

Trade name: TAKUMI SC Product no.: NI 022 C0060/UK-1 Current version : 3.0.5, issued: 28.06.2023 Replaced version: 3.0.4, issued: 22.06.2023 Region: GB SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 **Product identifier** Trade name **TAKUMI SC** 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 Fungicide 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 0031 (0)30 310 0241 Fax no. e-mail info@certisbelchim.com Advice on Safety Data Sheet 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 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** 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)

Aquatic Chronic 2; H411 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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GHS09	
Signal word	
- Hazard statement(s) H411	Toxic to aquatic life with long lasting effects.
Hazard statements (EU) EUH208 EUH401	Contains 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(P273 P280 P391 P501	 s) Avoid release to the environment. Wear protective gloves. 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.

2.3 Other hazards

PBT assessment No data available.

vPvB assessment No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization Cyflufenamid 100 g/l (SC)

Hazardous ingredients

No	Substance name		Additio	onal information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conce	ntration	%
	REACH no				
1	Cyflufenamid				
	180409-60-3	Aquatic Chronic 1; H410	>=	5.00 - < 10.00	wt%
	605-896-2				
	-				
	-				
2	1,2-benzisothiazol-	3(2H)-one	pls. ret	fer to footnote (1)	
	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			
	-	Skin Irrit. 2; H315			
		Skin Sens. 1; H317			

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(1) Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

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

SECTION 4: First aid measures



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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. 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 Treat symptomatically.

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); Hydrogen chloride (HCI); Nitrogen oxides (NOx); Sulphur oxides (SxOy)

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 uncontrolled into the subsoil/soil. Notify the authorities if product enters sewers or public waters.

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.



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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 food, drinks and animal feeding stuffs. 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 food, beverages and animal feeds. Do not store together with: Bases; Acids

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



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State of aggregation			
Form			
liquid			
Colour white			
Odour aromatic			
pH value			
Value		6.4 25	°C
Reference temperature Concentration		25 1	%
Source	Manufacturer		
Boiling point / boiling range No data available			
Melting point/freezing point			
Value	-10 -	0	٦°
Source Comments	Manufacturer This product froze	after sto	rage at -10°C for 3 days.
Decomposition temperature			
No data available			
Flash point No data available			
Ignition temperature			
No data available			
Auto-ignition temperature	-		
Value Source	Manufacturer	382	°C
Oxidising properties			
not oxidizing			
Explosive properties			
Product does not present an explosion hazard.			
Flammability No data available			
Lower explosion limit			
No data available			
Upper explosion limit No data available			
Vapour pressure			
Value		3.54	*10-5 Pa
Reference temperature Source	Manufacturer	20	°
Relative vapour density			
No data available			
Relative density No data available			
Density			
No data available			



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Value		5.20	x 10-4 g/l		
Reference temperature		20	°C Ŭ		
Source	Manufacturer				
Solubility					
Value		18.6	g/l		
Reference temperature		20	٥		
Reference substance	n-hexane				
Source	Manufacturer				
Value		653	g/l		
Reference temperature		20	õ		
Reference substance	Methanol				
Source	Manufacturer				
		AS no		EC no	
Partition coefficient n-octanol/wat No Substance name 1 Cyflufenamid	C/	AS no. 0409-60-3	}	EC no. 605-896-2	
No Substance name 1 Cyflufenamid	C/	AS no. 0409-60-3	3 4.7		
No Substance name 1 Cyflufenamid log Pow Fow	C/				
No Substance name 1 Cyflufenamid	C/		4.7	605-896-2	
No Substance name 1 Cyflufenamid log Pow Reference temperature	C/ 18		4.7	605-896-2	
Substance name 1 Cyflufenamid log Pow Reference temperature with reference to Item (Content or Content o	С/ 18 рН 6,75		4.7	605-896-2	
No Substance name 1 Cyflufenamid log Pow Reference temperature with reference to Source	С/ 18 рН 6,75		4.7	605-896-2	
No Substance name 1 Cyflufenamid log Pow Reference temperature with reference to Source Kinematic viscosity Kinematic viscosity	С/ 18 рН 6,75	0409-60-3	4.7 25	605-896-2	
No Substance name 1 Cyflufenamid log Pow Reference temperature with reference to Source Kinematic viscosity Value	С/ 18 рН 6,75	0409-60-3	4.7 25 m Pa	605-896-2	
No Substance name 1 Cyflufenamid log Pow Reference temperature with reference to Source Kinematic viscosity Value Reference temperature Value	pH 6,75 Manufacturer	0409-60-3	4.7 25 m Pa	605-896-2	
No Substance name 1 Cyflufenamid log Pow Reference temperature with reference to Source Kinematic viscosity Value Reference temperature Type	C/ 18 pH 6,75 Manufacturer	0409-60-3	4.7 25 m Pa	605-896-2	

9.2 Other information

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 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 Bases; Acids

10.6 Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours. In case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acu	Acute oral toxicity			
No	Product Name			
1	TAKUMI SC			
LD5)	>	2000	mg/kg



