

# SAFETY DATA SHEET



## STONE®

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : STONE®

#### 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 : Herbicide

Restrictions on use : Use as recommended by the label.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification in accordance with ABNT NBR 14725 Standard

Acute toxicity (Oral) : Category 5

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 5

Carcinogenicity : Category 2

Specific target organ toxicity - repeated exposure : Category 2 (hematopoietic system, Nervous system)

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

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### GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms

:



Signal Word

: WARNING

Hazard Statements

: H303 + H313 May be harmful if swallowed or in contact with skin.  
H332 Harmful if inhaled.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs (hematopoietic system, Nervous system) through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe mist or vapors.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
  
**Response:**  
P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.  
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 + P313 IF exposed or concerned: Get medical advice/ attention.  
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

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Chemical name	CAS-No.	Classification	Concentration (% w/w)
diuron (ISO)	330-54-1	Acute Tox. (Oral), 5 Acute Tox. (Inhalation), 5 Carc., 2 Aquatic Acute, 1 Aquatic Chronic, 1	$\geq 30$ -< 50
Sulfentrazone	122836-35-5	Acute Tox. (Oral), 5 Acute Tox. (Inhalation), 4 Acute Tox. (Dermal), 5 STOT RE, (hematopoietic system, Nervous system) , 2 Aquatic Acute, 1 Aquatic Chronic, 1	$\geq 10$ -< 20
ethanediol	107-21-1	Acute Tox. (Dermal), 5 STOT RE, (Oral)(Kidney) , 2 Aquatic Acute, 3	$\geq 5$ -< 10
toluene	108-88-3	Flam. Liq., 2 Acute Tox. (Inhalation), 5 Skin corrosion/irritation, 2 Repr., 2 STOT SE, (Central nervous system) , 3 STOT RE, (Inhalation)(inner ear) , 2 Asp. Tox., 1 Aquatic Acute, 2 Aquatic Chronic, 3	$\geq 0,25$ -< 1
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	$\geq 0,025$ -< 0,1

## SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical

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- 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.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.  
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 : May be harmful if swallowed or in contact with skin.  
Harmful if inhaled.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.  
Exposure may result in convulsions, decreased locomotion, tearing, increased sensitivity to touch, bloody discharge from the nose and incoordination.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.
- Notes to physician : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Chlorinated compounds  
Hydrogen chloride  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide  
Carbon oxides  
Fluorinated compounds  
Sulfur oxides
- 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.

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Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Never return spills in original containers for re-use.  
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.

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## 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 exposure - obtain special instructions before use.  
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 : Keep container tightly closed in a dry and well-ventilated place.

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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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
diuron (ISO)	330-54-1	TWA	10 mg/m <sup>3</sup>	ACGIH
ethanediol	107-21-1	TWA (Vapor) STEL (Vapor) STEL (Inhalable fraction, Aerosol only)	25 ppm 50 ppm 10 mg/m <sup>3</sup>	ACGIH ACGIH ACGIH
toluene	108-88-3	LT	78 ppm 290 mg/m <sup>3</sup>	BR OEL
		Further information: Absorption through the skin, Degree of harmfulness: medium		
		TWA	20 ppm	ACGIH

## Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
toluene	108-88-3	toluene	Blood	Start of the last working day of the week	0,02 mg/l	BR BEI
		toluene	Urine	End of workday	0,03 mg/l	BR BEI
		ortho-cresol	Urine	End of workday	0.3 mg/g creatinine	BR BEI
		Toluene	In blood	Prior to last shift of work-week	0,02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0,03 mg/l	ACGIH BEI

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**Personal protective equipment**

