

SAFETY DATA SHEET



ROCKS®

Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	28.07.2025	50000168	Date of first issue: 31.03.2021

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ROCKS®

Manufacturer or supplier's details

Company : FMC QUÍMICA DO BRASIL LTDA.

Address : AVENIDA DR. JOSÉ BONIFÁCIO
COUTINHO NOGUEIRA 150 - 1º
ANDAR - JARDIM MADALENA,
CAMPINAS SP BRASIL
TELEFONE: (19) 2042.4500

Emergency telephone : Brazil: 0800 34 35 450 (24 hours)
+55-2139581449 (CHEMTREC)

Medical Emergency Number : 0800 7010 450

Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Restrictions on use : Use as recommended by the label.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard

Acute toxicity (Oral) : Category 3

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 5

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

Specific target organ toxicity - : Category 2 (Liver, Kidney, Central nervous system, Thyroid)
repeated exposure

Short-term (acute) aquatic : Category 1
hazard

Long-term (chronic) aquatic : Category 1
hazard

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GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms

:



Signal Word

:

DANGER

Hazard Statements

:

H301 Toxic if swallowed.
H313 May be harmful in contact with skin.
H332 Harmful if inhaled.
H371 May cause damage to organs (Central nervous system, Lungs).
H373 May cause damage to organs (Liver, Kidney, Central nervous system, Thyroid) 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.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P302 + P312 IF ON SKIN: 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.
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

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
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imidacloprid (ISO)	138261-41-3	Acute Tox. (Oral), 4 Acute Tox. (Inhalation), 5 Aquatic Acute, 2 Aquatic Chronic, 1	>= 10 -< 20
Bifenthrin	82657-04-3	Acute Tox. (Oral), 3 Acute Tox. (Inhalation), 3 Acute Tox. (Dermal), 5 Skin Sens., 1 STOT SE, (Central nervous system) , 1 STOT RE, (Central nervous system) , 1 Aquatic Acute, 1 Aquatic Chronic, 1	>= 10 -< 20
2-Propenoic acid, 2-methyl-, polymer with .alpha.-methyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and methyl 2-methyl-2-propenoate, graft	119724-54-8	Acute Tox. (Oral), 5	>= 1 -< 5
Ethoxylated isoalcohols(C=9-11, C=10 rich)	78330-20-8	Acute Tox. (Oral), 5 Serious eye damage/eye irritation, 1 Aquatic Acute, 2	>= 1 -< 2,5
1,2-benzisothiazol-3(2H)-one	2634-33-5	Acute Tox. (Oral), 4 Serious eye damage/eye irritation, 1 Skin Sens., 1 Aquatic Acute, 1 Aquatic Chronic, 2	>= 0,0025 -< 0,025

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off with soap and water.
If symptoms persist, call a physician.
Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.

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	Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: 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	: Toxic if swallowed. May be harmful in contact with skin. Harmful if inhaled. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Contact with skin may cause tingling, itching, burning, or numbness at the site of contact. Inhalation may irritate the nose, throat, and lungs. Swallowing large quantities may result in throat irritation, nausea, abdominal pain, and vomiting.
Protection of first-aiders	: Avoid inhalation, ingestion and contact with skin and eyes. Use an intermediary or manual resuscitation device to perform artificial respiration.
Notes to physician	: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Dry chemical, CO ₂ , water spray or regular foam.
Unsuitable extinguishing media	: Do not spread spilled material with high-pressure water streams.
Specific hazards during fire fighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Fire may produce irritating, corrosive and/or toxic gases. Chlorinated compounds Hydrogen chloride Nitrogen oxides (NO _x) Carbon oxides Hydrogen cyanide Fluorinated compounds Hydrogen fluoride
Specific extinguishing methods	: Remove undamaged containers from fire area if it is safe to do so. Use a water spray to cool fully closed containers. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This

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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 : Evacuate personnel to safe areas.
Do not touch or walk through the spilled material.
If it can be safely done, stop the leak.
Use personal protective equipment.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
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.
Collect as much of the spill as possible with a suitable absorbent material.
Pick up and transfer to properly labeled containers.
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 : Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Do not inhale aerosol.
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 : Prevent unauthorized access.
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.

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Electrical installations / working materials must comply with the technological safety standards.

