

Product no.: NI 022 C0060 IRE

Current version: 3.0.3, issued: 28.06.2023 Region: IE Replaced version: 3.0.2, issued: 06.06.2023 Region: IE

## 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 Fax no. 0031 (0)30 310 0241 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

Telephone no. 0044 (0) 1223 652500 Fax no. 0044 (0)1223 891210

e-mail info.uk@certisbelchim.com - www.certisbelchim.co.uk

### 1.4 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)

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**



GHS0

Signal word



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Hazard statement(s)

H411 Toxic to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

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

Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves.

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 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	Additional information		
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concer	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(2	2H)-one	pls. refe	er to footnote (1)		
	2634-33-5	Acute Tox. 4; H302	<	0,05		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

<sup>(1)</sup> 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**

## 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.



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### 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.

## **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.

### 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



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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

#### Other

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

### **Environmental exposure controls**

No data available.

State of aggregation

Lower explosion limit

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

liquid	
Form	
liquid	
Colour	
white	
Odour	
aromatic	
pH value	
Value Reference temperature Concentration	6,4 25 °C 1 %
Source	Manufacturer
Boiling point / boiling range	
No data available	
Melting point/freezing point	
Value	-10 - 0 °C
Source	Manufacturer This was a second of the second
Comments	This product froze after storage at -10°C for 3 days.
Decomposition temperature	
No data available	
Flash point	
No data available	
Ignition temperature	
No data available	
Auto-ignition temperature	200 00
Value Source	382 °C Manufacturer
	IMATUIACIUTEI
Oxidising properties not oxidizing	
Explosive properties	
Product does not present an explosion hazard.	
Flammability	
No data available	



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No data available				
Upper explosion limit				
No data available				
Vapour pressure				
Value		3,54	*10-5 Pa	
Reference temperature		20	°C	
Source	Manufacturer			
Relative vapour density				
No data available				
Relative density				
No data available				
Density				
No data available				
Solubility in water				
Value		5,20	x 10-4 g/l	
Reference temperature		20	°C	
Source	Manufacturer			
Solubility				
Value		18,6	g/l	
Reference temperature		20	°C	
Reference substance	n-hexane			
Source	Manufacturer	050	″	
Value		653	g/l °C	
Reference temperature Reference substance	Methanol	20	-0	
Source	Manufacturer			
	ivialiulaciulel			
Partition coefficient n-octanol/water (log value)				
No Substance name		CAS no.		EC no.
1 Cyflufenamid		180409-60-3		605-896-2
log Pow			47	

No Substance name		CAS no.		EC no.	
1 Cyflufenamid		180409-60-3		605-896-2	
log Pow			4,7		
Reference temperature			25	°C	
with reference to	pH 6,75				
Source	Manufacturer				
	•				

Kinematic viscosity					
Value	0,968 mPa*s				
Reference temperature	40 °C				
Туре	kinematic				
	Manufacturer				

Particle characteristics	
No data available	

## 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

Heat

## 10.5 Incompatible materials

Bases; Acids

## 10.6 Hazardous decomposition products

In case of fire: see section 5.

## **SECTION 11: Toxicological information**



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

Acute oral toxicity					
No	Product Name				
1	TAKUMI SC				
LD50		>	2000	mg/kg	
Species		rat			
Species Source		Manufacturer			

Acut	Acute dermal toxicity					
No	o Product Name					
1	TAKUMI SC					
LD50		>	2000	mg/kg		
Species		rabbit		9 9		
Sour	ce	Manufacturer				

Acut	Acute inhalational toxicity					
No	Product Name					
1	TAKUMI SC					
LC50		>	2,64	mg/l		
Duration of exposure			4	h		
State of aggregation		Dust/mist				
Species		rat				
Source		Manufacturer				
Comments		highest checkable concentration				
Evaluation/classification		Based on available data, the classification criteria are not met (maximum				
		achievable concentration, no mortality).				