- |                          |   |   |
|--------------------------|---|---|
| Respiratory protection   | : | In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.                         |
| Hand protection          | : |   |
| Material                 | : | Protective gloves   |
| Remarks                  | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves.                             |
| Eye protection           | : | Eye wash bottle with pure water<br>Tightly fitting safety goggles   |
| Skin and body protection | : | Impervious clothing<br>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 (ca. 25 °C )                            |
| Color  | : | white, opaque                                  |
| Odor   | : | characteristic                                 |
| Odor Threshold                                   | : | No data available                              |
| pH   | : | 5,6 (ca. 20 °C)<br>Concentration: 10 g/l       |
| Melting point/ range                             | : | No data available                              |
| Boiling point/boiling range                      | : | ca. 94,3 °C                                    |
| Flash point                                      | : | > 94,3 °C<br><br>No flash up to boiling point. |
| Evaporation rate                                 | : | No data available                              |
| Flammability (liquids)                           | : | Not classified as a flammability hazard        |
| Self-ignition                                    | : | No data available                              |
| Upper explosion limit / Upper flammability limit | : | No data available                              |

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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	:	1,19 g/cm <sup>3</sup>
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	744,3 mPa.s ( 20 °C) Method: OECD Test Guideline 114
		1.365 mPa.s ( 40 °C) Method: OECD Test Guideline 114
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Surface tension	:	38,95 mN/m, 10 g/l
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.



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Hazardous decomposition products : No hazardous decomposition products are known.

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

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

**Product:**

Acute oral toxicity	: LD50 (Rat, female): > 2.000 mg/kg Method: OECD Test Guideline 423 Symptoms: apathy Assessment: The component/mixture is minimally toxic after single ingestion.
Acute inhalation toxicity	: LC50 (Rat, male and female): 4,623 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: kyphosis, piloerection
Acute dermal toxicity	: LD50 (Rat, male and female): > 2.000 mg/kg Method: OECD Test Guideline 402 Symptoms: Irritation Assessment: The component/mixture is minimally toxic after single contact with skin. Remarks: no mortality

**Components:****diuron (ISO):**

Acute oral toxicity	: LD50 (Rat, female): 4.150 mg/kg
Acute inhalation toxicity	: LC50 (Rat, male and female): > 5,05 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rat, male and female): > 5.000 mg/kg

**Sulfentrazone:**

Acute oral toxicity	: LD50 (Rat, female): 2.689 mg/kg Symptoms: ataxia, clonic convulsions, Fatality GLP: yes
Acute inhalation toxicity	: LC50 (Rat, male and female): > 4,13 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: EPA OPP 81 - 3 Symptoms: ataxia, Breathing difficulties GLP: yes

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Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg  
Method: EPA OPP 81-2  
GLP: yes  
Assessment: The component/mixture is minimally toxic after single contact with skin.

### **ethanediol:**

Acute inhalation toxicity : LC0 (Rat, male and female): > 2,5 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist  
Remarks: no mortality

Acute dermal toxicity : LD50 (Mouse, male and female): > 3.500 mg/kg

### **toluene:**

Acute oral toxicity : LD50 (Rat): 5.580 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 25,7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

LC50 (Rat, female): 30 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

Acute dermal toxicity : (Rabbit): 12.267 mg/kg

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

Acute oral toxicity : LD50 (Rat, male and female): 490 mg/kg  
Method: OECD Test Guideline 401

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.

### **Product:**

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

### **Components:**

#### **diuron (ISO):**

Species : Rabbit  
Exposure time : 24 h

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Result : No skin irritation

Species : Rabbit  
Exposure time : 48 h  
Result : No skin irritation

Species : Rabbit  
Exposure time : 72 h  
Result : No skin irritation

### **Sulfentrazone:**

Species : Rabbit  
Assessment : No skin irritation  
Method : EPA OPP 81-5  
Result : No skin irritation  
GLP : yes

### **ethanediol:**

Species : Rabbit  
Result : No skin irritation

### **toluene:**

Species : Rabbit  
Assessment : Repeated exposure may cause skin dryness or cracking.  
Result : Skin irritation

### **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:**

#### **diuron (ISO):**

Species : Rabbit  
Result : No eye irritation  
Exposure time : 24 h

Species : Rabbit  
Result : No eye irritation  
Exposure time : 48 h

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Species	:	Rabbit
Result	:	No eye irritation
Exposure time	:	72 h

### **Sulfentrazone:**

Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	No eye irritation
Method	:	EPA OPP 81-4
GLP	:	yes

### **ethanediol:**

Species	:	Rabbit
Result	:	No eye irritation

### **toluene:**

Species	:	Rabbit
Result	:	No eye irritation

### **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:**

Test Type	:	Buehler Test
Routes of exposure	:	Dermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

### **Components:**

#### **diuron (ISO):**

Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.