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

Packaging material : Unsuitable material: Do not store in or use containers except the original product package.

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 : Protective gloves

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

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

Skin and body protection : Impervious clothing
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Form : viscous liquid

Color : red, opaque

Odor : characteristic

Odor Threshold : No data available

pH : 6,63 (ca. 20 °C)
Method: CIPAC MT 75.3

Melting point/ range : No data available

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Boiling point	:	98,1 °C
Flash point	:	No flash up to boiling point.
Evaporation rate	:	No data available
Flammability (liquids)	:	Will not burn
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	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1,11 g/cm ³ (ca. 20 °C)
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	Solvent: Methanol Description: insoluble
		Solvent: hexane Description: insoluble
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	193,5 mPa.s (20 °C)
		151,9 mPa.s (40 °C)
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Surface tension	:	47,78 mN/m, (1% solution in water)

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Molecular weight : Not applicable

Metal corrosion rate : Not corrosive to metals.

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.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Toxic if swallowed.
May be harmful in contact with skin.
Harmful if inhaled.

Product:

Acute oral toxicity : LD50 (Rat): > 50 - < 300 mg/kg
Method: OECD Test Guideline 423
Symptoms: Tremors, Fatality
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 1,9 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Symptoms: epistaxis (bloody nose)
Assessment: The component/mixture is moderately toxic after short term inhalation.
Remarks: no mortality

Acute dermal toxicity : LD50 (Rat): > 4.000 mg/kg
Method: OECD Test Guideline 402
Symptoms: Skin irritation
Assessment: The component/mixture is minimally toxic after single contact with skin.

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Remarks: no mortality

Components:**imidacloprid (ISO):**

Acute oral toxicity

: LD50 (Rat, male and female): > 1.000 mg/kg
Symptoms: Tremors, piloerection, Breathing difficulties
Remarks: no mortality

LD50 (Rat, female): 300 - 2.000 mg/kg
Method: OECD Test Guideline 423
Symptoms: Fatality, Convulsions, piloerection
GLP: yes
Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 (Rat, female): 300 - 2.000 mg/kg
Method: OECD Test Guideline 420
Symptoms: Fatality, Tremors, ataxia
GLP: yes
Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 (Rat, female): ca. 2.567 mg/kg
Method: OECD Test Guideline 425
Symptoms: Fatality, Breathing difficulties
GLP: yes

Acute inhalation toxicity

: LC50 (Rat, male and female): > 5,31 mg/l
Exposure time: 4 h
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

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Symptoms: Irritation
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: no mortality

LD50 (Rabbit): > 2.000 mg/kg

Bifenthrin:

Acute oral toxicity : LD50 (Rat, female): 50 - 300 mg/kg
Method: OECD Test Guideline 423
Symptoms: Convulsions, ataxia
Assessment: The component/mixture is toxic after single ingestion.

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): > 4.000 mg/kg
Method: OECD Test Guideline 402
Symptoms: Irritation
GLP: yes
Remarks: no mortality

2-Propenoic acid, 2-methyl-, polymer with .alpha.-methyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and methyl 2-methyl-2-propenoate, graft:

Acute oral toxicity : LD50: > 2.000 mg/kg
Method: Calculation method

Ethoxylated isoalcohols(C=9-11, C=10 rich):

Acute oral toxicity : LD50 (Rat): 2.030 mg/kg

1,2-benzisothiazol-3(2H)-one:

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

Skin corrosion/irritation

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

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Product:

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

Components:

imidacloprid (ISO):

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

Bifenthrin:

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

2-Propenoic acid, 2-methyl-, polymer with .alpha.-methyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and methyl 2-methyl-2-propenoate, graft:

Result	:	slight irritation
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Ethoxylated isoalcohols(C=9-11, C=10 rich):

Species	:	Rabbit
Exposure time	:	4 h
Assessment	:	No skin irritation
Remarks	:	Minimal effects that do not meet the threshold for classification.

