

# SAFETY DATA SHEET

According to UK REACH and COSHH Regulations, and their amendments



## ProClova™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	06.02.2025	800080101129	Date of first issue: 06.02.2025

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Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of Great Britain and may not meet the regulatory requirements in other countries.

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

### 1.1 Product identifier

Trade name : ProClova™

Unique Formula Identifier (UFI) : W7AA-7077-A00R-EVF9

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

Use of the Substance/Mixture : End use herbicide product

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

#### COMPANY IDENTIFICATION

##### Manufacturer/importer

Corteva Agriscience UK Ltd  
Melbourn Science Park - Cambridge Road - Unit H4, Building H  
Melbourn Cambridgeshire - SG8 6HB  
UNITED KINGDOM

Customer Information Number : +44 8006 89 8899  
E-mail address : SDS@corteva.com

### 1.4 Emergency telephone number

+44 161 88 41235

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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, Category 1B	H317: May cause an allergic skin reaction.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.

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Category 1  
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.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust or spray  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: 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.

### Additional Labelling

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

### 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)
Amidosulfuron	120923-37-7 407-380-0 616-209-00-0	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	37.11
Florpyrauxifen-benzyl	1390661-72-9	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1,000 M-Factor (Chronic aquatic toxicity): 10,000	7.76
Sodium lignosulfonate	8061-51-6	Eye Irrit. 2; H319	>= 3 - < 10
Fatty acid chlorides, C18 unsatd., reaction products with sodium N- methyltaurinate	Not Assigned 939-538-4 01-2119976349-20, 01-2119976349-20- 0003, 01- 2119976349-20- 0004, 01- 2119976349-20- 0005, 01- 2119976349-20- 0006, 01- 2119976349-20- 0007	Eye Irrit. 2; H319	>= 1 - < 3
Anatase	1317-70-0 215-280-1 022-006-00-2	Carc. 2; H351	>= 0.3 - < 1
Substances with a workplace exposure limit :			

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Kaolin	1332-58-7 310-194-1		>= 30 - < 40
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For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : Move person to fresh air; if effects occur, consult a physician.
- In case of skin contact : Wash off with plenty of water.
- In case of eye contact : Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
- If swallowed : No emergency medical treatment necessary.

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

None known.

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

- Treatment : No specific antidote.  
Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam

- Unsuitable extinguishing media : None known.

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

- Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Nitrogen oxides (NOx)  
Carbon oxides

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### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.
- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.  
Use water spray to cool unopened containers.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 

## SECTION 6: Accidental release measures

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

- Personal precautions : Avoid dust formation.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

### 6.2 Environmental precautions

- Environmental precautions : Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

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

- Methods for cleaning up : Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.  
Pick up and arrange disposal without creating dust.  
Recovered material should be stored in a vented container.  
The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-pressurization of the container.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.  
Sweep up or vacuum up spillage and collect in suitable container for disposal.  
See Section 13, Disposal Considerations, for additional information.

### 6.4 Reference to other sections

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.

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Smoking, eating and drinking should be prohibited in the application area.  
Take care to prevent spills, waste and minimize release to the environment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

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

Requirements for storage areas and containers : Store in a closed container. Keep in properly labelled containers. Store in accordance with the particular national regulations.

Advice on common storage : Strong oxidizing agents

Packaging material : Unsuitable material: None known.

### 7.3 Specific end use(s)

Specific use(s) : Plant protection products subject to Regulation (EC) No 1107/2009.

## 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	Long-term exposure limit (8-hour TWA reference period) (Respirable dust)	2 mg/m <sup>3</sup>	GB EH40
		Long term exposure limit (Respirable dust)	0.1 mg/m <sup>3</sup>	2004/37/EC
Further information: Carcinogens or mutagens				

### 8.2 Exposure controls

#### Engineering measures

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.  
Local exhaust ventilation may be necessary for some operations.

#### Personal protective equipment

Eye/face protection : Use safety glasses (with side shields).  
Hand protection

Remarks : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Styrene/butadiene rubber.

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Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Skin and body protection : Wear clean, body-covering clothing.

