

# SAFETY DATA SHEET

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



## SAFARI® DUOACTIVE

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	29.09.2023	50000095	Date of first issue: 16.10.2018

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

#### 1.1 Product identifier

**Product name** SAFARI® DUOACTIVE

**Other means of identification**

**Product code** 50000095

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

Use of the Sub-  
stance/Mixture : Herbicide

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)**

Carcinogenicity, Category 2

H351: Suspected of causing cancer.

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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 :

H351 Suspected of causing cancer.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

P201 Obtain special instructions before use.

#### **Prevention:**

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### **Response:**

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P391 Collect spillage.

#### **Disposal:**

P501 Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Hazardous components which must be listed on the label:

lenacil (ISO)  
triflurosulfuron-methyl

#### **Additional Labelling**

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.

### 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.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
lenacil (ISO)	2164-08-1 218-499-0 613-320-00-6	Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 50 - < 72
triflurosulfuron-methyl	126535-15-7 607-714-00-7	Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 10	>= 2.5 - < 10
Lignosulfonic acid, sodium salt, sul- fomethylated	68512-34-5	Eye Irrit. 2; H319	>= 1 - < 10
sodium diisopropyl naphthalenesul- phonate	1322-93-6 215-343-3	Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 1 - < 2.5
Substances with a workplace exposure limit :			
kaolin	1332-58-7 310-194-1		>= 1 - < 10

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.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

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|-------------------------|--|
| If inhaled              | : Remove to fresh air.<br>If unconscious, place in recovery position and seek medical advice.<br>Consult a physician after significant exposure.   |
| 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 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>Take victim immediately to hospital.<br>Do NOT induce vomiting. |

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

- |       |                                |
|-------|--------------------------------|
| Risks | : Suspected of causing cancer. |
|-------|--------------------------------|

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

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Dry chemical, CO <sub>2</sub> , water spray or regular foam. |
| Unsuitable extinguishing media | : High volume water jet  |

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

- |                                       |   |
|---------------------------------------|---|
| Specific hazards during fire-fighting | : Do not allow run-off from fire fighting to enter drains or water courses.   |
| Hazardous combustion products         | : Thermal decomposition can lead to release of irritating gases and vapours.<br>Nitrogen oxides (NO <sub>x</sub> )<br>Hydrogen fluoride<br>Sulphur oxides<br>Carbon oxides<br>Fluorinated compounds |

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### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- 

## SECTION 6: Accidental release measures

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

- Personal precautions : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
If it can be safely done, stop the leak.  
Keep people away from and upwind of spill/leak.  
Remove all sources of ignition.  
Immediately evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.

### 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 : Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

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

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the ap-

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plication area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

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

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

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. 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. A warning sign reading "POISON" is recommended. 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

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
kaolin	1332-58-7	TWA (Respirable dust)	2 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable dust)	0.1 mg/m <sup>3</sup>	2004/37/EC
Further information	Carcinogens or mutagens			

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### 8.2 Exposure controls

#### Personal protective equipment

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	:	solid
Form	:	granular
Colour	:	brown
Odour	:	slight
pH	:	8.3 (25 °C) Concentration: 1 %
Relative vapour density	:	not determined

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Solubility(ies)  
Water solubility : dispersible

### 9.2 Other information

Particle size : No data available

Particle Size Distribution : No data available

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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.

Dust may form explosive mixture in air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

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

### 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.

#### Product:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Remarks: Information source: Internal study report  
(Data on the product itself)

Acute inhalation toxicity : LC50 (Rat): > 5.13 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403



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

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

### Components:

#### **lenacil (ISO):**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 423  
Remarks: Information source: Internal study report

Acute inhalation toxicity : LC50 (Rat): > 5.12 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: Information source: Internal study report

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Information source: Internal study report

#### **triflurosulfuron-methyl:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

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

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

#### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Acute oral toxicity : LD50 (Rat, female): > 10 g/kg

#### **sodium diisopropylnaphthalenesulphonate:**

Acute oral toxicity : LD50 (Rat, female): > 300 - 2,000 mg/kg  
Method: OECD Test Guideline 423

#### **kaolin:**

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

### Skin corrosion/irritation

Not classified based on available information.

