

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## Panoflex(TM) Herbicide (with TotalSol(R) soluble granules)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.10.2022	50000089	Date of first issue: 14.10.2022

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** Panoflex(TM) Herbicide (with TotalSol(R) soluble granules)

#### Other means of identification

**Product code** 50000089

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

**Use of the Substance/Mixture** Can be used as herbicide only.  
Herbicide

**Recommended restrictions on use** Use as recommended by the label.

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

#### Supplier Address

FMC France  
11 bis Quai Perrache  
69002 LYON  
France

Telephone: 04 37 23 65 70  
Telefax: 04 78 71 08 46  
E-mail address: SDS-Info@fmc.com, fmc.france@fmc.com  
(E-Mail General Information)

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
Company emergency number - BIG (24 hours):  
+32 14 58 45 45

Medical emergency:  
Poison centers in France:  
Paris: 01.40.05.48.48  
Lyon: 04.72.11.69.11  
Marseille: 04.91.75.25.25  
Lille: 0800 59 59 59  
ORFILA: +33 (0) 1 45 42 59 59 (poison control center)  
Company: 04.37.23.65.70, accessible from 8:30 am to 6:00  
pm, Monday to Friday

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P260 Do not breathe dust. P273 Avoid release to the environment. P280 Wear protective gloves. <b>Response:</b> P314 Get medical advice/ attention if you feel unwell. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P391 Collect spillage.

##### Hazardous components which must be listed on the label:

Tribenuron-methyl

#### 2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Tribenuron-methyl	101200-48-0 401-190-1 607-177-00-9	Skin Sens. 1; H317 STOT RE 2; H373 (Thyroid, Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	>= 30 - < 50
thifensulfuron-methyl (ISO)	79277-27-3  016-096-00-2	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	>= 2,5 - < 10
sodium carbonate	497-19-8 207-838-8 011-005-00-2	Eye Irrit. 2; H319	>= 1 - < 10
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10

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		STOT SE 3; H335 (Respiratory system)	
		Acute toxicity estimate	
		Acute inhalation toxicity (dust/mist): 0,830083 mg/l	

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of 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              | : Consult a physician after significant exposure.<br>If unconscious, place in recovery position and seek medical advice.  |
| In case of skin contact | : If on skin, rinse well with water.  |
| In case of eye contact  | : Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                                   |
| If swallowed            | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

#### 4.2 Most important symptoms and effects, both acute and delayed

- |       |  |
|-------|--|
| Risks | : May cause an allergic skin reaction.<br>May cause damage to organs through prolonged or repeated exposure. |
|-------|--|

#### 4.3 Indication of any immediate medical attention and special treatment needed

- |           |                          |
|-----------|--------------------------|
| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray, fog, or regular foam.

Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Carbon oxides  
Hydrogen cyanide  
Oxides of phosphorus

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : 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.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Ensure adequate ventilation.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
For disposal considerations see section 13.

#### 6.2 Environmental precautions

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.

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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/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.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

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

### 7.3 Specific end use(s)

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

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
sodium carbonate	Workers	Inhalation	Long-term local effects	10 mg/m3
	Consumers	Inhalation	Acute local effects	10 mg/m3
Phosphoric acid, trisodium salt, dodecahydrate	Workers	Inhalation	Long-term systemic effects	4,07 mg/m3
	Consumers	Inhalation	Long-term systemic effects	3,04 mg/m3

##### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Phosphoric acid, trisodium salt, dodecahydrate	Sewage treatment plant	50 mg/l

#### 8.2 Exposure controls

##### Personal protective equipment

- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles
- Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.  
Equipment should conform to EN 143
- Filter type : Particulates type (P)
- Protective measures : Plan first aid action before beginning work with this product.  
Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: solid, granular
Colour	: light brown
Odour	: none
Odour Threshold	: No data available
	: No data available
	: No data available
Flammability	: The product is not flammable.
Upper explosion limit / Upper flammability limit	: Not available for this mixture.
Lower explosion limit / Lower flammability limit	: Not available for this mixture.
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: Not available for this mixture.
pH	: 9,4
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Not applicable
Vapour pressure	: Not available for this mixture.
Relative density	: Not available for this mixture.



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Bulk density	:	(22,3 °C)
Relative vapour density	:	Not available for this mixture.
Particle characteristics		
Particle size	:	No data available
Particle Size Distribution	:	No data available
Shape	:	No data available

### 9.2 Other information

Explosives	:	No data available
Oxidizing properties	:	No data available
Self-ignition	:	No data available Not available for this mixture.
Evaporation rate	:	Not available for this mixture.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid

Conditions to avoid	:	No data available
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### 10.5 Incompatible materials

Materials to avoid	:	Not applicable
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### 10.6 Hazardous decomposition products

No decomposition if stored normally.

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

Not classified based on available information.