Respiratory protection : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: Granules.
Colour	: Tan
Odour	: Mild
Odour Threshold	: No data available
pH	: 6.16 (20.9 °C)
Boiling point/boiling range	: Not applicable
Flash point	: Method: closed cup Not applicable
Evaporation rate	: No data available
Upper explosion limit / Upper flammability limit	: Not applicable
Lower explosion limit / Lower flammability limit	: Not applicable
Relative vapour density	: No data available
Relative density	: No data available
Density	: No data available
Bulk density	: 1.0 - 1.5 kg/m <sup>3</sup> (20.3 °C)

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Solubility(ies)  
Water solubility : No data available  
Partition coefficient: n-octanol/water : No data available  
Auto-ignition temperature : No data available

Viscosity  
Viscosity, dynamic : No data available  
Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

### 9.2 Other information

Self-ignition : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.  
Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
No hazards to be specially mentioned.  
None known.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong bases

### 10.6 Hazardous decomposition products

Carbon oxides  
Nitrogen oxides (NOx)



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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

##### Components:

##### **Amidosulfuron:**

- Acute oral toxicity : LD50 (Mouse, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): > 1.8 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: Maximum achievable concentration.
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

##### **Florpyrauxifen-benzyl:**

- Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg  
Method: OECD Test Guideline 423  
Symptoms: No deaths occurred at this concentration.
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.23 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Symptoms: No deaths occurred at this concentration.

##### **Sodium lignosulfonate:**

- Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg
- Acute inhalation toxicity : LC50 (Rat): 0.48 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

##### **Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:**

- Acute oral toxicity : LD50: > 4,000 mg/kg

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Method: OECD Test Guideline 401  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50: > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute dermal toxicity

### **Anatase:**

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): > 6.82 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 10,000 mg/kg

### **Kaolin:**

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

### **Skin corrosion/irritation**

#### **Components:**

##### **Amidosulfuron:**

Species : Rabbit  
Result : No skin irritation

##### **Florpyrauxifen-benzyl:**

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

##### **Anatase:**

Result : No skin irritation

##### **Kaolin:**

Species : Rabbit  
Result : No skin irritation

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### Serious eye damage/eye irritation

#### Components:

##### **Amidosulfuron:**

Species : Rabbit  
Result : No eye irritation

##### **Florpyrauxifen-benzyl:**

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

##### **Sodium lignosulfonate:**

Result : Eye irritation

##### **Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:**

Result : Mild eye irritation

##### **Anatase:**

Result : No eye irritation

##### **Kaolin:**

Species : Rabbit  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Components:

##### **Amidosulfuron:**

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

##### **Florpyrauxifen-benzyl:**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitizer, sub-category 1B.

##### **Sodium lignosulfonate:**

Species : Guinea pig  
Result : Does not cause skin sensitisation.

##### **Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:**

Species : Mouse

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Result : Does not cause skin sensitisation.

### **Anatase:**

Species : Mouse  
Result : Does not cause skin sensitisation.

Species : Guinea pig  
Result : Does not cause skin sensitisation.

### **Germ cell mutagenicity**

#### **Components:**

##### **Amidosulfuron:**

Germ cell mutagenicity- Assessment : In vitro genetic toxicity studies were negative., In vivo tests did not show mutagenic effects

##### **Florpyrauxifen-benzyl:**

Germ cell mutagenicity- Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

##### **Sodium lignosulfonate:**

Germ cell mutagenicity- Assessment : In vitro genetic toxicity studies were negative.

##### **Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:**

Germ cell mutagenicity- Assessment : In vitro genetic toxicity studies were negative.

##### **Anatase:**

Germ cell mutagenicity- Assessment : In vitro genetic toxicity studies were negative in some cases and positive in other cases., Animal genetic toxicity studies were negative.

### **Carcinogenicity**

#### **Components:**

##### **Amidosulfuron:**

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

##### **Florpyrauxifen-benzyl:**

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

##### **Anatase:**

Carcinogenicity - Assessment : Lung fibrosis and tumors have been observed in rats exposed to titanium dioxide in two lifetime inhalation studies. Effects are believed to be due to overloading of the normal respiratory clearance mechanisms caused by the extreme study condi-

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tions. Workers exposed to titanium dioxide in the workplace have not shown an unusual incidence of chronic respiratory disease or lung cancer. Titanium dioxide was not carcinogenic in laboratory animals in lifetime feeding studies.

### **Kaolin:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

### **Reproductive toxicity**

#### **Components:**

#### **Amidosulfuron:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals.

#### **Florpyrauxifen-benzyl:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals.

#### **Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction.

### **STOT - single exposure**

#### **Product:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### **Components:**

#### **Amidosulfuron:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### **Florpyrauxifen-benzyl:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### **Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

#### **Anatase:**

Assessment : The substance or mixture is not classified as specific target

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organ toxicant, single exposure.

### **Kaolin:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

### **STOT - repeated exposure**

#### **Product:**

Assessment : Evaluation of available data suggests that this material is not an STOT-RE toxicant.

