

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## PROVALIA® LQM®

Version	Revision Date:	SDS Number:	Date of last issue: -
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** PROVALIA® LQM®

##### Other means of identification

**Product code** 50000951

**Unique Formula Identifier (UFI)** : NM6X-N2G2-6N4R-CD5N

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

**Use of the Substance/Mixture** : Herbicide

**Recommended restrictions on use** : Use as recommended by the label.  
For professional users only.

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

**Supplier Address** FMC Agricultural Solutions A/S  
Thyborønvej 78  
DK-7673 Harbøre  
Denmark

Telephone: +45 9690 9690  
Telefax: +45 9690 9691  
E-mail address: SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
Ireland: 353-19014670 (CHEMTREC)

Medical emergency:  
Ireland (Republic): +352 1 809 2166

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

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Skin sensitisation, Sub-category 1B	H317: May cause an allergic skin reaction.
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.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### **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.  
P391 Collect spillage.

#### **Disposal:**

P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

#### Additional Labelling

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

For special phrases (SP) and safety intervals, consult the label.

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### 2.3 Other hazards

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)
fluroxypyr-meptyl (ISO)	81406-37-3 279-752-9 607-272-00-5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 10 - < 20
12-Hydroxystearic acid, oligomers, reaction products with stearic acid	58128-22-6 500-140-7	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10
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
metsulfuron-methyl (ISO)	74223-64-6  613-139-00-2	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute	>= 0.25 - < 1

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		aquatic toxicity): 1,000 M-Factor (Chronic aquatic toxicity): 1,000	
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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.  |
| Protection of first-aiders | : Avoid inhalation, ingestion and contact with skin and eyes.   |
| If inhaled                 | : Remove to fresh air.<br>If unconscious, place in recovery position and seek medical advice.<br>If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance. |
| In case of skin contact    | : If on clothes, remove clothes.<br>If on skin, rinse well with water.<br>Wash off with soap and plenty of water.<br>Get medical attention immediately if irritation develops and persists.   |
| 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>Do not induce vomiting without medical advice.   |

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

- |       |   |
|-------|---|
| Risks | : May cause an allergic skin reaction.<br>Repeated exposure may cause skin dryness or cracking. |
|-------|---|

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

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

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Immediate medical attention is required in case of ingestion.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.  
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 : Fire may produce irritating, corrosive and/or toxic gases.  
Hydrogen cyanide  
Carbon oxides  
Fluorinated compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Chlorinated compounds

#### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.
- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Use a water spray to cool fully closed containers.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### SECTION 6: Accidental release measures

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

- Personal precautions : Evacuate personnel to safe areas.  
Do not touch or walk through the spilled material.  
If it can be safely done, stop the leak.  
Use personal protective equipment.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to

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unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.

### 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.

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

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

### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Avoid breathing mist or vapours.  
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.  
For incompatible materials see section 10.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Do not inhale aerosol. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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

Requirements for storage : Keep container tightly closed in a dry and well-ventilated

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areas and containers 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 conditions : The product is stable under normal conditions of warehouse storage. Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face 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 : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

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.

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When using do not eat, drink or smoke.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Form	: oily, suspension
Colour	: light yellow
Odour	: oily
Odour Threshold	: not determined
Melting point/freezing point	: not determined
Boiling point/boiling range	: Decomposition
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Flash point	: 172 °C Method: Regulation (EC) No. 440/2008, Annex, A.9
Auto-ignition temperature	: No data available
Decomposition temperature	: not determined
pH	: 4.5 (20 °C) Concentration: 10 g/l 1 % Method: CIPAC MT 75.3
Viscosity	
Viscosity, dynamic	: 520.7 mPa.s (23.7 °C) Method: CIPAC MT 192 100 rpm
Viscosity, kinematic	: not determined
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Not available for this mixture.
Vapour pressure	: Not available for this mixture.
Relative density	: 0.9893 (20 °C) Method: Regulation (EC) No. 440/2008, Annex, A.3
Density	: not determined
Relative vapour density	: not determined
Particle characteristics	
Particle size	: Not applicable
Particle Size Distribution	: Not applicable
Shape	: Not applicable