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**Sulfentrazone:**

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

**ethanediol:**

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

**toluene:**

Test Type	: Maximization Test
Species	: Guinea pig
Result	: Not a skin sensitizer.

**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 Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Method: OECD Test Guideline 474 Result: negative

**Components:****diuron (ISO):**

Genotoxicity in vitro	: Method: OECD Test Guideline 471 Result: negative  Method: OECD Test Guideline 473 Result: negative  Method: OECD Test Guideline 476
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Result: negative

Genotoxicity in vivo : Method: OECD Test Guideline 474  
Result: negative

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

**Sulfentrazone:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: Mouse lymphoma assay  
Test system: mouse lymphoma cells  
Metabolic activation: Metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**ethanediol:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OPPTS 870.5100  
Result: negative

Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Rat  
Application Route: Oral  
Result: negative

**toluene:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro  
Species: Rat  
Result: negative

**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

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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**

Suspected of causing cancer.

**Components:****diuron (ISO):**

Species	: Rat, male
Application Route	: Oral
Exposure time	: 2 y
Dose	: 1,0, 10 and 111 mg/kg bw/d
	: 1,0 - 10,0 mg/kg bw/day
Method	: OECD Test Guideline 453
Result	: positive
Symptoms	: Cancer
Target Organs	: Bladder, Blood, spleen

Species	: Rat, females
Application Route	: Oral
Exposure time	: 2 y
Dose	: 0, 1,7, 17 and 203 mg/kg bw/d
	: 1,7 - 17,0 mg/kg bw/day
Method	: OECD Test Guideline 453
Result	: positive
Symptoms	: Cancer
Target Organs	: Bladder, Blood

Carcinogenicity - Assess-  
ment

: Limited evidence of carcinogenicity in animal studies

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**Sulfentrazone:**

Species : Rat, male and female  
 Application Route : Ingestion  
 Exposure time : 2 Years  
 Result : negative

Species : Mouse, male and female  
 Application Route : Ingestion  
 Exposure time : 18 month(s)  
 Result : negative

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

**ethanediol:**

Species : Mouse  
 Application Route : Oral  
 Exposure time : 24 month(s)  
 Result : negative

**Reproductive toxicity**

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

**Components:****diuron (ISO):**

Effects on fertility : Species: Rat, male  
 Dose: 0, 10, 250 or 1750 parts per million  
 General Toxicity Parent: NOEL: 14,8 mg/kg body weight  
 General Toxicity F1: NOAEL: 18,9 mg/kg body weight  
 Method: OECD Test Guideline 416

Species: Rat, female  
 Dose: 0, 10, 250 or 1750 parts per million  
 General Toxicity Parent: NOEL: 18,5 mg/kg body weight  
 General Toxicity F1: NOAEL: 22,1 mg/kg body weight

Effects on fetal development : Species: Rabbit, female  
 Application Route: Oral  
 Dose: 0, 2, 10, and 50 mg milligram per kilogram  
 Duration of Single Treatment: 20 d  
 Frequency of Treatment: 7 - 19 days  
 General Toxicity Maternal: LOAEL: 50 mg/kg body weight  
 Symptoms: Reduced body weight, No fetotoxicity.  
 Method: OECD Test Guideline 414

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

**Sulfentrazone:**

Effects on fertility : Test Type: Two-generation study



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Species: Rat, male and female  
Application Route: Oral  
General Toxicity Parent: NOEL: 13,7 - 16,2 mg/kg bw/day  
General Toxicity F1: NOEL: 13,7 - 16,2 mg/kg bw/day  
Symptoms: Maternal effects.

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOEL: 25 mg/kg bw/day  
Developmental Toxicity: NOEL: 10 mg/kg bw/day  
Method: EPA OPP 83-3

Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: LOAEL: 50 mg/kg bw/day  
Developmental Toxicity: LOAEL F1: 25 mg/kg bw/day  
Symptoms: Skeletal malformations.  
Target Organs: spleen  
Method: EPA OPP 83-3

### **toluene:**

Effects on fetal development : Species: Rat  
Application Route: Inhalation  
Result: Teratogenic effects.  
Remarks: Adverse developmental effects were observed

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

### **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**

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

### **Components:**

#### **Sulfentrazone:**

Remarks : No significant adverse effects were reported

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**toluene:**

Assessment : May cause drowsiness or dizziness.