### **Repeated dose toxicity**

#### **Components:**

#### **Florpyrauxifen-benzyl:**

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

#### **Sodium lignosulfonate:**

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

#### **Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:**

Remarks : No relevant data found.

#### **Anatase:**

Remarks : Repeated excessive inhalation exposures to dusts may cause respiratory effects.  
In animals, effects have been reported on the following organs:  
Lung.

#### **Kaolin:**

Remarks : Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs.

### **Aspiration toxicity**

#### **Product:**

Based on physical properties, not likely to be an aspiration hazard.

#### **Components:**

#### **Amidosulfuron:**

Based on physical properties, not likely to be an aspiration hazard.

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### Florpyrauxifen-benzyl:

Based on physical properties, not likely to be an aspiration hazard.

### Sodium lignosulfonate:

Based on available information, aspiration hazard could not be determined.

### Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:

Based on physical properties, not likely to be an aspiration hazard.

### Anatase:

Based on physical properties, not likely to be an aspiration hazard.

### Kaolin:

Based on physical properties, not likely to be an aspiration hazard.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 77 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Information source: Internal study report

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 98.0 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Information source: Internal study report

EyC50 (Pseudokirchneriella subcapitata (green algae)): 12.6 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50 (Lemna gibba): 0.000011 mg/l  
10,8 µg/l  
End point: Growth rate  
Exposure time: 7 d  
Method: OECD Test Guideline 221  
Remarks: Information source: Internal study report

ErC50 (Myriophyllum spicatum): 0.0000007 mg/l  
0,697 µg/l  
End point: Biomass

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Exposure time: 14 d  
Remarks: Information source: Internal study report

NOEC (Lemna gibba): 0.0000627 mg/l  
End point: Growth rate  
Exposure time: 7 d  
Method: OECD Test Guideline 221

NOEC (Myriophyllum spicatum): 0.0000003 mg/l  
End point: Biomass  
Exposure time: 14 d

Toxicity to terrestrial organisms : oral LD50: > 213,4  
Exposure time: 48 h  
End point: mortality  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 213

contact LD50: > 200  
Exposure time: 48 h  
End point: mortality  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 214

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

### Components:

#### Amidosulfuron:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 320 mg/l  
Exposure time: 96 h  
Test Type: Static

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 55 mg/l  
Exposure time: 48 h  
Test Type: Static  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Lemna gibba): 0.0176 mg/l  
Exposure time: 14 d  
Test Type: Static

NOEC (Lemna gibba): < 0.0092 mg/l  
Exposure time: 7 d  
Test Type: Static

M-Factor (Acute aquatic toxicity) : 100



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M-Factor (Chronic aquatic toxicity) : 100

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

### Florpyrauxifen-benzyl:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.0490 mg/l  
Exposure time: 96 h  
Test Type: flow-through  
Method: OECD Test Guideline 203

LC50 (Pimephales promelas (fathead minnow)): > 0.0518 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203

LC50 (Cyprinodon variegatus (sheepshead minnow)): > 0.0403 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.0623 mg/l  
Exposure time: 48 h  
Test Type: Static renewal test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.0424 mg/l  
End point: Growth rate inhibition  
Exposure time: 72 h  
Method: OECD Test Guideline 201

ErC50 (Myriophyllum spicatum): 0.000154 mg/l  
Exposure time: 14 d  
Test Type: Growth inhibition

NOEC (Myriophyllum spicatum): 0.0000095 mg/l  
Exposure time: 14 d  
Test Type: Growth inhibition

ErC50 (Anabaena flos-aquae (cyanobacterium)): 0.0423 mg/l  
End point: Growth rate inhibition  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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

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

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Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0.0370 mg/l  
Exposure time: 33 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.0378 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 10,000

Toxicity to soil dwelling organisms : LC50: > 2,000 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : oral LD50: > 2250 mg/kg bodyweight.  
End point: mortality  
Species: Colinus virginianus (Bobwhite quail)

dietary LC50: > 5620 mg/kg diet.  
Species: Anas platyrhynchos (Mallard duck)

oral LD50: > 105.4 µg/bee  
Exposure time: 48 h  
End point: mortality  
Species: Apis mellifera (bees)

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

### Sodium lignosulfonate:

Toxicity to fish : Remarks: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

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

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202 or Equivalent  
Remarks: For this family of materials:

### Anatase:

Toxicity to fish : Remarks: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in

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the most sensitive species tested).

