

# SAFETY DATA SHEET



**AVAUNT®**

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## SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY OR UNDERTAKING

Chemical product identification : AVAUNT®

### Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Insecticide

Restrictions on use : Use as recommended by the label.

### Details of the supplier of the safety data sheet

Company name of supplier : FMC QUIMICA CHILE LTDA

Supplier's address : AVDA VITACURA 2670,  
PISO 15, LAS CONDES,  
VITACURA, SANTIAGO, CHILE  
+56 2 28204200

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

Emergency and toxicological information number in Chile : Chile: Spills: CITUC: +56 2 2247 3600 (24 hours) Fire: 132 (24 hours)  
+56-22-5814934 (CHEMTREC - Chile)  
1 703 / 741-5970 (CHEMTREC - International)

Medical Emergency Number : Chile: CITUC: +56 2 2635 3800 (24 hours)

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## SECTION 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Acute toxicity (Oral) : Category 4

Specific target organ toxicity - single exposure : Category 2 (Central nervous system)

Specific target organ toxicity - repeated exposure : Category 1 (Heart, Nervous system, Blood)

Long-term (chronic) aquatic hazard : Category 1

### Label elements

Hazard pictograms :



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Signal Word : DANGER

Hazard Statements : H302 Harmful if swallowed.  
H371 May cause damage to organs (Central nervous system).  
H372 Causes damage to organs (Heart, Nervous system, Blood) through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P260 Do not breathe dust.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.

**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.  
P391 Collect spillage.

**Storage:**  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

## Other hazards

None known.

## SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Systematic chemical name	Common Name	CAS-No.	Concentration or range (% w/w)	Classification
Lignin, alkali, reaction products with formaldehyde and sodium bisulfite	Lignin, alkali, reaction products with formaldehyde and sodium bisulfite	68512-35-6	>= 30 - < 50	Serious eye damage/eye irritation, Category 2
indoxacarb (ISO)	indoxacarb (ISO)	173584-44-6	>= 25 - < 30	Acute toxicity (Oral), Category 3 Acute toxicity (Inhalation), Category 4 Skin sensitization, Sub-category 1B Specific target organ toxicity - single expo-

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				sure (Central nervous system), Category 2 Specific target organ toxicity - repeated exposure (Heart, Nervous system, Blood), Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1
Silicon dioxide	Silicon dioxide	112926-00-8	>= 10 - < 20	Not Classified

## 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.
- Inhalation : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- Skin contact : Wash off with soap and water.  
If symptoms persist, call a physician.  
Wash contaminated clothing before re-use.
- 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.
- Ingestion : Do not induce vomiting without medical advice.  
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.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.  
May cause damage to organs.  
Causes damage to organs through prolonged or repeated exposure.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
Avoid inhalation, ingestion and contact with skin and eyes.  
If potential for exposure exists refer to Section 8 for specific

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personal protective equipment.

Notes to physician : Treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.
- Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Chlorinated compounds  
Fluorinated compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Hydrogen cyanide  
Hydrogen chloride  
Hydrogen fluoride
- Related specific hazards : Do not allow run-off from fire fighting to enter drains or water courses.
- 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.
- Recommendations 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 : Evacuate personnel to safe areas.  
Do not touch or walk through the spilled material.  
If it can be safely done, stop the leak.  
Ensure adequate ventilation.  
Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.

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For disposal considerations see section 13.

- 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 material 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.

## SECTION 7. HANDLING AND STORAGE

### Handling

- Precautions for safe handling : Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.
- Operational and technical measures : Provide appropriate exhaust ventilation at places where dust is formed.
- Contact prevention : 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.