**STOT-repeated exposure**

May cause damage to organs (hematopoietic system, Nervous system) through prolonged or repeated exposure.

**Components:****diuron (ISO):**

Routes of exposure : Inhalation, Ingestion  
Target Organs : spleen, Blood  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**Sulfentrazone:**

Target Organs : hematopoietic system, Nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**ethanediol:**

Routes of exposure : Oral  
Target Organs : Kidney  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**toluene:**

Routes of exposure : Inhalation  
Target Organs : inner ear  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**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:****diuron (ISO):**

Species : Rat, female  
LOAEL : 8,7 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Dose : 6.7, 16.8, 168 mg/kg/d  
Method : OECD Test Guideline 408  
GLP : yes  
Target Organs : Blood, Kidney

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Species	: Dog
NOAEL	: 1,8 mg/kg
LOAEL	: 11 mg/kg
Application Route	: Oral
Exposure time	: 1 year
Dose	: 1.8, 11, 66 mg/kg/d
Method	: OECD Test Guideline 452
Target Organs	: Blood, Kidney, Liver, spleen
Symptoms	: anemia

Species	: Rat, female
NOAEL	: 0,004 mg/l
LOAEL	: 0,037 mg/l
Application Route	: Inhalation
Test atmosphere	: dust/mist
Dose	: 0.004, 0.037, 0.268 mg/L
Method	: OECD Test Guideline 412
GLP	: yes
Target Organs	: spleen, Blood

Species	: Rabbit
NOAEL	: 250 mg/kg
Application Route	: Dermal
Dose	: 50,250 mg/kg bw
Method	: OECD Test Guideline 410
Remarks	: No adverse effect has been observed in chronic toxicity tests.

### **Sulfentrazone:**

Species	: Rat, male
NOAEL	: 19,9 mg/kg
LOAEL	: 65,8 mg/kg
Application Route	: Oral - feed
Exposure time	: 90-days
GLP	: yes
Target Organs	: hematopoietic system

Species	: Mouse, male
NOAEL	: 60 mg/kg
LOAEL	: 108,4 mg/kg
Application Route	: Oral - feed
Exposure time	: 90-days
Target Organs	: hematopoietic system

Species	: Dog, male
NOAEL	: 10 mg/kg
LOAEL	: 28 mg/kg
Application Route	: Oral - feed
Exposure time	: 90-days
Target Organs	: hematopoietic system, Liver

### **ethanediol:**

Species	: Rat
NOAEL	: 150 mg/kg

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Application Route : Oral  
Exposure time : 12 Months

Species : Dog  
NOAEL : > 2.200 - < 4.400 mg/kg  
Application Route : Dermal  
Exposure time : 4 Weeks  
Method : OECD Test Guideline 410

### **toluene:**

Species : Rat  
NOAEL : 625 mg/kg  
Application Route : Oral  
Symptoms : central nervous system effects

Species : Rat  
NOAEL : 0,098 mg/l  
Application Route : Inhalation  
Test atmosphere : vapor

Species : Rat  
LOAEL : 2,261 mg/l  
Application Route : Inhalation  
Test atmosphere : vapor

### **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

### **Aspiration toxicity**

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

### **Components:**

#### **Sulfentrazone:**

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

#### **toluene:**

May be fatal if swallowed and enters airways.

