considering this volume of water within the recommended volume for mixing. Perform this procedure three times. Pressure washing: Activate the pressure washing device for 30 seconds, considering the volume of water used as part of the recommended volume for the mixture. For both procedures, make the container unusable by piercing it at the base without damaging the label. Non-washable containers: Containers that cannot be washed, make them unusable by perforating them without damaging the label. In all cases, deliver the containers to collection points indicated by the local container collection program. For more information on the Empty Pesticide Container Management Plan, visit <http://campolimpio.org.mx/>.

### SECTION 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

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### 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

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

Not applicable for product as supplied.

### Domestic regulation

#### NOM-002-SCT

UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bifenthrin, Imidacloprid)

Class	: 9
Packing group	: III
Labels	: 9

### 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.

---

## SECTION 15. REGULATORY INFORMATION

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

This document has been prepared in accordance with the Globally Harmonized System (GHS). The document consists of 16 points that cover the Official Mexican STANDARD NOM-018-STPS-2015 Harmonized system for the identification and communication of hazards and risks due to dangerous chemical substances in the workplace. 271000

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Federal Law for the control of chemical precursors, : Not applicable  
essential chemical products and machinery for producing capsules, tablets and pills.

### 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.

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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

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### SECTION 16. OTHER INFORMATION

Revision Date	: 28.04.2025
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#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median

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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

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