##### Product:

- |                           |   |
|---------------------------|---|
| Acute oral toxicity       | : LD50 (Rat): > 5.000 mg/kg<br>Remarks: (Data on the product itself)<br>Information source: Internal study report   |
| Acute inhalation toxicity | : LC50 (Rat): > 5,0 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>GLP: yes<br>Remarks: Information given is based on data obtained from similar substances.<br>Information source: Internal study report |
| Acute dermal toxicity     | : LD50 (Rabbit): > 5.000 mg/kg<br>Remarks: (Data on the product itself)<br>Information source: Internal study report  |

##### Components:

##### **Tribenuron-methyl:**

- |                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50: > 5.000 mg/kg<br>Method: OECD Test Guideline 425   |
| Acute inhalation toxicity | : LC50 (Rat): > 5,14 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403 |
| Acute dermal toxicity     | : LD50 (Rat): > 5.000 mg/kg<br>Method: OECD Test Guideline 402   |

##### **thifensulfuron-methyl (ISO):**

- |                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (Rat): > 5.000 mg/kg  |
| Acute inhalation toxicity | : LC50 (Rat): > 5,03 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403 |
| Acute dermal toxicity     | : LD50 (Rat): > 2.000 mg/kg  |

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### **sodium carbonate:**

Acute oral toxicity	: LD50 (Rat, male and female): 2.800 mg/kg
Acute inhalation toxicity	: LC50 (Rat, male): 2,3 mg/l Exposure time: 2 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rabbit): > 2.000 mg/kg Target Organs: Skin Symptoms: Erythema

### **Phosphoric acid, trisodium salt, dodecahydrate:**

Acute oral toxicity	: LD50 (Rat, female): > 2.000 mg/kg Method: OECD Test Guideline 420 Remarks: no mortality
Acute inhalation toxicity	: LC50 (Rat, male and female): > 0,83 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on data from similar materials no mortality  Acute toxicity estimate: 0,830083 mg/l Test atmosphere: dust/mist Method: Calculation method Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rat, male and female): > 2.000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials no mortality

### **Skin corrosion/irritation**

Not classified based on available information.

### **Product:**

Species	: Rabbit
Result	: No skin irritation
Remarks	: (Data on the product itself) Information source: Internal study report

### **Components:**

#### **Tribenuron-methyl:**

Species	: Rabbit
Assessment	: Not classified as irritant

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Method : OECD Test Guideline 404  
Remarks : May cause mild irritation.  
Based on available data, the classification criteria are not met.

### thifensulfuron-methyl (ISO):

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

### sodium carbonate:

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation

### Phosphoric acid, trisodium salt, dodecahydrate:

Species : Rabbit  
Result : Skin irritation

Species : Rabbit  
Result : No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

### Product:

Species : Rabbit  
Result : No eye irritation  
Remarks : (Data on the product itself)  
Information source: Internal study report

### Components:

#### Tribenuron-methyl:

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Remarks : May cause mild irritation.  
Based on available data, the classification criteria are not met.

### thifensulfuron-methyl (ISO):

Method : OECD Test Guideline 405  
Result : No eye irritation

### sodium carbonate:

Species : Rabbit

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Result : Irritation to eyes, reversing within 21 days

### Phosphoric acid, trisodium salt, dodecahydrate:

Species	: Rabbit
Method	: EPA OTS 798.4500
Result	: Irritation to eyes, reversing within 21 days

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

### Product:

Species	: Guinea pig
Result	: Causes sensitisation.
Remarks	: (Data on the product itself) Information source: Internal study report

### Components:

#### Tribenuron-methyl:

Test Type	: Maximisation Test
Species	: Guinea pig
Assessment	: May cause sensitisation by skin contact.
Method	: OECD Test Guideline 406
Result	: Causes skin sensitization.

#### thifensulfuron-methyl (ISO):

Species	: Guinea pig
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitisation.

### Phosphoric acid, trisodium salt, dodecahydrate:

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

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Tribenuron-methyl:

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Germ cell mutagenicity- Assessment : Did not show mutagenic effects in animal experiments.

### thifensulfuron-methyl (ISO):

Genotoxicity in vitro : Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: In vitro tests did not show mutagenic effects

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

### sodium carbonate:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative  
Remarks: Based on data from similar materials

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

### Phosphoric acid, trisodium salt, dodecahydrate:

Genotoxicity in vitro : Test Type: gene mutation test  
Method: OECD Test Guideline 490  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Micronucleus test  
Method: OECD Test Guideline 487  
Result: negative

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

### Carcinogenicity

Not classified based on available information.

### Components:

#### Tribenuron-methyl:

Remarks : No significant adverse effects were reported

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

### thifensulfuron-methyl (ISO):

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

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### Reproductive toxicity

Not classified based on available information.