NOEC mortality (Leuciscus idus (Golden orfe)): > 1,000 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Test Type: static test

### 12.2 Persistence and degradability

#### Components:

##### **Amidosulfuron:**

Biodegradability : Result: Not biodegradable

##### **Florpyrauxifen-benzyl:**

Biodegradability : Test Type: CO2 evolution  
Result: Not biodegradable  
Biodegradation: 14.6 %  
Exposure time: 29 d  
Method: OECD Test Guideline 301B  
Remarks: 10-day Window: Fail

Stability in water : Test Type: Hydrolysis  
Degradation half life (DT50): 913 d (25 °C)  
pH: 4

Test Type: Hydrolysis  
Degradation half life (DT50): 111 d (25 °C)  
pH: 7

Test Type: Hydrolysis  
Degradation half life (DT50): 1.3 d (25 °C)  
pH: 9

##### **Sodium lignosulfonate:**

Biodegradability : Result: Not biodegradable  
Biodegradation: < 5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E  
Remarks: 10-day Window: Fail

Photodegradation : Rate constant: 1.089E-10 cm<sup>3</sup>/s  
Method: Estimated.

##### **Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:**

Biodegradability : Result: Readily biodegradable.  
Remarks: Material is readily biodegradable. Passes OECD

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test(s) for ready biodegradability.

Method: OECD Test Guideline 301D

### Anatase:

Biodegradability : Remarks: Biodegradation is not applicable.

## 12.3 Bioaccumulative potential

### Components:

#### Amidosulfuron:

Bioaccumulation : Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

#### Florpyrauxifen-benzyl:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Exposure time: 30 d  
Bioconcentration factor (BCF): 356

Partition coefficient: n-octanol/water : log Pow: 5.5 (20 °C)  
pH: 7  
Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

#### Sodium lignosulfonate:

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 3.2

Partition coefficient: n-octanol/water :  
log Pow: -3.45  
Method: Estimated.  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

#### Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

### Anatase:

Partition coefficient: n-octanol/water : Remarks: Partitioning from water to n-octanol is not applicable.

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### 12.4 Mobility in soil

#### Components:

##### **Amidosulfuron:**

Distribution among environmental compartments : Remarks: No relevant data found.

##### **Florpyrauxifen-benzyl:**

Distribution among environmental compartments : Koc: 15305 - 33500  
Remarks: Expected to be relatively immobile in soil (Koc > 5000).

##### **Sodium lignosulfonate:**

Distribution among environmental compartments : Koc: > 99999  
Method: Estimated.  
Remarks: Expected to be relatively immobile in soil (Koc > 5000).

##### **Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:**

Distribution among environmental compartments : Remarks: No relevant data found.

##### **Anatase:**

Distribution among environmental compartments : Remarks: No data available.

### 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.

#### Components:

##### **Amidosulfuron:**

Assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

##### **Florpyrauxifen-benzyl:**

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

##### **Sodium lignosulfonate:**

Assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

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### **Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:**

Assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

### **Anatase:**

Assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

### **Kaolin:**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## 12.6 Other adverse effects

### **Product:**

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

### **Components:**

#### **Amidosulfuron:**

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

#### **Florpyrauxifen-benzyl:**

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

#### **Sodium lignosulfonate:**

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

### **Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:**

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

### **Anatase:**

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

### **Kaolin:**

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

### SECTION 14: Transport information

#### 14.1 UN number

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

#### 14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Florpyrauxifen-benzyl, Amidosulfuron)  
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Florpyrauxifen-benzyl, Amidosulfuron)  
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Florpyrauxifen-benzyl, Amidosulfuron)  
IATA : Environmentally hazardous substance, solid, n.o.s.  
(Florpyrauxifen-benzyl, Amidosulfuron)

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADR	: 9	
RID	: 9	
IMDG	: 9	
IATA	: 9	

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### 14.4 Packing group

#### 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  
Remarks : Stowage category A

#### 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

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes(Florpyrauxifen-benzyl, Amidosulfuron)

### 14.6 Special precautions for user

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

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

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	E1	ENVIRONMENTAL HAZARDS

Registration Number : 21165

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

The mixture is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009. Refer to the label for exposure assessment information.

## SECTION 16: Other information

### Full text of H-Statements

H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H351	:	Suspected of causing cancer if inhaled.
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 Sens.	:	Skin sensitisation
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

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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)  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; 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; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN - United Nations.

### Further information

#### Classification of the mixture:

6.5 1B	H317
Eye Irrit. 2	H319
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Calculation method
Calculation method
Based on product data or assessment
Based on product data or assessment

Product code: GF-3730

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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