Skin	Skin corrosion/irritation				
No	Product Name				
1	TAKUMI SC				
Spec	ies	rabbit			
Sour	ce	Manufacturer			
Evalu	uation	non-irritant			

Serio	Serious eye damage/irritation			
No	No Product Name			
1	TAKUMI SC			
Spec	ies	rabbit		
Sour	ce	Manufacturer		
Evalu	uation	non-irritant		

Resp	Respiratory or skin sensitisation				
No	Product Name				
1	TAKUMI SC				
Rout	te of exposure	Skin			
Spec	pies cies	guinea pig			
Source		Manufacturer			
Eval	uation	non-sensitizina			

Germ cell mutagenicity					
No	Substance name	CAS no.	EC no.		
1	Cyflufenamid	180409-60-3	605-896-2		
Source		Manufacturer			
Evaluation/classification		Based on available data, the classificati	on criteria are not met.		

Reproduction toxicity					
No	Substance name	CAS no.	EC no.		
1	Cyflufenamid	180409-60-3	605-896-2		
Source		Manufacturer			
Evaluation/classification		Based on available data, the classification	on criteria are not met		

Carcinogenicity					
No	Substance name	CAS no.	EC no.		
1	Cyflufenamid	180409-60-3	605-896-2		
Source		Manufacturer			
Evaluation/classification		Based on available data, the classification	on criteria are not met.		

Evaluation/classification	Based on available data, the classification criteria are not met.
STOT - single exposure	
No data available	
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

Toxic	Toxicity to fish (acute)				
No	Product Name				
1	TAKUMI SC				
LC50		>	1000	mg/l	
Dura	tion of exposure		96	h	
Species		Oncorhynchus mykiss			
Sour	ce	Manufacturer			

# Toxicity to fish (chronic)

No data available

Toxi	Toxicity to Daphnia (acute)					
No	Product Name					
1	TAKUMI SC					
EC50			950	mg/l		
Duration of exposure			48	h		
Species		Daphnia				
Sour	ce	Manufacturer				

## Toxicity to Daphnia (chronic)

No data available

Toxic	Toxicity to algae (acute)				
No	Product Name				
1	TAKUMI SC				
ErC50		>	200	mg/l	
Duration of exposure			72	h	
Species		Algae			
Sour	ce	Manufacturer			

Toxic	Toxicity to algae (chronic)				
No	Product Name				
1	TAKUMI SC				
NOE			0,596	mg/l	
Species Source		Algae		-	
Sour	ce	Manufacturer			

# Bacteria toxicity

No data available

12.2 Persistence and degradability

	- Poroletones and degradamity				
Biodegradability					
No	Substance name	CAS no.	EC no.		
1	Cyflufenamid	180409-60-3	605-896-2		
Source		Manufacturer			
Evaluation		not readily biodegradable			

12.3 Bioaccumulative potential

<u></u>	.o Biodocamalativo potentiai					
Bioc	Bioconcentration factor (BCF)					
No	Substance name	CAS no.	EC no.			
1	Cyflufenamid	180409-60-3	605-896-2			
BCF		528				
Species		fish				
Sour	ce	Manufacturer				

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Cyflufenamid	180409-60-3	605-896-2
log F	Pow	4,7	
Reference temperature		25	°C



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with reference to pH 6,75
Source Manufacturer

12.4 Mobility in soil

Mob	Mobility in soil				
No	Substance name	CAS no.		EC no.	
1	Cyflufenamid	180409-	30-3	605-896-2	
log Koc		3	- 3,3		
Source		Manufacturer			

## 12.5 Results of PBT and vPvB assessment

tesults 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

Environmentally hazardous 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 Cyflufenamid

1,2-benzisothiazol-3(2H)-one

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
UN number UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

Technical name Cyflufenamid

Label

Environmentally hazardous Symbol "fish and tree"

substance mark

## 14.4 Other information



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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 <u>EU regulations</u>

### 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.

Reg	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	n (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 substances		
This 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.

## 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

**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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