

# SAFETY DATA SHEET

according to the Hazardous Products Regulations



## GR1™ Herbicide

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: -           |
| 1.0     | 02/06/2024     | 50000103    | Date of first issue: 02/06/2024 |

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### SECTION 1. IDENTIFICATION

#### Product identifier

**Product name** GR1™ Herbicide

#### Other means of identification

**Product code** 50000103

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

**Recommended use** Herbicide

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

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

##### Manufacturer

FMC Corporation  
2929 WALNUT ST  
PHILADELPHIA PA 19104  
USA  
Phone (AgHotline): 1-833-FMC-PPAC (1-833-362-7722),  
Web: <https://ag.fmc.com/ca/en>  
SDS-Info@fmc.com

##### Supplier Address

FMC of Canada Limited  
6755 Mississauga Road, Suite 204  
Mississauga, ON L5N 7Y2  
Canada

##### Emergency telephone

For leak, fire, spill or accident emergencies, call:  
1 800 / 424-9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)

Medical emergency:  
U.S.A. & Canada: +1 800 / 331-3148  
All other countries: +1 651 / 632-6793 (Collect)

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### SECTION 2. HAZARDS IDENTIFICATION

#### **GHS classification in accordance with the Hazardous Products Regulations**

Skin sensitization : Sub-category 1B

#### **GHS label elements**

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Hazard pictograms

:



Signal Word

: Warning

Hazard Statements

: H317 May cause an allergic skin reaction.

Precautionary Statements

: P261 Avoid breathing dust.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.

### Response:

P302 + P352 IF ON SKIN: Wash with plenty of water and soap.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.

### Disposal:

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

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Components

| Chemical name   | Common Name/Synonym   | CAS-No.     | Concentration (% w/w) |
|---|---|-------------|-----------------------|
| pyroxsulam (ISO)  | pyroxsulam (ISO)  | 422556-08-9 | 13.13                 |
| Cloquintocet-mexyl  | Cloquintocet-mexyl  | 99607-70-2  | 13.13                 |
| kaolin  | kaolin  | 1332-58-7   | $\geq 20 - < 25$      |
| quinclorac (ISO)  | quinclorac (ISO)  | 84087-01-4  | $\geq 10 - \leq 20$   |
| citric acid   | citric acid   | 77-92-9     | $\geq 3 - \leq 10$    |
| sodium 2-[methyleoleoylamino]ethane-1-sulphonate  | sodium 2-[methyleoleoylamino]ethane-1-sulphonate  | 137-20-2    | $\geq 1 - \leq 3$     |
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ] | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ] | 13463-67-7  | $\geq 1 - \leq 3$     |
| Quartz (SiO <sub>2</sub> )  | quartz (SiO <sub>2</sub> )  | 14808-60-7  | $\geq 0.3 - < 1$      |

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### SECTION 4. FIRST AID MEASURES

- |   |  |
|---|--|
| General advice  | : Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.   |
| If inhaled  | : Move to fresh air.<br>If not breathing, give artificial respiration.<br>Call a physician or poison control center immediately.   |
| In case of skin contact                                     | : Take off all contaminated clothing immediately.<br>Wash off immediately with plenty of water for at least 15 minutes.<br>Call a physician if irritation develops or persists.  |
| In case of eye contact                                      | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Remove contact lenses.<br>Seek medical advice.   |
| If swallowed  | : If symptoms persist, call a physician or Poison Control Center immediately.<br>Give small amounts of water to drink.<br>DO NOT induce vomiting unless directed to do so by a physician or poison control center.<br>Never give anything by mouth to an unconscious person.   |
| Most important symptoms and effects, both acute and delayed | : May cause an allergic skin reaction.   |
| Protection of first-aiders                                  | : First Aid responders should pay attention to self-protection and use the recommended protective clothing<br>Avoid inhalation, ingestion and contact with skin and eyes.<br>If potential for exposure exists refer to Section 8 for specific personal protective equipment.   |
| Notes to physician  | : A specific antidote for exposure to this material is not known.<br>Gastric lavage and/or administration of activated charcoal can be considered. After decontamination, treatment of exposure is as for a general chemical and should be directed at the control of symptoms and the clinical condition.<br>Treat symptomatically.<br>Show this safety data sheet or product label to your doctor. |