### Components:

#### **Tribenuron-methyl:**

Reproductive toxicity - Assessment : No toxicity to reproduction  
Animal testing did not show any effects on foetal development., Did not show teratogenic effects in animal experiments.

#### **thifensulfuron-methyl (ISO):**

Reproductive toxicity - Assessment : Did not show teratogenic effects in animal experiments.

#### **sodium carbonate:**

Effects on foetal development : Species: Rat  
Application Route: Oral  
Dose: 2.45, 11.4, 52.9, 245 milligram per kilogram  
Duration of Single Treatment: 6 - 15 d  
General Toxicity Maternal: NOAEL: > 245 mg/kg body weight  
Teratogenicity: NOAEL: > 245 mg/kg body weight  
Result: negative

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

#### **Phosphoric acid, trisodium salt, dodecahydrate:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 1000 mg/kgbw  
General Toxicity - Parent: NOAEL: 1.000 mg/kg bw/day  
General Toxicity F1: NOAEL: 1.000 mg/kg bw/day  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Oral  
Dose: 4.1, 19, 88.3, 410 mg/kgbw/day  
Duration of Single Treatment: 20 d  
General Toxicity Maternal: NOAEL: > 410 mg/kg bw/day  
Embryo-foetal toxicity: NOAEL: > 410 mg/kg bw/day  
Result: negative  
Remarks: Based on data from similar materials

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





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Target Organs : No specific target organs noted  
Symptoms : Reduced body weight

### sodium carbonate:

Species : Rat, male and female  
NOAEL : > 0,01 mg/kg  
Application Route : inhalation (dust/mist/fume)  
Test atmosphere : dust/mist

### Phosphoric acid, trisodium salt, dodecahydrate:

Species : Dog, female  
NOAEL : 492.77 mg/kg bw/day  
LOAEL : 1433.56 mg/kg bw/day  
Application Route : Oral - feed  
Exposure time : 90 d  
Dose : 129.31,492.77,1433.56mg/kgbw/d  
Target Organs : Kidney  
Remarks : Based on data from similar materials

Species : Dog, male  
NOAEL : 322.88 mg/kg bw/day  
LOAEL : 1107.12 mg/kg bw/day  
Application Route : Oral - feed  
Exposure time : 90 d  
Dose : 94.23,322.88,1107.12mg/kgbw/da  
Target Organs : Kidney  
Remarks : Based on data from similar materials

### Aspiration toxicity

Not classified based on available information.

### Product:

No aspiration toxicity classification

### Components:

#### Tribenuron-methyl:

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

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### Further information

#### Product:

Remarks : Information given is based on data on the components.

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): Remarks: Information source: Internal study report

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): Exposure time: 48 h  
Remarks: (Data on the product itself)  
Information source: Internal study report

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): Exposure time: 96 h  
Remarks: (Data on the product itself)  
Information source: Internal study report

ErC50 (Lemna gibba (duckweed)): Exposure time: 7 d  
Remarks: (Data on the product itself)  
Information source: Internal study report

#### Components:

##### **Tribenuron-methyl:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 738 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Crustaceans): > 320 mg/l  
Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): > 894 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0,068 mg/l  
Exposure time: 72 h

ErC50 (Lemna gibba (duckweed)): 0,0047 mg/l  
Exposure time: 7 d

NOEC (Lemna gibba (duckweed)): 0,001 mg/l

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Exposure time: 7 d

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 114 mg/l  
Exposure time: 21 d  
Species: Cyprinodon variegatus (sheepshead minnow)  
Method: OECD Test Guideline 211

NOEC: 560 mg/l  
Exposure time: 21 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 41 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to soil dwelling organisms : NOEC: 3,2 mg/kg  
Exposure time: 56 d  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: > 2.250 mg/kg  
Species: Colinus virginianus (Bobwhite quail)

LD50: > 5.620 ppm  
Species: Colinus virginianus (Bobwhite quail)  
Remarks: Dietary

LD50: > 5.620 ppm  
Species: Anas platyrhynchos (Mallard duck)  
Remarks: Dietary

LD50: > 98.4 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)

LD50: > 9.1 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

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### thifensulfuron-methyl (ISO):

