

Trade name: SUNFIRE Product no.: MAI 117 C00310 IE Current version : 2.0.0, issued: 04.09.2023 Replaced version: 1.0.10, issued: 30.06.2023 Region: IE SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 **Product identifier** Trade name SUNFIRE UFI: 328T-T07A-H002-G231 12 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture Plant protection product for professional use. Agriculture. 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 AZ Utrecht - Nederland 3521 0031 (0)30 200 1200 Telephone no. Fax no. 0031 (0)30 310 0241 e-mail info@certisbelchim.com Advice on Safety Data Sheet www.certisbelchim.com Identification of the manufacturer / supplier Address Certis Belchim B.V. - United Kingdom Suite 5, 3 Riverside, Granta Park - Great Abington Cambridgeshire CB21 6AD United Kingdom 0044 (0) 1223 652500 Telephone no. Fax no. 0044 (0) 1223 891210 e-mail info.uk@certisbelchim.com - www.certisbelchim.co.uk 1.4 **Emergency telephone number** Emergency telephone number For further advice for medical professionals: Dublin - National Poisons Information Centre, Beaumont Hospital, Dublin 9: Available from 8 am to 10pm - 7 days: +353 (01) 809 2166 Available 24hrs: +353(01)809 2566 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 Skin Sens. 1; H317 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

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



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GHS07 GI	HS08 GHS09
Signal word Warning	
Hazardous component(s) to Flufenacet (ISO)	be indicated on label:
Hazard statement(s) H302 H317 H373 H410	Harmful if swallowed. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure Very toxic to aquatic life with long lasting effects.
Hazard statements (EU) EUH208 EUH401	Contains Flufenacet (ISO), 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. To avoid risks to human health and the environment, comply with the instructions for use.
Precautionary statement(s) P260 P264 P270 P301+P312 P391 P501	Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Collect spillage. 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.
UFI:	

UFI: 328T-T07A-H002-G231

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 500 g/l (SC)

Hazardous ingredients

No	Substance name		Additio	nal information		
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concer	ntration		%
	REACH no					
1	Flufenacet (ISO)					
	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	1,2-benzisothiazol-3(2	2H)-one				
	2634-33-5	Acute Tox. 4*; H302	<	0,10		wt%
	220-120-9	Aquatic Acute 1; H400				
	613-088-00-6	Eye Dam. 1; H318				
	01-2120761540-60	Skin Irrit. 2; H315				
		Skin Sens. 1; H317				
Full	Text for all H_nhrases an	d FLIH-phrases pls see section 16				

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

1 - M = 100 - 2 - Skin Sens. 1: H317: C >= 0.05% - - -	No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2 - Skin Sens. 1: H317: C >= 0.05%	1	-	-	M = 100	-
	2	-	Skin Sens. 1; H317: C >= 0,05%	-	-

No Route, target organ, concrete effect



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ermal; liver; -		
oxicity estimate (ATE) values		
ral	dermal	inhalative
83 mg/kg bodyweight		
ra	xicity estimate (ATE) values	al dermal

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

If medical advice is needed, have product container or label at hand.

After inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

After skin contact

Take off contaminated clothing. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth. Call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed No data available.

4.3 Indication of any immediate medical attention and special treatment needed No data available.

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 (CO2); Carbon monoxide (CO)

5.3 Advice for firefighters

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 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



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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

No parameters available for monitoring.

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

State of aggregation			
liquid			
Form			
liquid			
Colour			
whitish			
Odour			
vanilla			
pH value			
Value	5,	,7	
Concentration	1		%
Source	manufacturer		
Deiling seist / heiling serve			



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No data available					
Melting point/freezing point					
No data available					
Decomposition temperature					
No data available					
Flash point					
Value	>	100	C°		
Ignition temperature					
No data available					
Auto-ignition temperature Value	>	400	°C		
Comments	Product is not selfi		U		
Oxidising properties	•				
not oxidizing					
Explosive properties					
not explosive					
Flammability					
Not applicable					
Lower explosion limit					
No data available					
Upper explosion limit					
No data available					
Vapour pressure			* 40 5 D		
Value Reference temperature		9 20	* 10-5 Pa °C		
Reference substance	N-Isomer	20	0		
Source	manufacturer				
Relative vapour density					
No data available					
Relative density					
No data available					
Density Value		1,1891	g/ml		
Reference temperature		20	°C		
Solubility					
No data available					
Partition coefficient n-octanol/water (log value)					
No Substance name		S no.		EC no.	
1 Flufenacet (ISO) log Pow	14	2459-58-3	3,2	-	
Reference temperature			3,2 20	°(5
Source	manufacturer				
Kinematic viscosity					
Not applicable					
Particle characteristics					
No data available					
2 Other information					

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



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

10.4 Conditions to avoid Temperatures > 40°C

- **10.5** Incompatible materials None known.
- **10.6 Hazardous decomposition products** No hazardous decomposition products known.