### Conditions for safe storage, including any incompatibilities

- 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.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Technical measures : The product is stable under normal conditions of warehouse storage.  
Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthor-

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ised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

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

### Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible maximum concentration	Basis
Silicon dioxide	112926-00-8	LPP (respirable dust fraction)	0,16 mg/m <sup>3</sup>	CL OEL
		LPP	5,3 mg/m <sup>3</sup>	CL OEL

### Personal protective equipment

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

Skin protection : Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

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

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

Filter type : Particulates type

Protective measures : Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.  
In the context of professional plant protection use as recom-

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

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state	:	solid
Form	:	dry, free flowing granules
Color	:	dark brown
Odor	:	mild, woody
Odor Threshold	:	not determined
pH	:	7,5 (20 °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
Flammability (solid, gas)	:	Does not sustain combustion.
Upper explosion limit / Upper flammability limit	:	Not available for this mixture.
Lower explosion limit / Lower flammability limit	:	Not available for this mixture.
Vapor pressure	:	Not available for this mixture.
Vapor density	:	Not applicable
Relative density	:	0,8
Density	:	No data available
Solubility(ies) Water solubility	:	dispersible

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

Autoignition temperature : No data available

Decomposition temperature : not determined

### Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : not determined

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

### Other information

Bulk density : 800 kg/m<sup>3</sup>

Surface tension : Not applicable

Molecular weight : Not applicable

Self-ignition : not auto-flammable

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## 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 : Dust may form explosive mixture in air.  
No decomposition if stored and applied as directed.

Conditions to avoid : Avoid dust formation.  
Heat, flames and sparks.  
Avoid extreme temperatures.

Incompatible materials : Avoid strong acids, bases, and oxidizers.

Hazardous decomposition products : Stable under recommended storage conditions.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if swallowed.



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### **Product:**

Acute oral toxicity	:	LD50(Rat, male): 1.876 mg/kg Method: OECD Test Guideline 401  LD50(Rat, female): 687 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50(Rat): > 5,6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50(Rat): > 5.000 mg/kg Method: OECD Test Guideline 402

### **Components:**

#### **Lignin, alkali, reaction products with formaldehyde and sodium bisulfite:**

Acute oral toxicity	:	LD50 (Rat, male and female): > 5.000 mg/kg
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#### **indoxacarb (ISO):**

Acute oral toxicity	:	LD50 (Rat, male and female): 281 - 291 mg/kg Method: OECD Test Guideline 420 Symptoms: ataxia, Tremors, Diarrhea, clonic convulsions GLP: yes  LD50 (Rat, female): 179 mg/kg Method: OECD Test Guideline 401 Target Organs: Nervous system Symptoms: hypoactivity, Tremors, ataxia, Fatality GLP: yes
Acute inhalation toxicity	:	LC50 (Rat, female): 4,2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: nasal discharge, lethargy GLP: yes
Acute dermal toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal toxicity

#### **Silicon dioxide:**

Acute oral toxicity	:	LD50 (Rat, male and female): > 5.000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials
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Acute inhalation toxicity : LC0 (Rat, male and female): > 0,14 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: Based on data from similar materials  
no mortality

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Remarks: Based on data from similar materials

### Skin corrosion/irritation

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

#### Product:

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

#### Components:

##### **Lignin, alkali, reaction products with formaldehyde and sodium bisulfite:**

Result : No skin irritation

##### **indoxacarb (ISO):**

Species : Rabbit  
Assessment : Not classified as irritant  
  
Method : OECD Test Guideline 404  
Result : slight irritation  
GLP : yes

##### **Silicon dioxide:**

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

### Serious eye damage or eye irritation

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

#### Product:

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

#### Components:

##### **Lignin, alkali, reaction products with formaldehyde and sodium bisulfite:**

Result : Moderate eye irritation

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## **indoxacarb (ISO):**

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 405
Result	:	slight irritation
GLP	:	yes
Remarks	:	Product dust may be irritating to eyes, skin and respiratory system.

## **Silicon dioxide:**

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

## **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	:	Maximization Test
Species	:	Guinea pig
Assessment	:	Did not cause sensitization on laboratory animals.
Method	:	OECD Test Guideline 406

### **Components:**

#### **Lignin, alkali, reaction products with formaldehyde and sodium bisulfite:**

Species	:	Guinea pig
Result	:	Not a skin sensitizer.

