

SAFETY DATA SHEET



Avaunt eVo®

Version	Revision Date:	SDS Number:	Date of last issue: -
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SECTION 1. IDENTIFICATION

Product name : Avaunt eVo®

Manufacturer or supplier's details

Company : FMC COLOMBIA S.A.S

Address : CALLE 108 # 45 30. TORRE 2,
OF. 1004-1005
BOGOTÁ D.C - COLOMBIA
+571 635150

Emergency telephone : 1 703 / 741-5970 (CHEMTREC - International)
+55 11 4349 1359 (CHEMTREC); +57 601 7942539
(CHEMTREC Bogota)
Colombia: 911

Medical Emergency Number : Desde Bogotá: 288 60 12; Línea Nacional: 01 8000 916012
Desde Ecuador: 1800 593005 (Quito, La Sierra, Centro y Norte).
Desde Perú: SAMU: 106;
CISPROQUIM®: 080-050-847;
FMC LATINOAMERICA S.A. SUCURSAL: 421-4811;
Desde Venezuela: 0800 1005012

Recommended use of the chemical and restrictions on use

Recommended use : Can be used as insecticide only.

Restrictions on use : Use as recommended by the label.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 4

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

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

Short-term (acute) aquatic hazard : Category 1

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Long-term (chronic) aquatic hazard : Category 1

GHS label elements

Hazard pictograms : 

Signal Word : DANGER

Hazard Statements : H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
H371 May cause damage to organs (Central nervous system).
H372 Causes damage to organs (Blood, Nervous system) through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing.

Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Storage:
P405 Store locked up.

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

Other hazards which do not result in classification

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Hazard Statements required by Andean Technical Manual for the Registration and Control of Chemical Pesticides for Agricultural Use (Resolution no. 2075):

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Harmful if inhaled.
Harmful in contact with skin.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
indoxacarb (ISO)	173584-44-6	≥ 25 -< 30
2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates	90093-37-1	≥ 1 -< 5
Poly(oxy-1,2-ethanediyl), α -[tris(1-phenylethyl)phenyl]- ω -hydroxy-	99734-09-5	≥ 1 -< 2,5
sodium decyl sulphate	142-87-0	≥ 1 -< 2,5

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.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed, in contact with skin or if inhaled.
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 personal protective equipment.

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Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO₂, 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.
- 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.
Chlorinated compounds
Fluorinated compounds
Nitrogen oxides (NO_x)
Carbon oxides
Hydrogen cyanide
Hydrogen chloride
Hydrogen fluoride
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- 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 : Use personal protective equipment.
Ensure adequate ventilation.
Do not touch or walk through the spilled material.
If it can be safely done, stop the leak.
Immediately evacuate personnel to safe areas.
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.
For disposal considerations see section 13.
- Accidental Release Measures : 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.
For disposal considerations see section 13.

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- | | | |
|---|---|---|
| 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 | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal. |

SECTION 7. HANDLING AND STORAGE

- | | | |
|---|---|---|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
| Advice on safe handling | : | 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. |
| 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. |
| 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. |
| Hand protection
Material | : | Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber. |
| Remarks | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
| Eye protection | : | Eye wash bottle with pure water
Tightly fitting safety goggles |
| Skin and body protection | : | Impervious clothing |

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- 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. Always have on hand a first-aid kit, together with proper instructions. Ensure that eye flushing systems and safety showers are located close to the working place. Wear suitable protective equipment. In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Form : suspension
- Color : white
- Odor : characteristic
- Odor Threshold : No data available
- pH : 6,78 (20 °C)
Concentration: 1 %
Method: OCSP 830.7000
GLP: yes
(1% solution in water)
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : No data available
- Evaporation rate : No data available
- Vapor pressure : No data available
- Relative vapor density : No data available
- Relative density : No data available

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Density	:	1,1188 g/cm ³ Method: OPPTS 830.7300 GLP: yes
Bulk density	:	No data available
Solubility(ies)	:	
Water solubility	:	dispersible
Solubility in other solvents	:	160 g/l Active ingredient Solvent: ethyl acetate 1,72 g/l Active ingredient Solvent: Heptane 0,2 g/l (25 °C) Active ingredient Solvent: water
Partition coefficient: n-octanol/water	:	log Pow: 4,65 (25 °C) Active ingredient
Viscosity	:	
Viscosity, dynamic	:	500 mPa.s (20 °C) Method: OPPTS 830.7100 GLP: yes 265,5 mPa.s (40 °C) Method: OPPTS 830.7100 GLP: yes
Viscosity, kinematic	:	No data available

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.
Conditions to avoid	:	Avoid extreme temperatures. Avoid formation of aerosol.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	:	No hazardous decomposition products are known.