### SECTION 5. FIRE-FIGHTING MEASURES

- |                                       |   |
|---------------------------------------|---|
| Suitable extinguishing media          | : Water spray, fog, or regular foam.  |
| Unsuitable extinguishing media        | : Dry chemical  |
| Specific hazards during fire fighting | : Do not allow run-off from fire fighting to enter drains or water courses. |

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- |  |   |   |
|--|---|---|
| Hazardous combustion products                  | : | hydrogen sulphide<br>Hydrogen fluoride<br>Hydrogen cyanide<br>Hydrogen chloride   |
| Further information                            | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : | Firefighters should wear protective clothing and self-contained breathing apparatus.  |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |   |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Avoid dust formation.<br>Avoid breathing dust.<br>Ensure adequate ventilation.<br>Never return spills in original containers for re-use.<br>Mark the contaminated area with signs and prevent access to unauthorized personnel.<br>Only qualified personnel equipped with suitable protective equipment may intervene.<br>For disposal considerations see section 13. |
| Environmental precautions   | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities.   |
| Methods and materials for containment and cleaning up               | : | Pick up and transfer to properly labeled containers without creating dust.<br>Keep in suitable, closed containers for disposal.   |

### SECTION 7. HANDLING AND STORAGE

- |   |   |  |
|---|---|--|
| Advice on protection against fire and explosion | : | Avoid dust formation.<br>Provide appropriate exhaust ventilation at places where dust is formed.   |
| Advice on safe handling                         | : | Avoid formation of respirable particles.<br>Do not breathe vapors/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Dispose of rinse water in accordance with local and national regulations. |

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Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Store in accordance with the particular national regulations.

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<br>(Form of exposure)                | Control parameters / Permissible concentration | Basis     |
|----------------------------|------------|---|--|-----------|
| kaolin                     | 1332-58-7  | TWA (Respirable)                                | 2 mg/m3  | CA AB OEL |
|                            |            | TWA (Respirable)                                | 2 mg/m3  | CA BC OEL |
|                            |            | TWAEV (respirable dust)                         | 2 mg/m3  | CA QC OEL |
|                            |            | TWA (Respirable particulate matter)             | 2 mg/m3  | ACGIH     |
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 | TWA (Respirable particulates)                   | 0.025 mg/m3                                    | CA AB OEL |
|                            |            | TWA (Respirable fraction)                       | 0.1 mg/m3                                      | CA ON OEL |
|                            |            | TWAEV (respirable dust)                         | 0.1 mg/m3                                      | CA QC OEL |
|                            |            | TWA (Respirable)<br>(Silica)                    | 0.025 mg/m3<br>(Silica)                        | CA BC OEL |
|                            |            | TWA (Respirable particulate matter)<br>(Silica) | 0.025 mg/m3<br>(Silica)                        | ACGIH     |

#### Personal protective equipment

Respiratory protection : In case of dust exposure wear suitable personal respiratory protection and protective suit.

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|                             |  |
|-----------------------------|--|
| Hand protection<br>Material | : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.  |
| Remarks                     | : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  |
| Eye protection              | : Eye wash bottle with pure water<br>Tightly fitting safety goggles  |
| Skin and body protection    | : Dust impervious protective suit<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.  |
| Protective measures         | : Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions.<br>Ensure that eye flushing systems and safety showers are located close to the working place.<br>Wear suitable protective equipment.<br>In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use. |
| Hygiene measures            | : When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.   |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                             |  |
|-----------------------------|--|
| Physical state              | : solid                                  |
| Form                        | : solid                                  |
| Color                       | : tan                                    |
| Odor                        | : sweet                                  |
| Odor Threshold              | : No data available                      |
| pH                          | : 5.17 (24 °C)<br>(1% solution in water) |
| Melting point               | : No data available                      |
| Boiling point/boiling range | : No data available                      |