- |  |   |  |
|--|---|--|
| Toxicity to fish   | : | LC50 (Salmo gairdneri): 100 mg/l<br>Exposure time: 96 h<br><br>LC50 (Oncorhynchus mykiss (rainbow trout)): > 250 mg/l<br>Exposure time: 96 h   |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): > 120 mg/l<br>Exposure time: 48 h   |
| Toxicity to algae/aquatic plants                                       | : | IC50 (green algae): 0,0159 mg/l<br>Exposure time: 72 h<br><br>ErC50 (Raphidocelis subcapitata (freshwater green alga)): 1,4 mg/l<br>Exposure time: 72 h<br><br>EC50 (Lemna minor (duckweed)): 1.3 µg/l   |
| M-Factor (Acute aquatic toxicity)                                      | : | 100  |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC: 250 mg/l<br>Exposure time: 28 d<br>Species: Salmo gairdneri<br><br>NOEC: 10,6 mg/l<br>Exposure time: 21 d<br>Species: Oncorhynchus mykiss (rainbow trout)  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 100 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)   |
| M-Factor (Chronic aquatic toxicity)                                    | : | 100  |
| Toxicity to soil dwelling organisms                                    | : | LC50: > 2.000 mg/kg<br>Species: Eisenia fetida (earthworms)  |
| Toxicity to terrestrial organisms                                      | : | LD50: > 2.510 mg/kg<br>Species: Anas platyrhynchos (Mallard duck)<br><br>LD50: > 5.620 ppm<br>Species: Anas platyrhynchos (Mallard duck)<br>Remarks: Dietary<br><br>LD50: > 5.620 ppm<br>Species: Colinus virginianus (Bobwhite quail)<br><br>LD50: > 7.1 µg/bee<br>End point: Acute oral toxicity |

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Species: Apis mellifera (bees)

LD50: > 100 µg/bee  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

### sodium carbonate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia (water flea)): 200 mg/l  
Exposure time: 48 h  
Test Type: semi-static test

### Phosphoric acid, trisodium salt, dodecahydrate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

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

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: EU Method C3  
Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: EU Method C3  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

NOEC (activated sludge): 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

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Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms : LC50: > 3.500 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207  
Remarks: Based on data from similar materials

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Result: Not readily biodegradable.  
Remarks: Estimation based on data obtained on active ingredient.

#### Components:

##### **Tribenuron-methyl:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: The product/substance is not persistent in the environment.  
Primary degradation half-lives vary with circumstances, from a few days to a few weeks in aerobic water and soil.  
Metabolites are considered as persistent.  
According to the results of tests of biodegradability this product is not readily biodegradable.

##### **thifensulfuron-methyl (ISO):**

Biodegradability : Remarks: Not readily biodegradable.  
Primary degradation half-lives vary with circumstances, from a few days to a few weeks in aerobic water and soil.

##### **sodium carbonate:**

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

### 12.3 Bioaccumulative potential

#### Components:

##### **Tribenuron-methyl:**

Bioaccumulation : Bioconcentration factor (BCF): < 1  
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -0,38

##### **thifensulfuron-methyl (ISO):**

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Bioaccumulation : Bioconcentration factor (BCF): 1  
Remarks: Does not bioaccumulate.

### sodium carbonate:

Bioaccumulation : Remarks: Does not bioaccumulate.

## 12.4 Mobility in soil

### Product:

Distribution among environmental compartments : Remarks: The product is not expected to be mobile in soils.

### Components:

#### Tribenuron-methyl:

Distribution among environmental compartments : Remarks: Under normal conditions the active ingredient/s is/are of high to intermediate mobility in soil. There is a potential for leaching to groundwater.

#### thifensulfuron-methyl (ISO):

Distribution among environmental compartments : Koc: 28,3, log Koc: 1,45  
Remarks: Highly mobile in soils

Stability in soil :

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).. This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### 12.7 Other adverse effects

#### Product:

Additional ecological information : See product label for additional application instructions relating to environmental precautions.

No other ecological effects to be specially mentioned.

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

### 13.1 Waste treatment methods

Product : 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

### 14.1 UN number or ID number

ADN	: UN 3077
ADR	: UN 3077
RID	: UN 3077
IMDG	: UN 3077
IATA	: UN 3077

### 14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron-methyl, Thifensulfuron-methyl)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron-methyl, Thifensulfuron-methyl)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron-methyl, Thifensulfuron-methyl)



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**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Tribenuron-methyl, Thifensulfuron-methyl)

**IATA** : Environmentally hazardous substance, solid, n.o.s.  
(Tribenuron-methyl, Thifensulfuron-methyl)

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADN</b>	: 9	
<b>ADR</b>	: 9	
<b>RID</b>	: 9	
<b>IMDG</b>	: 9	
<b>IATA</b>	: 9	

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

**ADR**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

**RID**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956

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Packing group	:	III
Labels	:	Miscellaneous

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA (Passenger)

Environmentally hazardous : yes

#### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 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.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation : Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

Occupational Illnesses (R-461-3, France) : 78

Reinforced medical supervision (R4624-18) : The product has no CMR properties

ICPE section (Installations classified for environmental protection; Environmental code R511-9) : 4510

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components 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.
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

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### 15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

## SECTION 16: Other information

### Full text of H-Statements

H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H335	: May cause respiratory irritation.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Irrit.	: Eye irritation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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 Re-

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striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Sens. 1	H317
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

### Disclaimer

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