

**Trade name:** FIRESTORM**Product no.:** LC 117-118 C0245/UK**Current version :** 2.0.4, issued: 28.06.2023**Replaced version:** 2.0.3, issued: 22.06.2023**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****FIRESTORM****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Plant protection product

Herbicide

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

Certis Belchim B.V. (EU)

Stadsplateau 16

3521 AZ Utrecht - Nederland

Telephone no. 0031 (0)30 200 1200

Fax no. 0031 (0)30 310 0241

e-mail [info@certisbelchim.com](mailto:info@certisbelchim.com)**Advice on Safety Data Sheet**[www.certisbelchim.com](http://www.certisbelchim.com)**Identification of the supplier****Address**

Certis Belchim B.V. - United Kingdom

Suite 5, 3 Riverside, Granta Park - Great Abington

Cambridgeshire CB21 6AD

United Kingdom

Telephone no. 0044 (0) 1223 652500

Fax no. 0044 (0)1223 891210

e-mail [info.uk@certisbelchim.com](mailto:info.uk@certisbelchim.com) - [www.certisbelchim.co.uk](http://www.certisbelchim.co.uk)**1.4 Emergency telephone number**

Carechem 24 EU: +44 1235 239670

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Acute Tox. 4; H302

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

STOT RE 2; H373

**Classification information**

Classification and labelling are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements**

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GHS07



GHS08



GHS09

**Signal word**

Warning

**Hazardous component(s) to be indicated on label:**

Flufenacet (ISO)

**Hazard statement(s)**

H302

Harmful if swallowed.

H373

May cause damage to the nervous system through prolonged or repeated exposure if swallowed.

H410

Very toxic to aquatic life with long lasting effects.

**Hazard statements (EU)**

EUH208

Contains Flufenacet (ISO). May produce an allergic reaction.

EUH401

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

**Precautionary statement(s)**

P280

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

P308+P311

IF exposed or concerned: Call a POISON CENTER/doctor.

P391

Collect spillage.

P501

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

**2.3 Other hazards**

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Chemical characterization**

Flufenacet + Diflufenican 400 g/l + 200 g/l (SC)

**Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>Flufenacet (ISO)</b>			
	142459-58-3	Acute Tox. 4*; H302	>= 25.00 - < 50.00	wt%
	-	Aquatic Acute 1; H400		
	613-164-00-9	Aquatic Chronic 1; H410		
	-	Skin Sens. 1; H317		
		STOT RE 2*; H373**		
2	<b>diflufenican</b>			
	83164-33-4	Aquatic Chronic 3; H412	>= 5.00 - < 10.00	wt%
	-			
	616-032-00-9			
3	<b>glycerol</b>			

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56-81-5 200-289-5 - -	-	< 2.50	wt%
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Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\*, \*\*, \*\*\*, \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	-	M = 100	-

No	Route, target organ, concrete effect
1	H373 dermal; liver; -

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
1	383 mg/kg bodyweight		

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

No special measures necessary. In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

#### After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

#### After skin contact

When in contact with the skin, clean with soap and water.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

#### After ingestion

Call a doctor immediately and show label or packaging. Do not induce vomiting. Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person.

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

#### Symptoms

The absorption of this product into the body may lead to the formation of methaemoglobin that, in sufficient concentration, causes cyanosis

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

Treat symptomatically; In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. In case of methaemoglobinemia, oxygen and specific antidotes (methylene blue, toluidine blue) should be given.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam; Carbon dioxide; Extinguishing powder; Water spray jet

#### Unsuitable extinguishing media

High power water jet

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

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)

### 5.3 Advice for firefighters

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Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Wear protective clothing.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge uncontrolled into the subsoil/soil.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). When collected, handle material as described under the section heading "Disposal considerations".

### 6.4 Reference to other sections

Information regarding waste disposal, see section 13. Information regarding personal protective measures, see section 8. Information regarding safe handling, see section 7.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

No special measures necessary if stored and handled as prescribed. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

#### General protective and hygiene measures

Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Do not inhale vapours.

#### Advice on protection against fire and explosion

No special measures necessary.

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

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

#### Incompatible products

Do not store together with foodstuffs.

### 7.3 Specific end use(s)

#### Industry solution

Always read the label and product information before use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	glycerol	56-81-5	200-289-5
List of approved workplace exposure limits (WELs) / EH40			
	Glycerol mist		

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	WEL long-term (8-hr TWA reference period)	10	mg/m <sup>3</sup>
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**8.2 Exposure controls****Appropriate engineering controls**

No data available.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

**Eye / face protection**

Safety glasses (EN 166)

**Hand protection**

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

**Other**

Chemical-resistant work clothes. Rubber boots. (EN 13832-3/EN ISO 20345)

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>			
liquid			
<b>Form</b>			
Suspension			
<b>Colour</b>			
white to beige			
<b>Odour</b>			
characteristic			
<b>pH value</b>			
Value	4.0	-	6.5
Reference temperature		23	°C
Concentration		100	%
Source	Manufacturer		
<b>Boiling point / boiling range</b>			
Value	>	100	°C
Source	Manufacturer		
<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
No data available			
<b>Ignition temperature</b>			
No data available			
<b>Flammability</b>			

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No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	1.19	g/cm³	
Reference temperature	20	°C	
Source	Manufacturer		
Solubility in water			
Source	Manufacturer		
Comments	dispersible		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Flufenacet (ISO)	142459-58-3	-
log Pow		3.2	
Reference temperature		20	°C
Source		Manufacturer	
2	diflufenican	83164-33-4	-
log Pow		4.2	
Reference temperature		20	°C
Method		OECD 117	
Kinematic viscosity			
No data available			
Particle characteristics			
No data available			

**9.2 Other information**

<b>Other information</b>
No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

The product is stable under normal storage and handling conditions.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

None, if handled according to intended use.