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|  |   |   |
|--|---|---|
| Flash point                                      | : | Method: closed cup                        |
| Evaporation rate                                 | : | Not available for this mixture.           |
| 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  | : | 0.43 g/cm <sup>3</sup> (23.2 °C)          |
| Bulk density                                     | : | 0.43 g/cm <sup>3</sup> (23.2 °C)<br>loose |
| Solubility(ies)                                  |   |   |
| Water solubility                                 | : | No data available                         |
| Solubility in other solvents                     | : | No data available                         |
| Partition coefficient: n-octanol/water           | : | No data available                         |
| Autoignition temperature                         | : | No data available                         |
| Decomposition temperature                        | : | No data available                         |
| Viscosity  |   |   |
| Viscosity, dynamic                               | : | No data available                         |
| Viscosity, kinematic                             | : | No data available                         |
| Explosive properties                             | : | No data available                         |
| Oxidizing properties                             | : | No data available                         |

### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |   |
|------------------------------------|---|---|
| Reactivity                         | : | No decomposition if stored and applied as directed.                                 |
| Chemical stability                 | : | No decomposition if stored and applied as directed.                                 |
| Possibility of hazardous reactions | : | None reasonably foreseeable.<br>No decomposition if stored and applied as directed. |

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|                                  |   |   |
|----------------------------------|---|---|
| Conditions to avoid              | : | Avoid extreme temperatures.<br>Heat, flames and sparks. |
| Incompatible materials           | : | Avoid strong acids, bases, and oxidizers.               |
| Hazardous decomposition products | : | Carbon oxides   |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

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

#### Product:

|                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50 (Rat, female): > 5,000 mg/kg   |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 5 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Calculation method |
| Acute dermal toxicity     | : | LD50 (Rabbit, male and female): > 5,000 mg/kg   |

#### Components:

##### **pyroxsulam (ISO):**

|                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50 (Rat): > 2,000 mg/kg   |
| Acute inhalation toxicity | : | LC0 (Rat): > 5.12 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Remarks: no mortality |
| Acute dermal toxicity     | : | LD50 (Rat): > 2,000 mg/kg   |

##### **Cloquintocet-mexyl:**

|                           |   |  |
|---------------------------|---|--|
| Acute oral toxicity       | : | LD50 (Rat, male and female): > 5,000 mg/kg<br>Method: OECD Test Guideline 401  |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): > 0.935 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Assessment: The component/mixture is moderately toxic after short term inhalation. |
| Acute dermal toxicity     | : | LD50 Dermal (Rat, male and female): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute dermal toxicity  |



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### kaolin:

|                           |   |
|---------------------------|---|
| Acute oral toxicity       | : LD50 (Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 401<br><br>LD50: > 2,000 mg/kg<br>Method: OECD Test Guideline 420<br>Assessment: The substance or mixture has no acute oral toxicity |
| Acute inhalation toxicity | : LD50: 5.07 mg/l<br>Method: OECD Test Guideline 436  |
| Acute dermal toxicity     | : LD50 (Rat): > 5,000 mg/kg<br><br>LD50: > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute dermal toxicity                                  |

### quinclorac (ISO):

|                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50: 2,680 mg/kg  |
| Acute inhalation toxicity | : LC50: > 5.2 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist |
| Acute dermal toxicity     | : LD50: > 2,000 mg/kg  |

### citric acid:

|                       |  |
|-----------------------|--|
| Acute oral toxicity   | : LD50 (Mouse, male and female): 5,400 mg/kg<br>Method: OECD Test Guideline 401  |
| Acute dermal toxicity | : LD50 (Rat, male and female): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute dermal toxicity |

### sodium 2-[methyleoleoylamino]ethane-1-sulphonate:

|                       |   |
|-----------------------|---|
| Acute oral toxicity   | : LD50 (Rat): > 2,000 mg/kg<br>Method: OECD Test Guideline 401<br>Assessment: The substance or mixture has no acute oral toxicity   |
| Acute dermal toxicity | : LD50 (Rat): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute dermal toxicity |

### Quartz (SiO<sub>2</sub>):

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Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.01 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### Skin corrosion/irritation

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

#### Product:

Assessment : Not classified as irritant  
Remarks : No skin irritation

#### Components:

##### **pyroxsulam (ISO):**

Result : slight irritation

##### **Cloquintocet-mexyl:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Remarks : Minimal effects that do not meet the threshold for classification.