#### Product:

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

#### Components:

##### **Ienacil (ISO):**

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Remarks	:	Information source: Internal study report

##### **triflusulfuron-methyl:**

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

##### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Result	:	No skin irritation
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##### **sodium diisopropyl-naphthalenesulphonate:**

Species	:	reconstructed human epidermis (RhE)
Method	:	OECD Test Guideline 431
Result	:	Corrosive after 4 hours or less of exposure

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### kaolin:

Method	: OECD Test Guideline 404
Result	: No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

### Product:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: No eye irritation
GLP	: yes
Remarks	: Information source: Internal study report (Data on the product itself)

### Components:

#### lenacil (ISO):

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

#### triflurosulfuron-methyl:

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

#### Lignosulfonic acid, sodium salt, sulfomethylated:

Result	: Eye irritation
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#### sodium diisopropylnaphthalenesulphonate:

Species	: Bovine cornea
Method	: OECD Test Guideline 437
Result	: Irreversible effects on the eye

### kaolin:

Method	: OECD Test Guideline 405
Result	: No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

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### Respiratory sensitisation

Not classified based on available information.

#### Product:

Test Type	: Local lymph node test
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Did not cause sensitisation on laboratory animals.
GLP	: yes
Remarks	: Information source: Internal study report (Data on the product itself)

#### Components:

##### **Ienacil (ISO):**

Exposure routes	: Skin contact
Species	: Guinea pig
Assessment	: Not a skin sensitizer.
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitisation.
Remarks	: Information source: Internal study report

##### **triflusulfuron-methyl:**

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

##### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Species	: Guinea pig
Result	: Not a skin sensitizer.

##### **sodium diisopropyl-naphthalenesulphonate:**

Test Type	: Direct Peptide Reactivity Assay (DPRA)
Method	: OECD Test Guideline 442C
Result	: Does not cause skin sensitisation.

##### **kaolin:**

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

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### **Ienacil (ISO):**

Germ cell mutagenicity- Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Animal testing did not show any mutagenic effects.
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### **triflusulfuron-methyl:**

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

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

### **Lignosulfonic acid, sodium salt, sulfomethylated:**

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

Genotoxicity in vivo : Remarks: No data available

### **sodium diisopropylnaphthalenesulphonate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Remarks: No data available

### **kaolin:**

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

Genotoxicity in vivo : Remarks: No data available

### **Carcinogenicity**

Suspected of causing cancer.

### **Components:**

#### **Ienacil (ISO):**

Species : Rat  
Method : OECD Test Guideline 453  
Symptoms : mammary tumors

Species : Mouse  
Method : OECD Test Guideline 451  
Symptoms : Lung alveolar tumour, Hepatocellular adenoma

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

### **triflusulfuron-methyl:**

Species : Rat, male

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Dose	:	> 30 mg/kg/ bw/day
Method	:	OECD Test Guideline 453
Symptoms	:	Leydig-cell adenoma

Carcinogenicity - Assessment	:	The observed tumors do not appear to be relevant for men.
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### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Remarks	:	No data available
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### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **lenacil (ISO):**

Reproductive toxicity - Assessment	:	Animal testing did not show any effects on fertility. Animal testing did not show any effects on foetal development.
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### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Effects on fertility	:	Remarks: No data available
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Effects on foetal development	:	Remarks: No data available
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#### **kaolin:**

Effects on fertility	:	Remarks: No data available
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Effects on foetal development	:	Remarks: No data available
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### **STOT - single exposure**

Not classified based on available information.

### **Product:**

Assessment	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
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### **Components:**

#### **triflusulfuron-methyl:**

Assessment	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
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### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Remarks	:	No data available
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### kaolin:

Remarks : No significant adverse effects were reported

### STOT - repeated exposure

Not classified based on available information.