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**Neurological effects****Components:****Sulfentrazone:**

Neurotoxicity observed in animals studies

**Further information****Product:**

Remarks : No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 (Danio rerio (zebra fish)): 56,57 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203   |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 36,82 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202   |
| Toxicity to algae/aquatic plants                    | : | ErC50 (Pseudokirchneriella subcapitata (algae)): 0,00676 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201   |
| Toxicity to soil dwelling organisms                 | : | Method: OECD Test Guideline 216<br>Remarks: No significant adverse effect on Nitrogen mineralization.<br><br>Method: OECD Test Guideline 217<br>Remarks: No significant adverse effect on Carbon mineralization.<br><br>LC50 (Eisenia fetida (earthworms)): > 1.000 mg/kg<br>Exposure time: 14 d<br>Method: OECD Test Guideline 207 |
| Toxicity to terrestrial organisms                   | : | LD50 (Coturnix japonica (Japanese quail)): > 2.000 mg/kg<br>Exposure time: 14 d<br>Method: US EPA Test Guideline OPPTS 850.2100<br><br>LD50 (Apis mellifera (bees)): 130,4 µg/bee<br>Exposure time: 48 d<br>Method: OECD Test Guideline 214   |

**Ecotoxicology Assessment**

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

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### **Components:**

#### **diuron (ISO):**

- |  |   |  |
|--|---|--|
| Toxicity to fish   | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 14,7 mg/l<br>Exposure time: 96 h   |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): 22,6 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br><br>EC50 (Daphnia magna (Water flea)): 1,4 mg/l<br>Exposure time: 48 h |
| Toxicity to algae/aquatic plants                                       | : | EC50 (Scenedesmus subspicatus): 22 µg/l<br>Exposure time: 72 h<br><br>NOEC (Scenedesmus subspicatus): 3,2 µg/l<br>Exposure time: 72 h  |
| M-Factor (Acute aquatic toxicity)                                      | : | 10   |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC (Danio rerio (zebra fish)): 1,19 µg/l<br>Exposure time: 21 d  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 0,56 mg/l<br>Exposure time: 21 d  |
| M-Factor (Chronic aquatic toxicity)                                    | : | 10   |
| Toxicity to microorganisms   | : | EC50 (Anabaena flos-aquae (cyanobacterium)): 30,9 µg/l<br>Exposure time: 72 h<br><br>NOEC (Anabaena flos-aquae (cyanobacterium)): 10 µg/l<br>Exposure time: 72 h                 |
| Toxicity to soil dwelling organisms                                    | : | NOEC (Eisenia fetida (earthworms)): 21,3 mg/kg   |
| Toxicity to terrestrial organisms                                      | : | Test substance: No data available  |

#### **Sulfentrazone:**

- |                  |   |  |
|------------------|---|--|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l<br>Exposure time: 96 h<br>Test Type: flow-through test<br>Method: EPA OPP 72-1<br><br>LC50 (Lepomis macrochirus (Bluegill sunfish)): 93,8 mg/l<br>Exposure time: 96 h<br>Test Type: flow-through test<br>Method: EPA OPP 72-1 |
|------------------|---|--|

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Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 60,4 mg/l Exposure time: 48 h Test Type: flow-through test  NOEC (Daphnia magna (Water flea)): 14,1 mg/l Exposure time: 48 h Test Type: flow-through test
Toxicity to algae/aquatic plants	:	EC50 (algae): 32,8 mg/l Exposure time: 72 h  EC50 (Pseudokirchneriella subcapitata (green algae)): 0,031 mg/l Exposure time: 120 h  EC50 (Lemna gibba (duckweed)): 0,0288 mg/l Exposure time: 14 d  EC50 (Navicula pelliculosa (Diatom)): 0,042 mg/l Exposure time: 120 h
Toxicity to fish (Chronic toxicity)	:	NOEC (Fish): 5,9 mg/l Exposure time: 21 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Crustaceans): 0,51 mg/l Exposure time: 21 d
Toxicity to terrestrial organisms	:	LD50 (Anas platyrhynchos (Mallard duck)): > 5.620 ppm End point: Acute oral toxicity  NOEL (Anas platyrhynchos (Mallard duck)): 3.160 ppm End point: Acute oral toxicity  LD50 (Colinus virginianus (Bobwhite quail)): > 5.620 ppm End point: Acute oral toxicity  NOEL (Colinus virginianus (Bobwhite quail)): 5.620 ppm End point: Acute oral toxicity  NOEL (Colinus virginianus (Bobwhite quail)): > 100 ppm End point: Reproduction Test  NOEL (Anas platyrhynchos (Mallard duck)): > 100 ppm End point: Reproduction Test  LD50 (Apis mellifera (bees)): > 25 µg/bee End point: Acute oral toxicity  LD50 (Apis mellifera (bees)): > 200 µg/bee End point: Acute contact toxicity