## **indoxacarb (ISO):**

Test Type	:	Local lymph node assay (LLNA)
Routes of exposure	:	Skin contact
Species	:	Mouse
Assessment	:	The product is a skin sensitizer, sub-category 1B.
Method	:	OECD Test Guideline 429
Result	:	May cause sensitization by skin contact.
GLP	:	yes

Test Type	:	Maximization Test
Species	:	Guinea pig
Assessment	:	May cause sensitization by skin contact.
Method	:	US EPA Test Guideline OPPTS 870.2600
Result	:	May cause sensitization by skin contact.
GLP	:	yes

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**Germ cell mutagenicity**

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

**Components:****Lignin, alkali, reaction products with formaldehyde and sodium bisulfite:**

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

**indoxacarb (ISO):**

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

Test Type: gene mutation test  
Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative

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

**Silicon dioxide:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Species: Rat (male)  
Application Route: Inhalation  
Result: negative  
Remarks: Based on data from similar materials

**Carcinogenicity**

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

**Components:****indoxacarb (ISO):**

Species : Rat, female  
Application Route : Oral  
Exposure time : 24 m  
: 2,13 mg/kg bw/day  
Result : negative

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

## **Silicon dioxide:**

Species : Rat  
Application Route : Oral  
Exposure time : 103 weeks  
Method : OECD Test Guideline 453  
Result : negative  
Remarks : Based on data from similar materials

## **Reproductive toxicity**

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

## **Components:**

### **indoxacarb (ISO):**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Result: Animal testing did not show any effects on fertility.

Effects on fetal development : Species: Rabbit  
General Toxicity Maternal: NOEL: 500 mg/kg bw/day  
Developmental Toxicity: NOEL: 500 mg/kg bw/day  
Method: EPA OPP 83-3

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.  
Animal testing did not show any effects on fetal development.

## **Silicon dioxide:**

Effects on fertility : Species: Rat  
General Toxicity Parent: NOAEL: 1,5 mg/kg bw/day  
Fertility: NOAEL: > 6,9 mg/kg body weight

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 2 mg/kg bw/day  
Embryo-fetal toxicity.: NOAEL: 2 mg/kg bw/day  
Symptoms: Reduced fetal weight., Reduced number of viable fetuses.

Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 500 mg/kg bw/day  
Embryo-fetal toxicity.: NOAEL: 500 mg/kg bw/day  
Symptoms: Reduced fetal weight., fused or incompletely ossified sternebrae

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### Specific particular organ toxicity - single exposure

May cause damage to organs (Central nervous system).

#### Components:

##### **indoxacarb (ISO):**

Target Organs	: Central nervous system
Assessment	: The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.

### Specific particular organ toxicity - repeated exposure

Causes damage to organs (Heart, Nervous system, Blood) through prolonged or repeated exposure.

#### Components:

##### **indoxacarb (ISO):**

Target Organs	: Blood, Nervous system
Assessment	: Causes damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

#### Components:

##### **indoxacarb (ISO):**

Species	: Rat, female
NOAEL	: 1,7 mg/kg
LOAEL	: 4,1 mg/kg
Application Route	: Oral
Exposure time	: 90 d
Method	: OECD Test Guideline 408
GLP	: yes
Target Organs	: Blood

##### **Silicon dioxide:**

Species	: Rat, male and female
NOAEL	: 2.500 mg/kg
Application Route	: Oral
Exposure time	: 13 weeks
Method	: OECD Test Guideline 408
Remarks	: Based on data from similar materials

Species	: Rat, male and female
NOAEL	: 1,3 - 10 mg/l
LOAEL	: 5,9 mg/l
Application Route	: Inhalation
Exposure time	: 13 weeks
Method	: OECD Test Guideline 413
Remarks	: Based on data from similar materials

### Inhalation hazard

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

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## Further information

### Product:

Remarks	:	Acute effects on nervous system: drowsiness, tremors, paralysis. Chronic effects include cyanosis
Remarks	:	No data available

### Components:

#### **indoxacarb (ISO):**

Remarks	:	Acute effects on nervous system: drowsiness, tremors, paralysis. Chronic effects include cyanosis
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## SECTION 12. ECOLOGICAL INFORMATION

### Toxicity

#### Product:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 1,8 mg/l Exposure time: 96 h Test Type: Static renewal test Method: OECD Test Guideline 203 GLP: yes  LC50 (Lepomis macrochirus (Bluegill sunfish)): 3,2 mg/l Exposure time: 96 h Test Type: Static renewal test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,7 mg/l Exposure time: 48 h Test Type: Static renewal test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EbC50 (Pseudokirchneriella subcapitata (green algae)): > 1,2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes Remarks: No toxicity at the limit of solubility.
Toxicity to soil dwelling organisms	:	Method: OECD Test Guideline 217 GLP: yes Remarks: No significant adverse effect on Carbon mineralization.  Method: OECD Test Guideline 216 GLP: yes Remarks: No significant adverse effect on Nitrogen mineralization.