##### **kaolin:**

Method : OECD Test Guideline 404  
Result : No skin irritation

##### **quinclorac (ISO):**

Species : Rabbit  
Result : slight irritation

##### **citric acid:**

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

##### **sodium 2-[methyleoleoylamino]ethane-1-sulphonate:**

Species : Rabbit

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|        |   |                         |
|--------|---|-------------------------|
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation      |

### Quartz (SiO<sub>2</sub>):

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

### Serious eye damage/eye irritation

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

### Product:

|            |   |                            |
|------------|---|----------------------------|
| Assessment | : | Not classified as irritant |
| Remarks    | : | No eye irritation          |

### Components:

#### pyroxsulam (ISO):

|        |   |                   |
|--------|---|-------------------|
| Result | : | No eye irritation |
|--------|---|-------------------|

#### Cloquintocet-mexyl:

|            |   |  |
|------------|---|--|
| Species    | : | Rabbit   |
| Assessment | : | No eye irritation  |
| Method     | : | OECD Test Guideline 405  |
| Remarks    | : | Minimal effects that do not meet the threshold for classification. |

#### kaolin:

|        |   |                         |
|--------|---|-------------------------|
| Result | : | No eye irritation       |
| Method | : | OECD Test Guideline 405 |

#### quinclorac (ISO):

|         |   |                   |
|---------|---|-------------------|
| Species | : | Rabbit            |
| Result  | : | slight irritation |

#### citric acid:

|         |   |  |
|---------|---|--|
| Species | : | Rabbit                                       |
| Result  | : | Irritation to eyes, reversing within 21 days |
| Method  | : | OECD Test Guideline 405                      |

#### sodium 2-[methyleoleylamino]ethane-1-sulphonate:

|         |   |   |
|---------|---|---|
| Species | : | Rabbit                                      |
| Result  | : | Irritation to eyes, reversing within 7 days |
| Method  | : | OECD Test Guideline 405                     |

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### Quartz (SiO<sub>2</sub>):

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

### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

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

### Product:

|         |   |  |
|---------|---|--|
| Species | : | mice                                     |
| Result  | : | May cause sensitization by skin contact. |
| Remarks | : | May cause sensitization by skin contact. |

### Components:

#### pyroxsulam (ISO):

|        |   |  |
|--------|---|--|
| Result | : | May cause sensitization by skin contact. |
|--------|---|--|

#### Cloquintocet-mexyl:

|         |   |  |
|---------|---|--|
| Species | : | Guinea pig   |
| Method  | : | OECD Test Guideline 429                            |
| Result  | : | The product is a skin sensitizer, sub-category 1B. |

#### kaolin:

|        |   |                                    |
|--------|---|------------------------------------|
| Method | : | OECD Test Guideline 429            |
| Result | : | Does not cause skin sensitization. |

#### quinclorac (ISO):

|        |   |  |
|--------|---|--|
| Result | : | May cause sensitization by skin contact. |
|--------|---|--|

#### sodium 2-[methyleoleoylamino]ethane-1-sulphonate:

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

### Quartz (SiO<sub>2</sub>):

|           |   |                                      |
|-----------|---|--------------------------------------|
| Test Type | : | Local lymph node assay (LLNA)        |
| Species   | : | Mouse                                |
| Method    | : | OECD Test Guideline 429              |
| Result    | : | Does not cause skin sensitization.   |
| Remarks   | : | Based on data from similar materials |

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### Germ cell mutagenicity

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

#### Components:

##### **pyroxsulam (ISO):**

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

Test Type: Micronucleus test  
Test system: mouse lymphoma cells  
Result: negative

##### **Cloquintocet-mexyl:**

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

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

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Chinese hamster (male and female)  
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.