1,2-benzisothiazol-3(2H)-one:

Species	:	Rabbit
Exposure time	:	72 h
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

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

Product:

Species	:	Rabbit
Result	:	slight irritation
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 405

Components:

imidacloprid (ISO):

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

Bifenthrin:

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

2-Propenoic acid, 2-methyl-, polymer with .alpha.-methyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and methyl 2-methyl-2-propenoate, graft:

Result	:	slight irritation
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Ethoxylated isoalcohols(C=9-11, C=10 rich):

Species	:	Rabbit
Result	:	Irreversible effects on the eye
Method	:	Draize Test

1,2-benzisothiazol-3(2H)-one:

Species	:	Bovine cornea
Result	:	No eye irritation
Method	:	OECD Test Guideline 437

Species	:	Rabbit
Result	:	Irreversible effects on the eye
Method	:	EPA OPP 81-4

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:

Routes of exposure	:	Dermal
Species	:	Guinea pig
Assessment	:	Not a skin sensitizer.
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

Components:

imidacloprid (ISO):

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

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

Bifenthrin:

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

Ethoxylated isoalcohols(C=9-11, C=10 rich):

Result	:	Does not cause skin sensitization.
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1,2-benzisothiazol-3(2H)-one:

Test Type	:	Maximization Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	May cause sensitization by skin contact.

Species	:	Guinea pig
Method	:	FIFRA 81.06
Result	:	May cause sensitization by skin contact.

Germ cell mutagenicity

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

Product:

Genotoxicity in vitro	:	Test Type: Ames test Method: OECD Test Guideline 471 Result: negative GLP: yes
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Genotoxicity in vivo	:	Test Type: Micronucleus test Method: OECD Test Guideline 474 Result: negative
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Components:

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
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	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471
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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

Result: negative

GLP: yes

Test Type: dominant lethal test

Species: Mouse

Result: negative

Test Type: chromosome aberration assay

Species: Mouse

Result: negative

Bifenthrin:

Genotoxicity in vitro

: Test Type: gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: reverse mutation assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Mouse lymphoma assay

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo

: Test Type: Sex-linked Recessive Lethal Test

Species: Drosophila melanogaster (vinegar fly)

Result: negative

Test Type: unscheduled DNA synthesis assay

Species: Rat

Method: OECD Test Guideline 486

Result: negative

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Ethoxylated isoalcohols(C=9-11, C=10 rich):

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

Germ cell mutagenicity - Assessment : In vivo tests did not show mutagenic effects

1,2-benzisothiazol-3(2H)-one:

Genotoxicity in vitro : Test Type: gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Cell type: Liver cells
Application Route: Ingestion
Exposure time: 4 h
Method: OECD Test Guideline 486
Result: negative

Test Type: Micronucleus test
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

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.

Components:**Bifenthrin:**

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

Species : Mouse, male
Application Route : Oral

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Exposure time	:	18 month(s)
NOAEL	:	7,6 mg/kg bw/day
Result	:	positive
Symptoms	:	malignant tumors

Reproductive toxicity

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

Components:**imidacloprid (ISO):**

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

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

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

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

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

Bifenthrin:

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

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rabbit
Application Route: Oral
General Toxicity Maternal: NOAEL: 2,7 mg/kg bw/day

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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.

Ethoxylated isoalcohols(C=9-11, C=10 rich):

Effects on fertility : Species: Rat
Application Route: Dermal
General Toxicity Parent: NOEL: 250 mg/kg body weight
General Toxicity F1: NOEL: 250 mg/kg body weight

Effects on fetal development : Species: Rat
Application Route: Dermal
General Toxicity Maternal: NOEL: 250 mg/kg body weight
Teratogenicity: NOEL: 250 mg/kg body weight

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

1,2-benzisothiazol-3(2H)-one:

Effects on fertility : Species: Rat, male
Application Route: Ingestion
General Toxicity Parent: NOAEL: 18,5 mg/kg body weight
General Toxicity F1: NOAEL: 48 mg/kg body weight
Fertility: NOAEL: 112 mg/kg bw/day
Symptoms: No effects on reproduction parameters.
Method: OPPTS 870.3800
Result: negative

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

STOT-single exposure

May cause damage to organs (Central nervous system, Lungs).

Product:

Target Organs : Central nervous system, Lungs

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Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.

Components:

Bifenthrin:

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

Ethoxylated isoalcohols(C=9-11, C=10 rich):

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

STOT-repeated exposure

May cause damage to organs (Liver, Kidney, Central nervous system, Thyroid) through prolonged or repeated exposure.