### Product:

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

### Components:

#### triflusulfuron-methyl:

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

#### Lignosulfonic acid, sodium salt, sulfomethylated:

Remarks : No data available

### kaolin:

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

### Repeated dose toxicity

### Components:

#### lenacil (ISO):

Species : Rat  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
Symptoms : Liver effects

Species : Mouse  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
Symptoms : increased liver weight

Species : Dog  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
Symptoms : Liver effects, Bladder effects

#### sodium diisopropylnaphthalenesulphonate:

Remarks : No data available

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### kaolin:

Remarks : No data available

### Aspiration toxicity

Not classified based on available information.

### Components:

#### lenacil (ISO):

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

#### triflusulfuron-methyl:

No aspiration toxicity classification

### Further information

#### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 42 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Information source: Internal study report  
(Data on the product itself)

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.0179 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Information source: Internal study report  
(Data on the product itself)

ErC50 (Lemna gibba (duckweed)): 0.0330 mg/l  
Exposure time: 7 d  
Method: OECD Test Guideline 221  
GLP: yes  
Remarks: Information source: Internal study report  
(Data on the product itself)



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### Components:

#### **Ienacil (ISO):**

- |  |   |  |
|--|---|--|
| Toxicity to fish   | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 2 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203<br>Remarks: Information source: Internal study report   |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): > 8.4 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202<br>Remarks: Information source: Internal study report  |
| Toxicity to algae/aquatic plants                                       | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.016 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 201<br>Remarks: Information source: Internal study report<br><br>ErC50 (Navicula pelliculosa (Diatom)): 0.096 mg/l<br>Exposure time: 72 h<br><br>ErC50 (Lemna gibba (gibbous duckweed)): 0.029 mg/l<br>Exposure time: 7 d<br>Method: OECD Test Guideline 221<br>Remarks: Information source: Internal study report<br><br>NOEC (Lemna gibba (duckweed)): 0.0088 mg/l<br>Exposure time: 7 d |
| M-Factor (Acute aquatic toxicity)                                      | : | 10   |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC: 0.16 mg/l<br>Exposure time: 90 d<br>Species: Oncorhynchus mykiss (rainbow trout)<br>Method: OECD Test Guideline 210<br>Remarks: Information source: Internal study report  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0.48 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Remarks: Information source: Internal study report  |
| M-Factor (Chronic aquatic toxicity)                                    | : | 10   |
| Toxicity to soil dwelling organisms                                    | : | LC50: > 1,000 mg/kg<br>Exposure time: 14 d<br>Species: Eisenia fetida (earthworms)<br>Method: OECD Test Guideline 207  |

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Remarks: Information source: Internal study report

Toxicity to terrestrial organisms : LD50: 25 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)  
Method: US EPA Test Guideline OPP 141-1  
Remarks: Information source: Internal study report

LD50: > 2,000 mg/kg  
Species: Anas platyrhynchos (Mallard duck)  
Method: US EPA Test Guideline OPP 71-1  
Remarks: Information source: Internal study report

LC50: > 5,000 mg/kg  
Exposure time: 5 d  
Species: Colinus virginianus (Bobwhite quail)  
Method: US EPA Test Guideline OPP 71-2  
Remarks: Information source: Internal study report

### triflusulfuron-methyl:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 730 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 884 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.5 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

ErC50 (Lemna gibba (gibbous duckweed)): 0.0035 mg/l  
Exposure time: 14 h  
Method: ASTM E 1415-91

EC50 (green algae): 0.62 mg/l  
Exposure time: 98 h

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 210 mg/l  
Exposure time: 21 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 11 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

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M-Factor (Chronic aquatic toxicity) : 10

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

Toxicity to terrestrial organisms : LC50: > 2,250 mg/kg  
Species: Colinus virginianus (Bobwhite quail)  
Method: EPA OPP 71-1