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Spe	cies	rat		
Sou	Irce	Manufacturer		
Acu	Ite dermal toxicity			
No	Product Name			
	TAKUMI SC			
LD5		> rabbit	2000	mg/kg
Sou	cies Irce	Manufacturer		
	Ite inhalational toxicity Product Name			
1	TAKUMI SC			
LC5		>	2.64	mg/l
	ation of exposure		4	h
	te of aggregation	Dust/mist rat		
Sou	ecies Irce	Manufacturer		
	nments	highest checkable con	centration	
Eva	luation/classification	Based on available dat	a, the classification	
		(maximum achievable	concentration, no r	nortality).
Skir	n corrosion/irritation			
	Product Name			
1	TAKUMI SC			
Spe		rabbit Manufacturer		
	luation	non-irritant		
Com		÷		
	ious eye damage/irritation Product Name			
1	TAKUMI SC			
	ecies	rabbit		
Sou		Manufacturer		
Eva	luation	non-irritant		
	piratory or skin sensitisation			
	Product Name			
1 Pou	ITAKUMI SC Ite of exposure	Skin		
	ecies	guinea pig		
Sou		Manufacturer		
Eva	luation	non-sensitizing		
Ger	m cell mutagenicity			
	Substance name	CAS no.		EC no.
1	Cyflufenamid	180409-	60-3	605-896-2
Sou		Manufacturer	the classifier of	oritorio oro red
⊧va	luation/classification	Based on available dat	a, the classification	i criteria are not met.
	production toxicity			
	Substance name	CAS no.		EC no.
1 Sou	Cyflufenamid	180409- Manufacturer	60-3	605-896-2
	lice luation/classification	Based on available dat	a. the classification	n criteria are not met
	cinogenicity	040		EC no
	Substance name Cyflufenamid	CAS no. 180409-		EC no. 605-896-2
				000-000-2
1	Irce	Manufacturer		
1 Sou	rce luation/classification	Manufacturer Based on available dat	a, the classification	n criteria are not met.



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STOT - repeated exposure No data available

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Aspiration hazard 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 Product Name			
1 TAKUMI SC			
LC50	>	1000	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Source	Manufacturer		
Toxicity to fish (chronic)			
No data available			
Tovicity to Doubric (couto)			
Toxicity to Daphnia (acute) No Product Name			
No Product Name 1 TAKUMI SC			
EC50		950	ma/l
Duration of exposure		950 48	mg/l h
Species	Daphnia	40	11
Source	Manufacturer		
	Mandiacturer		
Toxicity to Daphnia (chronic)			
No data available			
Toxicity to algae (acute)			
No Product Name			
1 TAKUMI SC			
ErC50	>	200	mg/l
Duration of exposure		72	h
Species	Algae		
Source	Manufacturer		
Toxicity to algae (chronic)			
No Product Name			
1 TAKUMI SC			
NOEC		0.596	mg/l
Species	Algae	0.000	ing/i
Source	Manufacturer		
Bacteria toxicity			
No data available			

12.2 Persistence and degradability

Biod	legradability			
No	Substance name	CAS no.	EC no.	
1	Cyflufenamid	180409-60-3	605-896-2	
Sou	ce	Manufacturer		
Eval	uation	not readily biodegradable		



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12.3 Bioaccumulative potential

Biod	concentration factor (BCF)				
No	Substance name	CAS no.		EC no.	
1	Cyflufenamid	180409-60-	3	605-896-2	
BCF			528		
Spee	cies	fish			
Sour	rce	Manufacturer			
Dort	ition coefficient n-octanol/water (log valu	a)			
No	Substance name	CAS no.		EC no.	
1	Cyflufenamid	180409-60-	3	605-896-2	
log F	Pow		4.7		
Refe	erence temperature		25	°C	
with	reference to	pH 6,75			
Sour	rce	Manufacturer			

12.4 Mobility in soil

Mob	oility in soil					
No	Substance name	CAS no			EC no.	
1	Cyflufenamid	180409-	60-3		605-896-2	
log ł	Кос	3	-	3.3		
Sou	rce	Manufacturer				

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	No data available.
vPvB assessment	No data available.

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	Cyflufenamid
Tunnel restriction code	-
Label	9



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Curren	t version : 3.0.5, issued: 28.06.2023	Replaced version: 3.0.4, issued: 22.06.2023	Region: GB		
	Environmentally hazardous substance mark	Symbol "fish and tree"			
14.2	Transport IMDG Class Packing group UN number Proper shipping name Technical name EmS Label Marine pollutant mark	9 III UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Cyflufenamid F-A, S-F 9 Symbol "fish and tree"			
14.3	Transport ICAO-TI / IATA Class Packing group UN number Proper shipping name Technical name Label Environmentally hazardous substance mark	9 III UN3082 Environmentally hazardous substance, liquid, n.o.s. Cyflufenamid 9 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					
14.7	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.					
Re	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	

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substancesThis product is subject to Part I of Annex I, risk category:E2

Other regulations

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



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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)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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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