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SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Harmful if swallowed, in contact with skin or if inhaled.

Product:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5,16 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
GLP: yes

Assessment: The component/mixture is moderately toxic after short term inhalation.

Remarks: Resolution no. 2075

Acute dermal toxicity : LD50 Dermal (Rat): > 5.000 mg/kg
GLP: yes

Assessment: The component/mixture is moderately toxic after single contact with skin.

Remarks: Resolution no. 2075

Components:**indoxacarb (ISO):**

Acute oral toxicity : LD50 (Rat, male and female): 281 - 294 mg/kg
Method: OECD Test Guideline 420
Symptoms: ataxia, Tremors, Diarrhea, clonic convulsions, abnormal posture, incoordination, Lethargy
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
Symptoms: Irritation
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

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Assessment: The substance or mixture has no acute dermal toxicity

Poly(oxy-1,2-ethanediyl), α -[tris(1-phenylethyl)phenyl]- ω -hydroxy-:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

sodium decyl sulphate:

Acute oral toxicity : LD50 (Rat, male and female): 1.200 mg/kg
Method: OECD Test Guideline 401
Symptoms: Fatality
Remarks: Based on data from similar materials

LD50 (Rat, female): 977 mg/kg
Method: OECD Test Guideline 401
Symptoms: Fatality
Remarks: Based on data from similar materials

LD50 (Rat, male): 1.427 mg/kg
Method: OECD Test Guideline 401
Symptoms: Fatality
Remarks: Based on data from similar materials

Acute dermal toxicity : LD0 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials
no mortality

Skin corrosion/irritation

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

Product:

Assessment : Not classified as irritant
Result : No skin irritation
GLP : yes

Components:

indoxacarb (ISO):

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

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

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Species	:	Rabbit
Result	:	No skin irritation

Poly(oxy-1,2-ethanediyl), α -[tris(1-phenylethyl)phenyl]- ω -hydroxy-:

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

sodium decyl sulphate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Skin irritation
Remarks	:	Based on data from similar materials

Serious eye damage/eye irritation

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

Product:

Result	:	No eye irritation
Assessment	:	Not classified as irritant
GLP	:	yes

Components:

indoxacarb (ISO):

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

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days

Poly(oxy-1,2-ethanediyl), α -[tris(1-phenylethyl)phenyl]- ω -hydroxy-:

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

sodium decyl sulphate:

Species	:	Rabbit
Result	:	Irreversible effects on the eye
Method	:	OECD Test Guideline 405
Remarks	:	Based on data from similar materials

Species	:	Rabbit
Result	:	No eye irritation

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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:

Assessment	: Not a skin sensitizer.
Result	: Does not cause skin sensitization.
GLP	: yes

Components:

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

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Result	: Does not cause skin sensitization.
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sodium decyl sulphate:

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

Germ cell mutagenicity

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

Components:

indoxacarb (ISO):

Genotoxicity in vitro	: Test Type: reverse mutation assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
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Test Type: gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
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.

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Germ cell mutagenicity - Assessment : No genotoxic potential.

Poly(oxy-1,2-ethanediyl), α -[tris(1-phenylethyl)phenyl]- ω -hydroxy-:

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

Genotoxicity in vivo : Remarks: No data available

sodium decyl sulphate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test
Result: negative
Remarks: Based on data from similar materials

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

Genotoxicity in vivo : Test Type: dominant lethal test
Species: Mouse (male and female)
Application Route: Oral
Result: negative
Remarks: Based on data from similar materials

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

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

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Components:

indoxacarb (ISO):

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

Species	: Rat, male
Application Route	: Oral
Exposure time	: 24 m
	: 2,4 mg/kg bw/day
Result	: negative

Carcinogenicity - Assessment	: Animal testing did not show any carcinogenic effects.
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2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

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

Species	: Rat, male and female
Application Route	: Oral
Exposure time	: 2 Years
Dose	: 0, 11, 113, 1125 mg/kg bw
NOAEL	: 1.125 mg/kg bw/day
Result	: negative
Remarks	: Based on data from similar materials

Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
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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, male and female Dose: 0, 20, 60, 100 parts per million General Toxicity Parent: NOEL: 20 ppm Fertility: NOEL: 60 ppm Early Embryonic Development: NOEL: 20 ppm Symptoms: Reduced body weight, reduced food consumption Target Organs: spleen
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Effects on fetal development	: Test Type: Developmental toxicity study Species: Rabbit Dose: 0, 250, 500, 1000 mg/kg bw/day General Toxicity Maternal: NOEL: 500 mg/kg bw/day
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Developmental Toxicity: NOEL: 500 mg/kg bw/day
Symptoms: Reduced body weight, Reduced fetal weight.,
Skeletal malformations.
Method: EPA OPP 83-3
GLP: yes

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

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Reproductive toxicity - Assessment : No toxicity to reproduction

sodium decyl sulphate:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Dose: 0, 63, 125, 250, 500 mg/kg
General Toxicity Parent: LOAEL: 500 mg/kg bw/day
Result: negative
Remarks: Based on data from similar materials

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

STOT-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.

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

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

sodium decyl sulphate:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

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

Components:

indoxacarb (ISO):

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

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2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Assessment : The substance or mixture is not classified as specific target organ toxicant, 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
Symptoms : Reduced body weight, reduced food consumption

Species : Rat, male
NOAEL : 3,2 mg/kg
LOAEL : 6,6 mg/kg
Application Route : Oral
Exposure time : 90 d
Method : OECD Test Guideline 408
GLP : yes
Symptoms : Reduced body weight, reduced food consumption

Species : Rat, female
NOAEL : 0,685 mg/kg, 10 ppm
LOAEL : 3,3 mg/kg, 50 ppm
Application Route : Oral
Exposure time : 90 d
Dose : 0, 10, 50, 100 ppm
Method : EPA OPP 82-7
GLP : yes
Symptoms : Fatality, reduced food consumption, Reduced body weight
Remarks : No neurotoxicity detected.

Species : Rat, male
NOAEL : 0,569 mg/kg, 10 ppm
LOAEL : 5,62 mg/kg, 100 ppm
Application Route : Oral
Exposure time : 90 d
Dose : 0, 10, 100, 200 ppm
Method : EPA OPP 82-7
GLP : yes
Symptoms : Fatality, reduced food consumption, Reduced body weight
Remarks : No neurotoxicity detected.

Species : Dog, male and female
NOEL : 1,1 - 1,3 mg/kg
LOAEL : 2,3 - 2,4 mg/kg

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Application Route	: Oral - feed
Exposure time	: 12 m
Method	: OECD Test Guideline 452
GLP	: yes
Target Organs	: Blood
Symptoms	: reduced food consumption, Reduced body weight

sodium decyl sulphate:

Species	: Rat, male and female
NOAEL	: 488 mg/kg bw/day
LOAEL	: 1016 mg/kg bw/day
Application Route	: Oral - feed
Exposure time	: 91 d
Dose	: 62,122,245,488,1016,2081mg/kgb
Target Organs	: Liver
Remarks	: Based on data from similar materials

Species	: Mouse, male and female
NOAEL	: 400 mg/kg bw/day
LOAEL	: 500 mg/kg bw/day
Application Route	: Dermal
Dose	: 0,200,400,500,600mg/kgbw/day
Symptoms	: Necrosis
Remarks	: Based on data from similar materials

Aspiration toxicity

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

Components:

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

No aspiration toxicity classification

Further information

Product:

Remarks	: No data available
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

Ecotoxicity

Components:**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 (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/l
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
Method: OECD Test Guideline 201
GLP: yes |
| M-Factor (Acute aquatic toxicity) | : | 1 |
| Toxicity to fish (Chronic toxicity) | : | NOEC (Pimephales promelas (fathead minnow)): 0,0675 mg/l
Exposure time: 28 d
Test Type: Early Life-Stage
Method: OECD Test Guideline 210
GLP: yes |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 0,0351 mg/l
Exposure time: 21 d
Test Type: Static renewal test
Method: OECD Test Guideline 211
GLP: yes |
| M-Factor (Chronic aquatic toxicity) | : | 1 |
| Toxicity to soil dwelling organisms | : | LC50 (Eisenia fetida (earthworms)): > 1.000 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207
GLP: yes |

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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 (*Apis mellifera* (bees)): 0,048 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity
Method: OECD Test Guideline 214