### 9.2 Other information

Explosives	: Not explosive Method: Regulation (EC) No. 440/2008, Annex, A.14
Oxidizing properties	: The product is not oxidizing. Method: Regulation (EC) No. 440/2008, Annex, A.21



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Flammability (liquids)	:	ignitable, Does not sustain combustion.
Self-ignition	:	350 °C
		Method: EEC A.15
Evaporation rate	:	Not available for this mixture.
Miscibility with water	:	dispersible

## 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.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.  
Avoid formation of aerosol.  
Protect from frost, heat and sunlight.  
Heating of the mixture may evolve harmful and irritant vapours.

### 10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers

### 10.6 Hazardous decomposition products

Stable under recommended storage conditions.

## 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  
Method: OECD Test Guideline 425  
Remarks: (Data on the product itself)  
Information source: Internal study report

Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

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Remarks: (Data on the product itself)  
Information source: Internal study report

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: (Data on the product itself)  
Information source: Internal study report

### Components:

#### **fluroxypyr-meptyl (ISO):**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 1 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

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

#### **12-Hydroxystearic acid, oligomers, reaction products with stearic acid:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

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

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

Acute inhalation toxicity : LC50 (Rat): > 5.03 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

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

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: US EPA Test Guideline OPP 81-1  
Assessment: The substance or mixture has no acute oral toxicity

LD50 (Rat, female): > 5,000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: no mortality

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Acute inhalation toxicity : LC50 (Rat, male and female): > 5.11 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Breathing difficulties  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Symptoms: Irritation  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: no mortality

### Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

#### Product:

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Remarks : (Data on the product itself)  
Information source: Internal study report

Assessment : Repeated exposure may cause skin dryness or cracking.

#### Components:

##### **fluroxypyr-meptyl (ISO):**

Species : Rabbit  
Assessment : Not classified as irritant  
Result : No skin irritation

##### **12-Hydroxystearic acid, oligomers, reaction products with stearic acid:**

Species : Rabbit  
Result : Skin irritation

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

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

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

Species : Rabbit

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Assessment	:	Not classified as irritant
Method	:	US EPA Test Guideline OPP 81-5
Result	:	No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Remarks	:	(Data on the product itself)

Information source: Internal study report

#### Components:

##### **fluroxypyr-meptyl (ISO):**

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

##### **12-Hydroxystearic acid, oligomers, reaction products with stearic acid:**

Species	:	Rabbit
Method	:	Draize Test
Result	:	Mild eye irritation

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

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

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

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

### Respiratory or skin sensitisation

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Product:

Species	:	Mouse
Assessment	:	The product is a skin sensitiser, sub-category 1B.
Method	:	OECD Test Guideline 429

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Result : Causes skin sensitization.  
Remarks : (Data on the product itself)  
Information source: Internal study report

### Components:

#### **fluroxypyr-meptyl (ISO):**

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

#### **12-Hydroxystearic acid, oligomers, reaction products with stearic acid:**

Test Type : Maximisation Test  
Species : Guinea pig  
Result : Does not cause skin sensitisation.

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

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

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

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : US EPA Test Guideline OPPTS 870.2600  
Result : Not a skin sensitizer.

### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

#### **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.

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

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

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Test Type: Chromosome aberration test in vitro  
Metabolic activation: Metabolic activation  
Result: positive  
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Result: negative

### Carcinogenicity

Not classified based on available information.

### Components:

#### fluroxypyr-meptyl (ISO):

Species : Rat  
Method : OECD Test Guideline 451  
Result : negative

Species : Mouse  
Method : OECD Test Guideline 453  
Result : negative

#### thifensulfuron-methyl (ISO):

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

#### metsulfuron-methyl (ISO):

Species : Rat, male and female  
Exposure time : 104 weeks  
NOAEL : 500 ppm  
Result : negative

Species : Mouse, male and female  
Exposure time : 18 month(s)  
NOAEL : 5,000 ppm  
Result : negative

### Reproductive toxicity

Not classified based on available information.