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Toxicity to terrestrial organisms : LD50: 593 mg/kg  
Species: *Colinus virginianus* (Bobwhite quail)  
Method: US EPA Test Guideline OPP 71-1  
GLP: yes

LD50: 0,53 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: *Apis mellifera* (bees)  
Method: OECD Test Guideline 214  
GLP: yes

LD50: 0,73 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: *Apis mellifera* (bees)  
Method: OECD Test Guideline 213  
GLP: yes

### Components:

#### **Lignin, alkali, reaction products with formaldehyde and sodium bisulfite:**

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

#### **indoxacarb (ISO):**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0,65 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes

LC50 (*Oncorhynchus mykiss* (rainbow trout)): >0.17  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes

LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 0,90 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 0.17 mg a.i./kg  
Exposure time: 48 h  
Test Type: flow-through test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : NOEC (*Pseudokirchneriella subcapitata* (algae)): 0,0793 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition



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Method: OECD Test Guideline 201  
GLP: yes

EbC50 ( Lemna gibba (duckweed)): 0,084 mg/l  
Exposure time: 7 d

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0,15 mg/l  
Exposure time: 90 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: Early Life-Stage  
Method: OECD Test Guideline 210  
GLP: yes

NOEC: 0,0675 mg/l  
Exposure time: 28 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: Early Life-Stage  
Method: OECD Test Guideline 210  
GLP: yes

LOEL: 0,0417 mg/l  
Exposure time: 35 d  
Species: Cyprinodon variegatus (sheepshead minnow)  
Test Type: flow-through test  
Method: US EPA Test Guideline OPP 72-4

NOEL: 0,0169 mg/l  
Exposure time: 35 d  
Species: Cyprinodon variegatus (sheepshead minnow)  
Test Type: flow-through test  
Method: US EPA Test Guideline OPP 72-4

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,09 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202  
GLP: yes

NOEC: 0,0351 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: Static renewal test  
Method: OECD Test Guideline 211  
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : LC50: > 1.250 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

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Method: OECD Test Guideline 207  
GLP: yes

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

Method: OECD Test Guideline 217  
Remarks: No significant adverse effect on Carbon mineralization.

Toxicity to terrestrial organisms : NOEL: 0,048 µg/bee  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 214

NOEL: 0,163 µg/bee  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 213

LD50: 0,232 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 213

LD50: 0,068 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 214

LD50: 98 mg/kg  
Species: Colinus virginianus (Bobwhite quail)  
Method: US EPA Test Guideline OPP 71-1  
GLP: yes

NOEC: 720 ppm  
Exposure time: 147 d  
End point: Reproduction Test  
Species: Anas platyrhynchos (Mallard duck)  
Method: OECD Test Guideline 206  
GLP: yes

NOEC: 144 ppm  
Exposure time: 147 d  
End point: Reproduction Test  
Species: Colinus virginianus (Bobwhite quail)  
Method: OECD Test Guideline 206

NOEC: 562 ppm  
Exposure time: 5 d  
Species: Anas platyrhynchos (Mallard duck)

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Method: US EPA Test Guideline OPP 71-2  
Remarks: Dietary

LC50: > 5.620 ppm  
Exposure time: 5 d  
Species: *Anas platyrhynchos* (Mallard duck)  
Method: US EPA Test Guideline OPP 71-2  
Remarks: Dietary

NOEC: 316 ppm  
Exposure time: 5 d  
Species: *Colinus virginianus* (Bobwhite quail)  
Method: US EPA Test Guideline OPP 71-1  
Remarks: Dietary

LC50: 808 ppm  
Exposure time: 5 d  
Species: *Colinus virginianus* (Bobwhite quail)  
Method: US EPA Test Guideline OPP 71-2  
Remarks: Dietary

### Silicon dioxide:

Toxicity to fish : LC50 (*Brachydanio rerio* (zebrafish)): > 10.000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 10.000 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOELR ( *Desmodesmus subspicatus* (green algae)): 10.000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### Persistence and degradability

#### Components:

#### Lignin, alkali, reaction products with formaldehyde and sodium bisulfite:

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

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### indoxacarb (ISO):

Biodegradability : Result: Not readily biodegradable.