##### **kaolin:**

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Remarks: No data available

##### **citric acid:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Result: negative

Genotoxicity in vivo : Test Type: Cytogenetic assay  
Species: Rat

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Application Route: Oral  
Result: negative

### sodium 2-[methyleoleoylamino]ethane-1-sulphonate:

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

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

Genotoxicity in vivo : Remarks: No data available

### Quartz (SiO<sub>2</sub>):

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

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Rat  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

### Carcinogenicity

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

### Components:

#### pyroxsulam (ISO):

Species : Mouse, male  
NOAEL : 100

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

#### Cloquintocet-mexyl:

Species : Mouse, male  
Application Route : Oral  
Exposure time : 18 month(s)  
Dose : 1.1, 11, 111, 583 mg/kg  
NOAEL : 111 mg/kg body weight  
Result : negative

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

#### quinclorac (ISO):

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

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### sodium 2-[methyleoleoylamino]ethane-1-sulphonate:

Remarks : This information is not available.

### Quartz (SiO<sub>2</sub>):

Carcinogenicity - Assessment : Human carcinogen.

### Reproductive toxicity

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

### Components:

#### pyroxsulam (ISO):

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

#### Cloquintocet-mexyl:

Effects on fertility : General Toxicity F1: NOAEL: 420 mg/kg body weight  
Fertility: NOAEL: 830 mg/kg body weight  
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, 10, 60, 300 mg/kg bw/d  
General Toxicity Maternal: NOAEL: 60 mg/kg body weight  
Teratogenicity: NOAEL: 300 mg/kg body weight  
Developmental Toxicity: NOAEL: 60 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: negative

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

#### kaolin:

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

### sodium 2-[methyleoleoylamino]ethane-1-sulphonate:

Effects on fertility : Test Type: Fertility  
Species: Rat, male and female  
General Toxicity Parent: NOAEL: 1,000 mg/kg body weight  
Method: OECD Test Guideline 421  
Remarks: No data available

Effects on fetal development : Test Type: Pre-natal  
Species: Rat

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Application Route: Oral  
General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight  
Embryo-fetal toxicity.: NOAEL: 1,000 mg/kg body weight  
Method: OECD Test Guideline 414

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

### STOT-single exposure

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

#### Components:

##### **Cloquintocet-mexyl:**

Remarks : No significant adverse effects were reported

##### **kaolin:**

Remarks : No significant adverse effects were reported

##### **citric acid:**

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

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

#### Product:

Remarks : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

#### Components:

##### **pyroxsulam (ISO):**

Target Organs : Liver  
Assessment : May cause damage to organs through prolonged or repeated exposure.

##### **Cloquintocet-mexyl:**

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

##### **kaolin:**

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

##### **Quartz (SiO<sub>2</sub>):**

Routes of exposure : Inhalation  
Target Organs : Lungs  
Assessment : The substance or mixture is classified as specific target organ



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toxicant, repeated exposure, category 1.

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

### Repeated dose toxicity

#### Components:

##### **Cloquintocet-mexyl:**

|                   |   |                         |
|-------------------|---|-------------------------|
| Species           | : | Rat, male               |
| NOAEL             | : | 3.77 mg/kg              |
| Application Route | : | Oral                    |
| Exposure time     | : | 2 y                     |
| Dose              | : | 0.37, 3.8, 38, 75 mg/kg |
| Method            | : | OECD Test Guideline 451 |

|                   |   |                         |
|-------------------|---|-------------------------|
| Species           | : | Rat, male and female    |
| NOAEL             | : | 9.66 - 10.2 mg/kg       |
| Application Route | : | Oral                    |
| Exposure time     | : | 90 d                    |
| Dose              | : | 2.0, 9.7, 64, 384 mg/kg |
| Target Organs     | : | Bladder                 |

|                   |   |                           |
|-------------------|---|---------------------------|
| Species           | : | Rat, male and female      |
| NOAEL             | : | 1,000 mg/kg               |
| Application Route | : | Skin contact              |
| Exposure time     | : | 28 d                      |
| Dose              | : | 0, 50, 200 and 1000 mg/kg |
| Method            | : | OECD Test Guideline 410   |

##### **kaolin:**

|         |   |                   |
|---------|---|-------------------|
| Remarks | : | No data available |
|---------|---|-------------------|

##### **sodium 2-[methyleoleoylamino]ethane-1-sulphonate:**

|                   |   |                         |
|-------------------|---|-------------------------|
| Species           | : | Rat                     |
| NOAEL             | : | 1,000 mg/kg             |
| Application Route | : | Oral                    |
| Exposure time     | : | 28 d                    |
| Method            | : | OECD Test Guideline 407 |