### Components:

#### fluroxypyr-meptyl (ISO):

Effects on fertility : Method: OECD Test Guideline 416  
Result: negative

Effects on foetal development : Method: OECD Test Guideline 414  
Result: negative

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### thifensulfuron-methyl (ISO):

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

### metsulfuron-methyl (ISO):

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rabbit, female  
Application Route: Ingestion  
Symptoms: Maternal effects  
Result: negative

Test Type: Embryo-foetal development  
Species: Rat, female  
Application Route: Ingestion  
Symptoms: Maternal effects  
Result: negative

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Components:

### fluroxypyr-meptyl (ISO):

Species : Rat  
NOAEL : 80 mg/kg  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
Target Organs : Kidney

### thifensulfuron-methyl (ISO):

Species : Rat  
LOAEL : ca.200 mg/kg  
Exposure time : 90 d  
Target Organs : No specific target organs noted  
Symptoms : Reduced body weight

### metsulfuron-methyl (ISO):

Species : Rat, male and female  
NOEL : 1000 ppm  
Application Route : Oral - feed  
Exposure time : 90 days

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Symptoms : Reduced body weight

### Aspiration toxicity

Not classified based on available information.

## 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.

### Neurological effects

#### Components:

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

No neurotoxicity observed in animal studies

### Further information

#### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 17.5 mg/l  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7.8 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 221

ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.0369 mg/l  
Exposure time: 7 d  
Method: OECD Test Guideline 221



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### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

### Components:

#### **fluroxypyr-meptyl (ISO):**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 0.63 mg/l  
Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.183 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.41 mg/l  
Exposure time: 72 h

LC50 (Scenedesmus subspicatus): > 0.5 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0.2 mg/l  
Exposure time: 21 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.06 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : LC50: > 1,000 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: > 2,000 mg/kg  
Species: Anas platyrhynchos (Mallard duck)

LD50: > 2,000 mg/kg  
Species: Colinus virginianus (Bobwhite quail)

LD50: > 100 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)

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LD50: > 100 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)

### 12-Hydroxystearic acid, oligomers, reaction products with stearic acid:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Crustaceans): 1,614 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l  
Exposure time: 72 h

### thifensulfuron-methyl (ISO):

Toxicity to fish : LC50 (Salmo gairdneri): 100 mg/l  
Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): > 250 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 120 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (green algae): 0.0159 mg/l  
Exposure time: 72 h

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 1.4 mg/l  
Exposure time: 72 h

EC50 (Lemna minor (duckweed)): 1.3 µg/l

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 250 mg/l  
Exposure time: 28 d  
Species: Salmo gairdneri

NOEC: 10.6 mg/l  
Exposure time: 21 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to soil dwelling organisms : LC50: > 2,000 mg/kg  
Species: Eisenia fetida (earthworms)

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Toxicity to terrestrial organisms : LD50: > 2,510 mg/kg  
Species: *Anas platyrhynchos* (Mallard duck)

LD50: > 5,620 ppm  
Species: *Anas platyrhynchos* (Mallard duck)  
Remarks: Dietary

LD50: > 5,620 ppm  
Species: *Colinus virginianus* (Bobwhite quail)

LD50: > 7.1 µg/bee  
End point: Acute oral toxicity  
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.

### metsulfuron-methyl (ISO):

Toxicity to fish : LC50 (*Poecilia reticulata* (guppy)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 120 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

EC50 (*Daphnia magna* (Water flea)): 43.1 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (*Anabaena flos-aquae* (cyanobacterium)): 65.7 µg/l  
Exposure time: 96 h  
Method: OPPTS 850.5400  
GLP: yes

NOEC (*Anabaena flos-aquae* (cyanobacterium)): 45 µg/l  
Exposure time: 96 h  
Method: OPPTS 850.5400  
GLP: yes

ErC50 (*Selenastrum capricornutum* (green algae)): 157 µg/l  
Exposure time: 72 h

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GLP: yes

NOEC (Selenastrum capricornutum (green algae)): 50 µg/l  
Exposure time: 72 h  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1,000