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**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

**ethanediol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 72.860 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : IC50 (Pseudokirchneriella subcapitata (green algae)): 10.940 mg/l  
Exposure time: 96 h

Toxicity to fish (Chronic toxicity) : (Menidia peninsulae (tidewater silverside)): 1.500 mg/l  
Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : (Daphnia magna (Water flea)): 33.911 mg/l  
Exposure time: 21 d

Toxicity to microorganisms : (activated sludge): > 1.995 mg/l  
Exposure time: 30 min  
Method: ISO 8192

**toluene:**

Toxicity to fish : LC50 (Fish): 5,5 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50: 3,78 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (Skeletonema costatum (marine diatom)): 10 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus kisutch (coho salmon)): 1,4 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia sp.): 0,74 mg/l  
Exposure time: 7 d

Toxicity to microorganisms : EC50 (Bacteria): 134 mg/l  
Exposure time: 3 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



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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:

##### **diuron (ISO):**

Biodegradability : Result: Not readily biodegradable.

Photodegradation :

##### **Sulfentrazone:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life (DT50): 2,22 - 9,56 h

Photodegradation : Remarks: Decomposes rapidly in contact with light.

##### **ethanediol:**

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Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90 - 100 %  
Exposure time: 10 d  
Method: OECD Test Guideline 301A

### **toluene:**

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

#### **Components:**

##### **diuron (ISO):**

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : Pow: 2,84 (20 °C)  
pH: 6,2  
Method: OECD Test Guideline 107

Pow: 2,87 (20 °C)  
pH: 4,03  
Method: OECD Test Guideline 107

Pow: 2,89 (20 °C)  
pH: 7,01  
Method: OECD Test Guideline 107

Pow: 2,87 (20 °C)  
pH: 9,0  
Method: OECD Test Guideline 107

##### **Sulfentrazone:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
GLP: yes  
Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : Pow: 9,8  
pH: 7

##### **ethanediol:**

Partition coefficient: n- : log Pow: -1,36

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octanol/water

### **toluene:**

Bioaccumulation : Bioconcentration factor (BCF): 90

Partition coefficient: n-octanol/water : log Pow: 2,73 (20 °C)

### **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).

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

log Pow: 0,99 (20 °C)  
pH: 5

### **Mobility in soil**

#### **Components:**

##### **diuron (ISO):**

Distribution among environmental compartments : Koc: 680 ml/g, log Koc: 2,83  
Remarks: Mobile in soils

Stability in soil : Remarks: Very persistent in soil.

##### **Sulfentrazone:**

Mobility : Medium: Water  
Remarks: Predicted distribution to environmental compartments

Distribution among environmental compartments : Koc: 43 ml/g, log Koc: 1,63  
Remarks: Highly mobile in soils

Stability in soil : Remarks: Very persistent 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 : Product contains substances which are persistent, bioaccu-

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assessment		mulative, and toxic (PBT).
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	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
------------------------	---	---

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  $\frac{1}{4}$  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

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### UNRTDG

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diuron, Sulfentrazone)

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. (Diuron, Sulfentrazone)

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

### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diuron, Sulfentrazone)

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

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

Not applicable for product as supplied.

### Domestic regulation

#### ANTT

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diuron, Sulfentrazone)

Class : 9  
Packing group : III  
Labels : 9  
Hazard Identification Number : 90

### 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.

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## 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 - (LINACH) : Not applicable

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.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.  Sulfentrazone Tall Oil, Polymer with Propylene Glycol and Succinic Anhydride Monopolyisobutylene Derivatives 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	: 05.05.2025
Date format	: dd.mm.yyyy

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### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
BR BEI	:	Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents
BR OEL	:	Brazil. NR 15 - Unhealthy activities and operations
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
BR OEL / LT	:	Up to 48 hours /week

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

### Disclaimer

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# SAFETY DATA SHEET



## STONE®

Version	Revision Date:	SDS Number:	Date of last issue: -
3.0	05.05.2025	50000167	Date of first issue: 29.05.2017

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