### Silicon dioxide:

Biodegradability : Result: Not biodegradable  
Remarks: Based on data from similar materials

### Bioaccumulative potential

#### Components:

### indoxacarb (ISO):

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Exposure time: 21 d  
Bioconcentration factor (BCF): 77,3  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 4,52 (20 °C)  
Method: OECD Test Guideline 107  
GLP: yes

### Silicon dioxide:

Bioaccumulation : Bioconcentration factor (BCF): 3,16  
Remarks: Based on data from similar materials

### Mobility in soil

#### Components:

### indoxacarb (ISO):

Distribution among environmental compartments : Koc: 4483 ml/g, log Koc: 3,65  
Remarks: Low mobility in soil.

Kd: 46 - 150

Stability in soil :

### Other adverse effects

#### Product:

Additional ecological information : Environmental hazards  
This product is toxic to fish.  
Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.  
Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.  
Do not apply where/when conditions favour runoff.  
Run-off from treated areas may be hazardous to aquatic organisms in neighboring areas.  
Very toxic to bees.

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Do not apply this product while bees are actively visiting the treatment area.  
See product label for additional application instructions relating to environmental precautions.

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

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

## **Components:**

### **indoxacarb (ISO):**

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**

### **Waste treatment 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, and contaminated material : Empty remaining contents.  
Do not re-use empty containers.  
Packaging that is not properly emptied must be disposed of as the unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

It is prohibited to reuse, bury, burn, or sell containers. Rinsable containers: Triple rinse containers of less than 20 liters and pressure rinse containers of 20 liters or more. Triple rinsing: Add water up to ¼ 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.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

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

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. (Indoxacarb)

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. (Indoxacarb)

Class	: 9
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
Marine pollutant	: yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### Domestic regulation

#### NCh382

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

Class	: 9
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Packing group : III  
Labels : 9  
Environmentally hazardous : yes

## 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

### National Regulations

Chile. Decree 190. Carcinogenic Substances, Hazardous Waste Management. : Not applicable

Decree 1358 - Establishment of rules governing the control measures of precursors and essential chemicals. : Not applicable

Resolution 408/16 Exempt, Approving List of Health Hazardous Substances : Included in list of Article 3, item a)

### Other regulations

Decree 43/2015, Approving Regulation on Storage of Hazardous Substances  
NCh 2245:2021 Safety data sheet for chemical products - Content and order of sections  
NCh 2190:2019 Land transport of dangerous goods - Hazard identification marks  
NCh 382:2021 Dangerous Goods – Classification  
Decree 57 of 2019, Regulation on Classification, Labeling, and Notification of Hazardous Chemicals and Mixtures  
D.S. 148/03 Sanitary Regulation on hazardous wastes handling  
D.S. 298/94 Regulation on transport of hazardous cargo on streets and roads  
D.S. 594/99 Regulation on sanitary and environmental basic conditions at work places  
Exempt Resolution 15 of 2023 approving the List of Hazardous Substances Subject to Import Process

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

TCSI : On the inventory, or in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

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

indoxacarb (ISO)  
Indeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylic acid, 7-chloro-2,5-dihydro-2-[[[(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]amino]carbonyl]-, methyl ester, (4aR)-  
Lignin, alkali, reaction products with formaldehyde and sodium

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bisulfite

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

The receiver should verify the possible existence of legal regulations applicable to chemical.

## SECTION 16. OTHER INFORMATION

Revision Date : 25.02.2025

Date format : dd.mm.yyyy

### Full text of H-Statements

#### Abbreviations and acronyms

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Serious eye damage/eye irritation	:	Serious eye damage/eye irritation
Skin Sens.	:	Skin sensitization
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
CL OEL	:	Chile. Regulation on basic sanitary and environmental conditions in the workplace
CL OEL / LPP	:	Time Weighted Limit Value

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 Or-



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ganisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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