Toxicity to fish (Chronic toxicity) : NOEC: 68 mg/l  
Exposure time: 21 d  
Species: Oncorhynchus mykiss (rainbow trout)

NOEC: 10 mg/l  
End point: reproduction  
Exposure time: 21 d  
Species: Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 229  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 3.13 mg/l  
End point: reproduction  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

NOEC: 0.5 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 1,000

Toxicity to soil dwelling organisms : NOEC: 6 mg/kg  
Exposure time: 56 d  
Species: Eisenia fetida (earthworms)

NOEC: 5.6 mg/kg  
End point: reproduction  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 222  
GLP: yes

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

Toxicity to terrestrial organisms : LD50: > 50 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)

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Method: OEPP/EPPO Test Guideline 170

LD50: > 50 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)  
Method: OEPP/EPPO Test Guideline 170

LD50: > 2,510 mg/kg  
Species: Anas platyrhynchos (Mallard duck)

NOEC: 1,000 mg/kg  
End point: Reproduction Test  
Species: Colinus virginianus

NOEC: 1,000 ppm  
End point: Reproduction Test  
Species: Anas platyrhynchos (Mallard duck)  
Method: OECD Test Guideline 206

### 12.2 Persistence and degradability

#### **Product:**

Biodegradability : Remarks: No data is available on the product itself.

#### **Components:**

##### **fluroxypyr-meptyl (ISO):**

Biodegradability : Remarks: Not readily biodegradable.

##### **12-Hydroxystearic acid, oligomers, reaction products with stearic acid:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 57 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

##### **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.

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

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

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### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data is available on the product itself.

#### Components:

##### **fluroxypyr-meptyl (ISO):**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 4.5 (25 °C)

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

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

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

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Exposure time: 28 d  
Bioconcentration factor (BCF): < 1  
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : Pow: 0.018 (25 °C)  
log Pow: -1.7 (25 °C)  
pH: 7

### 12.4 Mobility in soil

#### Product:

Distribution among environmental compartments : Remarks: No data is available on the product itself.

#### Components:

##### **fluroxypyr-meptyl (ISO):**

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

##### **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 substance/mixture contains no components considered

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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.

### 12.7 Other adverse effects

No data available

## 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.  
Do not re-use empty containers.  
Packaging that is not properly emptied must be disposed of as the unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

### 14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Fluroxypyr-meptyl, Thifensulfuron-methyl, Metsulfuron-methyl)

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<b>ADR</b>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluroxypyr-meptyl, Thifensulfuron-methyl, Metsulfuron-methyl)
<b>RID</b>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluroxypyr-meptyl, Thifensulfuron-methyl, Metsulfuron-methyl)
<b>IMDG</b>	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluroxypyr-meptyl, Thifensulfuron-methyl, Metsulfuron-methyl)
<b>IATA</b>	:	Environmentally hazardous substance, liquid, n.o.s. (Fluroxypyr-meptyl, Thifensulfuron-methyl, Metsulfuron-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

<b>ADN</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
<b>ADR</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
Tunnel restriction code	: (-)
<b>RID</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
<b>IMDG</b>	
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
<b>IATA (Cargo)</b>	



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Packing instruction (cargo aircraft)	:	964
Packing instruction (LQ)	:	Y964
Packing group	:	III
Labels	:	Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft)	:	964
Packing instruction (LQ)	:	Y964
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)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable

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

Regulation (EU) 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 (Annex XIV) : Not applicable

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

### 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.  MEM TECHNICAL (MANATI) METHYL 3-[[[(4-METHOXY-6-METHYL-1,3,5-TRIAZIN-2-YL)CARBAMOYL]SULFAMOYL}THIOPHENE-2-CARBOXYLATE fluroxypyr-meptyl (ISO) Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine
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

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TECI : Not in compliance with the inventory

### 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.
H319	: Causes serious eye irritation.
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

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; IECS - 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 Restriction 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

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- Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Sens. 1B	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Based on product data or assessment  
Calculation method  
Calculation method

### Disclaimer

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