Product:

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

Components:

Bifenthrin:

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

Ethoxylated isoalcohols(C=9-11, C=10 rich):

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

1,2-benzisothiazol-3(2H)-one:

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

Repeated dose toxicity

Components:

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

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

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

Bifenthrin:

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

Species	: Dog, male and female
NOEL	: 2,5 mg/kg bw/day
Application Route	: Oral - feed
Exposure time	: 13 w
Symptoms	: Tremors

Ethoxylated isoalcohols(C=9-11, C=10 rich):

Species	: Rat
NOAEL	: 80 mg/kg
Application Route	: Dermal
Exposure time	: 90 d

Species	: Rat
NOAEL	: 150 mg/kg
Application Route	: Oral
Exposure time	: 90 d

1,2-benzisothiazol-3(2H)-one:

Species	: Rat, male and female
NOAEL	: 15 mg/kg
Application Route	: Ingestion
Exposure time	: 28 d
Method	: OECD Test Guideline 407
Symptoms	: Irritation

Species	: Rat, male and female
NOAEL	: 69 mg/kg
Application Route	: Ingestion
Exposure time	: 90 d
Symptoms	: Irritation, Reduced body weight

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Aspiration toxicity

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

Components:

imidacloprid (ISO):

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

Bifenthrin:

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

Further information

Product:

Remarks : No data available

Components:

imidacloprid (ISO):

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 23,69 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,069 mg/l
End point: Immobilization
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.634 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EyC50 (Pseudokirchneriella subcapitata (green algae)): 750,8 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): 18,62 mg/kg
Method: OECD Test Guideline 207

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

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

Toxicity to terrestrial organisms : LD50 (Coturnix japonica (Japanese quail)): 154,81 mg/kg
Method: US EPA Test Guideline OPPTS 850.2100

(Apis mellifera (bees)): 0.09
Exposure time: 48 h
End point: Acute contact toxicity
Method: OECD Test Guideline 214

(Apis mellifera (bees)): 0.00273
Exposure time: 48 h
End point: Acute oral toxicity
Method: OECD Test Guideline 213

Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Components:

imidacloprid (ISO):

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

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

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

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

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 85 mg/l
Exposure time: 48 h

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Method: US EPA Test Guideline OPP 72-2
GLP: yes

EC50 (*Americamysis bahia* (mysid shrimp)): 0,0341 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: US EPA Test Guideline OPP 72-3
GLP: yes

LC50 (*Hyalella azteca* (Amphipod)): 0,526 mg/l
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

NOEC (*Scenedesmus capricornutum* (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 (*Salmo gairdneri*): 28,5 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 204
GLP: yes

NOEC (*Oncorhynchus mykiss* (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 (*Oncorhynchus mykiss* (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 (*Daphnia magna* (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 (*Chironomus riparius* (harlequin fly)): 0,00209 mg/l
Exposure time: 28 d

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NOEC (Chironomus tentans): 0,67 µg/l
End point: Growth
Exposure time: 10 d
Test Type: Static renewal test
GLP: yes

NOEC (Gammarus pulex): 0,064 mg/l
End point: Swimming behavior
Exposure time: 28 d
Test Type: static test
Method: OECD 219
GLP: yes

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to microorganisms : IC50 (activated sludge): > 10000

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

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

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.

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
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

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		LC50 (Pimephales promelas (fathead minnow)): 0,000234 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia): 0,00011 mg/l Exposure time: 48 h LC50 (Daphnia): 0,0016 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (algae): 0,822 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	:	1.000
Toxicity to fish (Chronic toxicity)	:	NOEC (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
M-Factor (Chronic aquatic toxicity)	:	100.000
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

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Ethoxylated isoalcohols(C=9-11, C=10 rich):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8,5 mg/l
Exposure time: 96 h

1,2-benzisothiazol-3(2H)-one:

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 16,7 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 2,15 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,9 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,070 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,04 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (activated sludge): 24 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

EC50 (activated sludge): 12,8 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

Persistence and degradability**Product:**

Biodegradability : Result: Not biodegradable

Components:**imidacloprid (ISO):**

Biodegradability : Result: Not readily biodegradable.