LC50: > 5,620 mg/kg  
Species: Anas platyrhynchos (Mallard duck)  
Method: EPA OPP 71-1

LD50: > 25 µg/bee  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)

### Lignosulfonic acid, sodium salt, sulfomethylated:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 615 mg/l  
Exposure time: 96 h

### sodium diisopropylnaphthalenesulphonate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 72 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 10 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

### kaolin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

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

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l

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Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms :  
Remarks: No data available

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

### 12.2 Persistence and degradability

#### **Product:**

Biodegradability : Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

#### **Components:**

##### **lenacil (ISO):**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Substance/product is moderately persistent in the environment.

##### **triflurosulfuron-methyl:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Remarks: Hydrolyses readily.

##### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: < 5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

##### **sodium diisopropylnaphthalenesulphonate:**

Biodegradability : Inoculum: activated sludge, non-adapted  
Result: Not readily biodegradable.  
Biodegradation: 2 %  
Exposure time: 21 d  
Method: OECD Test Guideline 301D

##### **kaolin:**

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

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### 12.3 Bioaccumulative potential

#### **Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.  
Estimation based on data obtained on active ingredient.

#### **Components:**

##### **lenacil (ISO):**

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: 1.70 (25 °C)

##### **triflusulfuron-methyl:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 0.96 (25 °C)  
pH: 7

log Pow: 2.3 (25 °C)  
pH: 5

log Pow: -0.07 (25 °C)  
pH: 9

##### **Lignosulfonic acid, sodium salt, sulfomethylated:**

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: -3.45

##### **sodium diisopropylnaphthalenesulphonate:**

Partition coefficient: n-octanol/water : log Pow: > 2.6 (20 °C)

##### **kaolin:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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

### 12.4 Mobility in soil

#### **Product:**

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

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### Components:

#### **lenacil (ISO):**

Distribution among environmental compartments : Remarks: Moderately mobile in soils

#### **triflurosulfuron-methyl:**

Distribution among environmental compartments : Remarks: Moderately mobile in soil at low pH.  
Very mobile at high pH.

#### **kaolin:**

Distribution among environmental compartments : Remarks: Low mobility 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.

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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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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.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

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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 han-  
dling site for recycling or disposal.

### SECTION 14: Transport information

#### 14.1 UN number

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

#### 14.2 UN proper shipping name

ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lenacil, Triflurosulfuron-methyl)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lenacil, Triflurosulfuron-methyl)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lenacil, Triflurosulfuron-methyl)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lenacil, Triflurosulfuron-methyl)
IATA	:	Environmentally hazardous substance, solid, n.o.s. (Lenacil, Triflurosulfuron-methyl)

#### 14.3 Transport hazard class(es)

ADN	:	9
ADR	:	9
RID	:	9
IMDG	:	9
IATA	:	9

#### 14.4 Packing group

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

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### ADR

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

### RID

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

### IMDG

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

### IATA (Cargo)

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

### IATA (Passenger)

Packing instruction (passenger aircraft)	: 956
Packing instruction (LQ)	: Y956
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

Marine pollutant	: yes
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### IATA (Passenger)

Environmentally hazardous	: yes
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### 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.



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### 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

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

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

#### The components of this product are reported in the following inventories:

TCSI : On the inventory, or 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-(DIMETHYLAMINO)-6-(2,2,2-TRIFLUOROETHOXY)-1,3,5-TRIAZIN-2-YL]CARBAMOYL)SULFAMOYL-3-METHYLBENZOATE  
lenacil (ISO)

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).

## SECTION 16: Other information

### Full text of H-Statements

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H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H351	: Suspected of causing cancer.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Corr.	: Skin corrosion
2004/37/EC	: Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
2004/37/EC / TWA	: Long term exposure limit
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)

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

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- United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Classification of the mixture:

Carc. 2	H351
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

### Classification procedure:

Calculation method
Based on product data or assessment
Calculation method

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