##### **Quartz (SiO<sub>2</sub>):**

|                   |   |                                      |
|-------------------|---|--------------------------------------|
| Species           | : | Rat                                  |
| LOAEC             | : | 0.0025 mg/l                          |
| Application Route | : | Inhalation                           |
| Exposure time     | : | 90 day                               |
| Method            | : | OECD Test Guideline 413              |
| Target Organs     | : | Lungs                                |
| Remarks           | : | Based on data from similar materials |

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### Aspiration toxicity

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

#### Product:

No aspiration toxicity classification

#### Components:

##### **Cloquintocet-mexyl:**

No aspiration toxicity classification

### Further information

#### Product:

Remarks : No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

#### Components:

##### **pyroxsulam (ISO):**

Toxicity to fish : (Oncorhynchus mykiss (rainbow trout)): > 87 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : (Daphnia): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 0.135 mg/l  
Exposure time: 96 h

EC50 (Lemna gibba (gibbous duckweed)): 0.00257 mg/l  
Exposure time: 7 d

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): > 10.1 mg/l  
Exposure time: 40 d

##### **Cloquintocet-mexyl:**

Toxicity to fish : LC50 (Salmo gairdneri): > 76 mg/l

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|  |   |  |
|--|---|--|
|  |   | Exposure time: 96 h  |
|  |   | LC50 (Ictalurus punctatus (channel catfish)): 14 mg/l      |
|  |   | Exposure time: 96 h  |
|  |   | Method: OECD Test Guideline 203                            |
| Toxicity to daphnia and other aquatic invertebrates                    | : | LC50 (Daphnia magna (Water flea)): > 100 mg/l              |
|  |   | Exposure time: 48 h  |
|  |   | Test Type: static test                                     |
| Toxicity to algae/aquatic plants                                       | : | EC50 (Desmodesmus subspicatus (green algae)): 0.63 mg/l    |
|  |   | Exposure time: 96 h  |
|  |   | Test Type: static test                                     |
|  |   | NOEC (Desmodesmus subspicatus (green algae)): 0.09 mg/l    |
|  |   | Exposure time: 72 h  |
|  |   | Test Type: static test                                     |
|  |   | Method: OECD Test Guideline 201                            |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 32 mg/l                 |
|  |   | End point: reproduction                                    |
|  |   | Exposure time: 21 d  |
|  |   | Method: OECD Test Guideline 211                            |
| Toxicity to microorganisms   | : | EC50 (activated sludge): > 1,000 mg/l                      |
|  |   | Exposure time: 3 h   |
|  |   | Method: OECD Test Guideline 209                            |
| Toxicity to soil dwelling organisms                                    | : | LC50 (Eisenia fetida (earthworms)): 1,000 mg/kg            |
|  |   | Exposure time: 14 d  |
|  |   | Method: OECD Test Guideline 207                            |
| Toxicity to terrestrial organisms                                      | : | LD50 (Colinus virginianus (Bobwhite quail)): > 2,000 mg/kg |
|  |   | NOEC (Colinus virginianus (Bobwhite quail)): 500 mg/kg     |
|  |   | LD50 (Anas platyrhynchos (Mallard duck)): > 2,000 mg/kg    |
|  |   | NOEC (Anas platyrhynchos (Mallard duck)): 500 mg/kg        |
|  |   | LD50 (Apis mellifera (bees)): >100 ug/bee                  |
|  |   | Exposure time: 48 d  |
|  |   | End point: Acute oral toxicity                             |
|  |   | LD50 (Apis mellifera (bees)): >100 ug/bee                  |
|  |   | Exposure time: 48 d  |
|  |   | End point: Acute contact toxicity                          |
| <b>kaolin:</b>   |   |  |
| Toxicity to fish   | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l     |
|  |   | Exposure time: 96 h  |
|  |   | Method: OECD Test Guideline 203                            |

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

### quinclorac (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 113.14 mg/l  
Exposure time: 48 h  
  
LC50 (Mysidopsis bahia (opossum shrimp)): 0.069 mg/l  
Exposure time: 96 h

### citric acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,535 mg/l  
Exposure time: 24 h

### sodium 2-[methyleoleoylamino]ethane-1-sulphonate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1.32 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 5.76 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 117 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 2 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

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Method: OECD Test Guideline 209

### Quartz (SiO<sub>2</sub>):

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 10,000 mg/l  
Exposure time: 72 h

### Persistence and degradability

#### Components:

#### pyroxsulam (ISO):

Biodegradability : Method: OECD Test Guideline 301B  
Remarks: Not readily biodegradable.