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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

Ethoxylated isoalcohols(C=9-11, C=10 rich):

Biodegradability : Result: Readily biodegradable.

1,2-benzisothiazol-3(2H)-one:

Biodegradability : Result: rapidly biodegradable
Method: OECD Test Guideline 301C

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Product contains substances which are persistent, bioaccumulative, and toxic (PBT).

Remarks: No data available

Remarks: No data available

Components:

imidacloprid (ISO):

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: 0,33 (20 °C)
Method: OECD Test Guideline 107

Bifenthrin:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 1.709
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

Partition coefficient: n-octanol/water : log Pow: 6,6

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 6,62
Exposure time: 56 d
Method: OECD Test Guideline 305
Remarks: Substance is not persistent, bioaccumulative, and toxic (PBT).

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Partition coefficient: n-octanol/water : log Pow: 0,7 (20 °C)
pH: 7

log Pow: 0,99 (20 °C)
pH: 5

Mobility in soil

Product:

Distribution among environmental compartments : Remarks: Highly mobile in soils

Components:

imidacloprid (ISO):

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

Bifenthrin:

Distribution among environmental compartments : Koc: 236610 ml/g, log Koc: 5,37
Remarks: immobile

Stability in soil :

1,2-benzisothiazol-3(2H)-one:

Distribution among environmental compartments : Koc: 9,33 ml/g, log Koc: 0,97
Method: OECD Test Guideline 121
Remarks: Highly mobile in soils

Other adverse effects

Product:

Results of PBT and vPvB assessment : Product contains substances which are very persistent and very bioaccumulative (vPvB).

Additional ecological information : Very toxic to aquatic life with long lasting effects.

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.

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

Washable packaging: Triple wash packs of less than 20 liters and pressure wash packs of 20 liters or more. Triple Wash (Manual Wash): Completely empty the contents of the package into the sprayer tank, keeping it in an upright position for 30 seconds; Add clean water to the package up to ¼ of its volume; Cover the package well and shake it for 30 seconds; Pour the wash water into the spray tank; Do this operation three times; Make the plastic or metal packaging unusable by perforating the bottom.

Pressure wash: Fit the empty package in the appropriate place of the funnel installed on the sprayer; Activate the mechanism to release the water jet; Direct the water jet to all the inside walls of the package, for 30 seconds; Wash water must be transferred to the sprayer tank; Make the plastic or metal packaging unusable by perforating the bottom. In both procedures, puncture the container at its base without damaging the label. Within a period of up to one year from the date of purchase, the user must return the empty packaging, with lid, to the establishment where the product was purchased or to the place indicated on the invoice, issued at the time of purchase. Activate the mechanism to release the water jet. Direct the water jet to all the inside walls of the package, for 30 seconds. Wash water must be transferred to the sprayer tank. Make the plastic or metal packaging unusable by perforating the bottom.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3352
Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC
(Bifenthrin, Imidacloprid)

Class : 6.1
Packing group : III
Labels : 6.1
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3352
Proper shipping name : Pyrethroid pesticide, liquid, toxic
(Bifenthrin, Imidacloprid)

Class : 6.1
Packing group : III
Labels : Toxic
Packing instruction (cargo aircraft) : 663

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Packing instruction (passenger aircraft) : 655
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3352
Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC (Bifenthrin, Imidacloprid)
Class : 6.1
Packing group : III
Labels : 6.1
EmS Code : F-A, S-A
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

ANTT

UN number : UN 3352
Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC (Bifenthrin, Imidacloprid)

Class : 6.1
Packing group : III
Labels : 6.1
Hazard Identification Number : 60

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

Law No. 14,785 of December 27, 2023. Decree 4,074 of January 4, 2002 and its regulatory standards. ANTT Resolution No. 5,998/22 of November 3, 2022. This MSDS was prepared in accordance with the criteria of ABNT NBR 14725. The user is recommended to pay attention to local regulations.

National List of Carcinogenic Agents for Humans - : Not applicable (LINACH)

Brazil. List of chemicals controlled by the Federal Police : Not applicable

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 Pigment Red 48 : 2 Sulfurous acid, monosodium salt, reaction products with cresol-formaldehyde-nonylphenol polymer
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

Revision Date	:	28.07.2025
Date format	:	dd.mm.yyyy

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

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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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