

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## 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

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

Use of the Sub- : Herbicide  
stance/Mixture

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

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

##### Supplier Address

FMC Agro Limited  
Rectors Lane, Pentre  
Flintshire  
CH5 2DH  
United Kingdom

Telephone: + 44 1244 537370  
E-mail address: SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
England and Wales: 44-870-8200418 (CHEMTREC)

Medical emergency:  
England and Wales: 111  
Scotland: 84 54 24 2424

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK  
SI 2019/720, and UK SI 2020/1567)**

Skin sensitisation, Sub-category 1B

H317: May cause an allergic skin reaction.

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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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

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.

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.

P362 + P364 Take off contaminated clothing and wash it before reuse.

**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.

## 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 aquatic toxicity): 1,000 M-Factor (Chronic aquatic toxicity): 1,000	>= 0.25 - < 1

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For explanation of abbreviations see section 16.

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### 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.<br>Immediate medical attention is required in case of ingestion. |
|-----------|---|-----------------------------------------------------------------------------------------|

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### 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.

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## 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 ap-  
plication 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 : Normal measures for preventive fire protection.  
fire and explosion

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 contam-  
inated clothing and gloves, including the inside, before re-use.

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### 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 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. |
|-----------------|---|-----------------------------------------------------------------------------------------------------------------|

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

- |                             |   |                                                                                                                                       |
|-----------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection         | : | Eye wash bottle with pure water<br>Tightly fitting safety goggles                                                                     |
| 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.                             |
| Skin and body protection    | : | Impervious clothing<br>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.                         |

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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.

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
pH	: 4.5 (20 °C)
	Concentration: 10 g/l 1 %
	Method: CIPAC MT 75.3
Melting point/freezing point	: not determined
Boiling point/boiling range	: Decomposition
Flash point	: 172 °C
	Method: Regulation (EC) No. 440/2008, Annex, A.9
Evaporation rate	: Not available for this mixture.
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Vapour pressure	: Not available for this mixture.
Relative vapour density	: not determined
Relative density	: 0.9893 (20 °C) Method: Regulation (EC) No. 440/2008, Annex, A.3
Density	: 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.
Auto-ignition temperature	: No data available
Decomposition temperature	: not determined
Viscosity	
Viscosity, dynamic	: 520.7 mPa.s (23.7 °C)
	Method: CIPAC MT 192



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Viscosity, kinematic	: 100 rpm
Explosive properties	: not determined
Oxidizing properties	: Not explosive Method: Regulation (EC) No. 440/2008, Annex, A.14
	: The product is not oxidizing.
	Method: Regulation (EC) No. 440/2008, Annex, A.21

### 9.2 Other information

Flammability (liquids)	: ignitable, Does not sustain combustion.
Particle size	: Not applicable
Particle Size Distribution	: Not applicable
Self-ignition	: 350 °C Method: EEC A.15

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## 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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### 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.
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### 10.5 Incompatible materials

Materials to avoid	: Avoid strong acids, bases, and oxidizers
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### 10.6 Hazardous decomposition products

Stable under recommended storage conditions.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

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### **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 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, male and female): > 1.16 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: Highest attainable concentration.
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
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#### **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):**

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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

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:**

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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  
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

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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 sensitizer, sub-category 1B.
Method	:	OECD Test Guideline 429
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.

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

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

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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
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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.
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##### **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.

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### 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
Symptoms	: Reduced body weight

### Aspiration toxicity

Not classified based on available information.

### 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
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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

### 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

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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)

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

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Toxicity to fish (Chronic toxicity)	: NOEC: 250 mg/l Exposure time: 28 d Species: <i>Salmo gairdneri</i>  NOEC: 10.6 mg/l Exposure time: 21 d Species: <i>Oncorhynchus mykiss</i> (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 100 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea)
M-Factor (Chronic aquatic toxicity)	: 100
Toxicity to soil dwelling organisms	: LC50: > 2,000 mg/kg Species: <i>Eisenia fetida</i> (earthworms)
Toxicity to terrestrial organisms	: LD50: > 2,510 mg/kg Species: <i>Anas platyrhynchos</i> (Mallard duck)  LD50: > 5,620 ppm Species: <i>Anas platyrhynchos</i> (Mallard duck) Remarks: Dietary  LD50: > 5,620 ppm Species: <i>Colinus virginianus</i> (Bobwhite quail)  LD50: > 7.1 µg/bee End point: Acute oral toxicity Species: <i>Apis mellifera</i> (bees)  LD50: > 100 µg/bee End point: Acute contact toxicity Species: <i>Apis mellifera</i> (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 ( <i>Poecilia reticulata</i> (guppy)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 ( <i>Daphnia magna</i> (Water flea)): > 120 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202

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		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 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

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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)  
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.

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### 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.

## 12.3 Bioaccumulative potential

### Product:

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

### Components:

#### fluroxypyr-meptyl (ISO):

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 26  
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

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### 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 : Koc: 6200 - 43000  
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 :

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

Distribution among environmental compartments : Remarks: Under normal conditions the substance/mixture is mobile in soil.

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : 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 Other adverse effects

#### Product:

Endocrine disrupting potential : 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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## 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.

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Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Triple rinse containers.  
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

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

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 9	
ADR	: 9	



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<b>RID</b>	:	9
<b>IMDG</b>	:	9
<b>IATA</b>	:	9

### 14.4 Packing group

#### ADN

Packing group	:	III
Classification Code	:	M6
Hazard Identification Number	:	90
Labels	:	9

#### ADR

Packing group	:	III
Classification Code	:	M6
Hazard Identification Number	:	90
Labels	:	9
Tunnel restriction code	:	(-)

#### RID

Packing group	:	III
Classification Code	:	M6
Hazard Identification Number	:	90
Labels	:	9

#### IMDG

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

#### IATA (Cargo)

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
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#### ADR

Environmentally hazardous	:	yes
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#### RID

Environmentally hazardous	:	yes
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#### IMDG

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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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	: Conditions of restriction for the following entries should be considered: Number on list 3 Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine (Number on list 3) methanol (Number on list 69, 3)
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UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	: Not applicable
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The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	: Not applicable
-----------------------------------------------------------------------------------------------------------------	------------------

Regulation (EU) No 2024/590 on substances that deplete the ozone layer	: Not applicable
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UK REACH List of substances subject to authorisation (Annex XIV)	: Not applicable
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GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	: Not applicable
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Control of Major Accident Hazards Regulations 2015 (COMAH)	E1 ENVIRONMENTAL HAZARDS
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Volatile organic compounds	: Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
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Volatile organic compounds (VOC) content: 57.65 %

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

### 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.  METHYL 2-[[[4-METHOXY-6-METHYL-1,3,5-TRIAZIN-2-YL)CARBAMOYL]SULFAMOYL]BENZOATE 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
TECI	: Not in compliance with the inventory

### 15.2 Chemical safety assessment

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

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### 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; AIIIC - 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 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; 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

#### Further information

##### Classification of the mixture:

Skin Sens. 1B                      H317

##### Classification procedure:

Based on product data or assessment

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Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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