#### Cloquintocet-mexyl:

Biodegradability : Result: Not readily biodegradable.

#### kaolin:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

#### quinclorac (ISO):

Biodegradability : Biodegradation: 10 %  
Exposure time: 28 d

#### citric acid:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 97 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

#### sodium 2-[methyloleoylamino]ethane-1-sulphonate:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 80 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### Quartz (SiO<sub>2</sub>):

Biodegradability : Result: Not biodegradable

### Bioaccumulative potential

#### Components:

#### pyroxsulam (ISO):

Bioaccumulation : Remarks: Accumulation in aquatic organisms is expected.

Partition coefficient: n- : log Pow: -1.01

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|----------------|------------------------------|-------------------------|--|

octanol/water

### **Cloquintocet-mexyl:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 1,000  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 5.03 (25 °C)

### **kaolin:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Not applicable

### **sodium 2-[methyleoleoylamino]ethane-1-sulphonate:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 2.9  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1.36  
Method: OECD Test Guideline 117  
Remarks: Not applicable

### **Quartz (SiO<sub>2</sub>):**

Bioaccumulation : Remarks: Does not bioaccumulate.

### **Mobility in soil**

#### **Components:**

#### **pyroxsulam (ISO):**

Distribution among environmental compartments : Koc: 33.2 ml/g, log Koc: 1.52  
Remarks: Highly mobile in soils

Stability in soil :

#### **Cloquintocet-mexyl:**

Distribution among environmental compartments : Remarks: immobile

#### **kaolin:**

Distribution among environmental compartments : Remarks: Low mobility in soil.

#### **sodium 2-[methyleoleoylamino]ethane-1-sulphonate:**

Distribution among environmental compartments : Koc: 53.4 ml/g, log Koc: 1.72

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mental compartments

Remarks: Highly mobile in soils

### Other adverse effects

#### Product:

Additional ecological information

: Environmental hazards  
Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.  
Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.  
See product label for additional application instructions relating to environmental precautions.

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

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Cloquintocet-mexyl, PYROXSULAM)  
Class : 9  
Subsidiary risk : ENVIRONM.  
Packing group : III  
Labels : 9 (ENVIRONM.)  
Environmentally hazardous : yes

#### IATA-DGR

UN/ID No. : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Cloquintocet-mexyl, PYROXSULAM)  
Class : 9

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Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 956  
Packing instruction (passenger aircraft) : 956  
Environmentally hazardous : yes

### IMDG-Code

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Cloquintocet-mexyl, PYROXSULAM)  
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

#### TDG

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(, )  
Class : 9  
Packing group : III  
Labels : 9  
ERG Code : 171  
Marine pollutant : yes(, )

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### 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.  
  
Cloquintocet-mexyl



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pyroxsulam (ISO)

INERT INGREDIENTS (NULL)

|       |   |                                      |
|-------|---|--------------------------------------|
| 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 |

### Canadian lists

No substances are subject to a Significant New Activity Notification.

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

|                   |   |  |
|-------------------|---|--|
| ACGIH             | : | USA. ACGIH Threshold Limit Values (TLV)  |
| CA AB OEL         | : | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)  |
| CA BC OEL         | : | Canada. British Columbia OEL   |
| CA ON OEL         | : | Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.   |
| CA QC OEL         | : | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for air-borne contaminants |
| ACGIH / TWA       | : | 8-hour, time-weighted average  |
| CA AB OEL / TWA   | : | 8-hour Occupational exposure limit   |
| CA BC OEL / TWA   | : | 8-hour time weighted average   |
| CA ON OEL / TWA   | : | Time-Weighted Average Limit (TWA)  |
| CA QC OEL / TWAEV | : | Time-weighted average exposure value   |

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

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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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End of Material Safety Data Sheet