**10.5 Incompatible materials**

None known.

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Combustion or thermal decomposition may generate toxic vapours.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Product Name		
1	FIRESTORM		
LD50	500	- 2000	mg/kg
Species	rat		
Source	Manufacturer		
Comments	Analogous to a product with a similar composition.		

Acute dermal toxicity			
No	Product Name		
1	FIRESTORM		
LD50	>	4000	mg/kg
Species	rabbit		
Source	Manufacturer		
Comments	Analogous to product with a similar composition.		

Acute inhalational toxicity			
No	Product Name		
1	FIRESTORM		
LC50	>	2.078	mg/m <sup>3</sup>
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Source	Manufacturer		
Comments	Analogous to product with a similar composition.		
Evaluation/classification	Based on available data, the classification criteria are not met (maximum achievable concentration, no mortality).		

Skin corrosion/irritation			
No	Product Name		
1	FIRESTORM		
Species	rabbit		
Source	Manufacturer		
Comments	Analogous to a product with a similar composition.		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Product Name		
1	FIRESTORM		
Species	rabbit		
Source	Manufacturer		
Comments	Analogous to product with a similar composition.		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Product Name		
1	FIRESTORM		
Route of exposure	Skin		
Species	mouse		
Source	Manufacturer		
Comments	Analogous to product with a similar composition.		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.

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<b>1</b>	<b>Flufenacet (ISO)</b>	<b>142459-58-3</b>	<b>-</b>
Source		Manufacturer	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>2</b>	<b>diflufenican</b>	<b>83164-33-4</b>	<b>-</b>
Source		Manufacturer	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>Reproduction toxicity</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Flufenacet (ISO)</b>	<b>142459-58-3</b>	<b>-</b>
Source		Manufacturer	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>2</b>	<b>diflufenican</b>	<b>83164-33-4</b>	<b>-</b>
Source		Manufacturer	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>Carcinogenicity</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Flufenacet (ISO)</b>	<b>142459-58-3</b>	<b>-</b>
Source		Manufacturer	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>2</b>	<b>diflufenican</b>	<b>83164-33-4</b>	<b>-</b>
Source		Manufacturer	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>STOT - single exposure</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>diflufenican</b>	<b>83164-33-4</b>	<b>-</b>
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>STOT - repeated exposure</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Flufenacet (ISO)</b>	<b>142459-58-3</b>	<b>-</b>
Source		Manufacturer	
Evaluation/classification		Based on available data, the classification criteria are met.	
<b>2</b>	<b>diflufenican</b>	<b>83164-33-4</b>	<b>-</b>
Source		Manufacturer	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>Aspiration hazard</b>			
No data available			

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

Assessment developmental toxicity: Flufenacet caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Flufenacet are related to maternal toxicity. Diflufenican did not cause developmental toxicity in rats and rabbits

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Product Name		
<b>1</b>	<b>FIRESTORM</b>		
LC50		54.9	mg/l
Duration of exposure		96	h
Species		Cyprinus carpio	
Source		Manufacturer	



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No data available

**Toxicity to Daphnia (acute)****No Product Name****1 FIRESTORM**

EC50	68.2	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Source	Manufacturer	

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)****No Product Name****1 FIRESTORM**

EC/LC50	0.00885	mg/l
Duration of exposure	72	h
Source	Manufacturer	

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

**12.2 Persistence and degradability****Biodegradability****No Substance name CAS no. EC no.****1 Flufenacet (ISO) 142459-58-3 -**Source Manufacturer  
Evaluation not readily biodegradable**2 diflufenican 83164-33-4 -**Source Manufacturer  
Evaluation Moderate to highly persistence in soils**12.3 Bioaccumulative potential****Bioconcentration factor (BCF)****No Substance name CAS no. EC no.****1 Flufenacet (ISO) 142459-58-3 -**

BCF 71

Source Manufacturer

**2 diflufenican 83164-33-4 -**

BCF 1276 - 1596

Method OECD 305

**Partition coefficient n-octanol/water (log value)****No Substance name CAS no. EC no.****1 Flufenacet (ISO) 142459-58-3 -**

log Pow 3.2

Reference temperature 20 °C

Source Manufacturer

**2 diflufenican 83164-33-4 -**

log Pow 4.2

Reference temperature 20 °C

Method OECD 117

**12.4 Mobility in soil****Mobility in soil****No Substance name CAS no. EC no.****1 Flufenacet (ISO) 142459-58-3 -**

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log Koc	2.305
Source	Manufacturer
<b>2</b>	<b>diflufenican</b>
	<b>83164-33-4</b>
	<b>-</b>
log Koc	3.534
Source	Manufacturer

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

Other information
Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Flufenacet (ISO)
	diflufenican
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Flufenacet (ISO)
	diflufenican
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

**14.3 Transport ICAO-TI / IATA**

Class	9
Packing group	III

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UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	Flufenacet (ISO)
	diflufenican
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

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

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	Flufenacet (ISO)	142459-58-3	-	75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E1
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**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

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H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

**Creation of the safety data sheet**

UMCO GmbH

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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