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 SUNFIRE	
LD50	300 - 2000 mg/kg
Species	rat
Method Source	OECD 423 manufacturer
Acute dermal toxicity	
No Product Name	
1 SUNFIRE	
Evaluation/classification	Based on available data, the classification criteria are not met.
Acute inhalational toxicity	
No Product Name	
1 SUNFIRE	- F
State of aggregation	Dust/mist
Evaluation/classification	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	
No Product Name	
1 SUNFIRE	
Evaluation/classification	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	
No Product Name	
1 SUNFIRE	
Evaluation/classification	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	
No data available	
No data available Germ cell mutagenicity	
No data available Germ cell mutagenicity No Substance name	CAS no. EC no.
No data available Germ cell mutagenicity No Substance name 1 Flufenacet (ISO)	142459-58-3 -
No data available Germ cell mutagenicity No Substance name 1 Flufenacet (ISO) Source	142459-58-3 - manufacturer
No data available Germ cell mutagenicity No Substance name 1 Flufenacet (ISO)	142459-58-3 -
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No data available

11.2 Information on other hazards Endocrine disrupting properties No data available. Other information No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No data available			
Toxicity to fish (chronic)			
No Product Name			
1 SUNFIRE			
NOEC		0,2	mg/l
Duration of exposure Species	Oncorhynchus mykiss	97	day(s)
Source	manufacturer		
	manalactaron		
Toxicity to Daphnia (acute) No data available			
Toxicity to Daphnia (chronic)			
No Product Name			
1 SUNFIRE		3,26	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		uuy(0)
Source	manufacturer		
Toxicity to algae (acute)			
No Product Name			
1 SUNFIRE			
ErC50		0,0045	mg/l
Duration of exposure		120	h
Species Source	Selenastrum capricornutum manufacturer		
EbC50		0,00204	mg/l
Duration of exposure		72	h
Species	Selenastrum capricornutum		
Source	manufacturer		
Toxicity to algae (chronic)			
No data available			
Bacteria toxicity			
No data available			

12.2 Persistence and degradability

Biod	legradability			
No	Substance name	CAS no.	EC no.	
1	Flufenacet (ISO)	142459-58-3	-	
Sour	се	manufacturer		
Eval	uation	not readily biodegradable		

12.3 Bioaccumulative potential

Bioc	oncentration factor (BCF)				
No	Substance name	CAS no.		EC no.	
1	Flufenacet (ISO)	142459-5	8-3	-	
BCF			71		
Sour	ce	manufacturer			
Parti	ition coefficient n-octanol/water (log value)				
No	Substance name	CAS no.		EC no.	
1	Flufenacet (ISO)	142459-5	8-3	-	
log F	Pow		3,2		
Refe	rence temperature		20	°C	
Sour	ce	manufacturer			



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12.4 Mobility in soil

Mob	ility in soil		
No	Substance name	CAS no.	EC no.
1	Flufenacet (ISO)	142459-58-3	-
log K	oc	2,305	
Sour	ce	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.

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12.7 Other adverse effects Other adverse effects

No other ecological effects are to be mentioned specifically. See the product label for additional instructions on environmental precautions when applying the product.

An environmental hazard cannot be ruled out in the event of unprofessional handling or disposal.

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

14.1	Class Classification code	9 M6
	Packing group	
	Hazard identification no.	90
	UN number	UN3082
	Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	Technical name	Flufenacet (ISO)
		1,2-benzisothiazol-3(2H)-one
	Tunnel restriction code	-
		9 Osmala di "Esta and tasa"
	Environmentally hazardous substance mark	Symbol "fish and tree"
	Substance mark	
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)
	Fire	1,2-benzisothiazol-3(2H)-one
	EmS Label	F-A, S-F 9
	Marine pollutant mark	9 Symbol "fish and tree"
	Manne politiant mark	Symbol lish and liee
14.3	Transport ICAO-TI / IATA	
	Class	9
	Packing group	III
	UN number	UN3082
	Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
	Technical name	Flufenacet (ISO)
		1,2-benzisothiazol-3(2H)-one
	Label	9



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	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 accord Not relevant	ding to IMO instruments
SECT	CION 15: Regulatory information	n
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>		
Ac	cording to the data available and/or spec	Annex XIV (List of substances subject to authorisation) cifications supplied by upstream suppliers, this product does not contain any substances sation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.
Ac co	cording to available data and the informa	tion provided by preliminary suppliers, the product does not contain substances that are for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in 07/2006.

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
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	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	75
2	Flufenacet (ISO)	142459-58-3	-	75
3	sodium hydroxide	1310-73-2	215-185-5	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				

Other regulations

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

Chemical safety assessment 15.2

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)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

	Guudee conoue eye aunuge
00	Very toxic to aquatic life.

Creation of the safety data sheet

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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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Region: IE