NOEL (*Apis mellifera* (bees)): 0,163 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Method: OECD Test Guideline 213

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

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

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

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

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

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

NOEC (*Anas platyrhynchos* (Mallard duck)): 562 ppm
Exposure time: 5 d
Method: US EPA Test Guideline OPP 71-2
Remarks: Dietary

LC50 (*Colinus virginianus* (Bobwhite quail)): 808 ppm

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Exposure time: 5 d
 Method: US EPA Test Guideline OPP 71-2
 Remarks: Dietary

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

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 3.000 mg/l
 Exposure time: 48 h
 Remarks: Based on data from similar materials

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 550 mg/l
 aquatic invertebrates : Exposure time: 24 h
 Remarks: Based on data from similar materials

Poly(oxy-1,2-ethanediyl), α-[tris(1-phenylethyl)phenyl]-ω-hydroxy-:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 21 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203

Toxicity to microorganisms : Remarks: No data available

sodium decyl sulphate:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 13 mg/l
 Exposure time: 48 h
 Test Type: static test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 470 mg/l
 aquatic invertebrates : Exposure time: 24 h

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 8,64
 plants : mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox- : NOEC (Pimephales promelas (fathead minnow)): > 1,357 mg/l
 icity) : Exposure time: 42 d
 Test Type: flow-through test
 Remarks: Based on data from similar materials

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 1,4 mg/l
 aquatic invertebrates (Chron- : Exposure time: 21 d
 ic toxicity) : Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (activated sludge): 135 mg/l
 Exposure time: 3 h
 Test Type: Respiration inhibition
 Remarks: Based on data from similar materials

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Persistence and degradability**Components:****indoxacarb (ISO):**

Biodegradability : Result: Not readily biodegradable.

2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates:

Biodegradability : Result: Not readily biodegradable.

Poly(oxy-1,2-ethanediyl), α -[tris(1-phenylethyl)phenyl]- ω -hydroxy-:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 8 %
Exposure time: 28 d
Method: OECD Test Guideline 301

sodium decyl sulphate:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 98 %
Exposure time: 30 d
Method: OECD Test Guideline 301D

Bioaccumulative potential**Components:****indoxacarb (ISO):**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 1.053
Exposure time: 21 d
Concentration: 0,1 mg/l

Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 847
Exposure time: 28 d
Concentration: 0,1 mg/l

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

Poly(oxy-1,2-ethanediyl), α -[tris(1-phenylethyl)phenyl]- ω -hydroxy-:

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

sodium decyl sulphate:

Partition coefficient: n-octanol/water : log Pow: 1,72 (25 °C)
pH: 7,94 - 7,95

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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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
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

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. 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 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Indoxacarb)

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

IATA-DGR

UN/ID No.	: UN 3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (Indoxacarb)

Class	: 9
Packing group	: III
Labels	: Miscellaneous
Packing instruction (cargo aircraft)	: 964
Packing instruction (passenger aircraft)	: 964
Environmentally hazardous	: yes

IMDG-Code

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, 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.

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

Substances and chemicals controlled by the Ministry of : Not applicable

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Justice

List of substances included for special control and subject to supervision by the Ministry of Health and Social Protection : Not applicable

Resolution 2715/2014, which establishes the substances subject to registration of retail sales, based on defined classification criteria. : Not applicable

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

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL. indoxacarb (ISO) 2,4,6-tris(1-Phenylethyl)polyoxyethylenated phosphates Smectite-group minerals
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

SECTION 16. OTHER INFORMATION

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Further information

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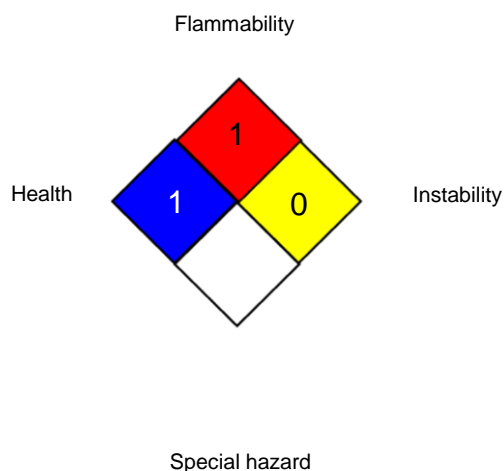
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NFPA:



HMIS® IV:

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

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

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

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