

**Trade name:** TAKUMI SC**Product no.:** NI 022 C0060 IRE**Current version :** 1.0.1, issued: 27.08.2019**Replaced version:** -, issued: -**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 Europe (GB)

Suite 5, 3 Riverside

Granta Park - Great Abington

Cambridgeshire CB21 6AD

United Kingdom

Telephone no. +44 (0) 1223 894 261

Fax no. +44 (0)1223 891210

e-mail info@certiseurope.co.uk - www.certiseurope.co.uk

**Advice on Safety Data Sheet**

certis@certiseurope.co.uk

### 1.4 Emergency telephone number

For further advice for medical professionals:

The National Poisons Information Service: -44 (0) 870 600 6266.

For further advice for veterinary surgeons: -44 (0) 20 7635 9195

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 GB +44 870 190 6777

## 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**

**Trade name:** TAKUMI SC**Product no.:** NI 022 C0060 IRE**Current version :** 1.0.1, issued: 27.08.2019**Replaced version:** -, issued: -**Region:** IE

GHS09

**Signal word**

-

**Hazard statement(s)**

H411 Toxic to aquatic life with long lasting effects.

**Hazard statements (EU)**

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****Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	
1	<b>Cyflufenamid</b>			
	180409-60-3	Aquatic Chronic 1; H410	>= 5,00 - < 10,00	%-b.w.
	-			
	-			
	-			

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

**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 mouth thoroughly with water. Never give anything by mouth to an unconscious person.

**Trade name:** TAKUMI SC**Product no.:** NI 022 C0060 IRE**Current version :** 1.0.1, issued: 27.08.2019**Replaced version:** -, issued: -**Region:** IE**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 (CO<sub>2</sub>); Carbon monoxide (CO); carbonyl compounds; Nitrogen oxides (NO<sub>x</sub>)**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 picked up, treat material as prescribed under heading "Disposal considerations".

**6.4 Reference to other sections**

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

**Trade name:** TAKUMI SC**Product no.:** NI 022 C0060 IRE**Current version :** 1.0.1, issued: 27.08.2019**Replaced version:** -, issued: -**Region:** IE**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**

<b>Form/Colour</b>	
liquid	
white	
<b>Odour</b>	
aromatic	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
Value	7
Source	Manufacturer
<b>Boiling point / boiling range</b>	
No data available	
<b>Melting point / melting range</b>	
No data available	
<b>Decomposition point / decomposition range</b>	

**Trade name:** TAKUMI SC**Product no.:** NI 022 C0060 IRE**Current version :** 1.0.1, issued: 27.08.2019**Replaced version:** -, issued: -**Region:** IE

No data available

**Flash point**

No data available

**Auto-ignition temperature**

Value 382 °C

Source Manufacturer

**Oxidising properties**

not oxidizing

**Explosive properties**

Product does not present an explosion hazard.

**Flammability (solid, gas)**

No data available

**Lower flammability or explosive limits**

No data available

**Upper flammability or explosive limits**

No data available

**Vapour pressure**Value 3,54 \*10<sup>-5</sup> Pa

Reference temperature 20 °C

Source Manufacturer

**Vapour density**

No data available

**Evaporation rate**

No data available

**Relative density**

No data available

**Density**

No data available

**Solubility in water**Value 5,20 x 10<sup>-4</sup> g/l

Reference temperature 20 °C

Source Manufacturer

**Solubility(ies)**

Value 18,6 g/l

Reference temperature 20 °C

Reference substance n-hexane

Source Manufacturer

Value 653 g/l

Reference temperature 20 °C

Reference substance Methanol

Source Manufacturer

**Partition coefficient: n-octanol/water**

No	Substance name	CAS no.	EC no.
1	Cyflufenamid	180409-60-3	-

log Pow 4,7

Reference temperature 25 °C

with reference to pH 6,75

Source Manufacturer

**Viscosity**

Value 30,8 m Pa

Reference temperature 40 °C

Source Manufacturer

Trade name: TAKUMI SC

Product no.: NI 022 C0060 IRE

Current version : 1.0.1, issued: 27.08.2019

Replaced version: -, issued: -

Region: IE

## 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

None known.

### 10.6 Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

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

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 corrosion/irritation			
No	Product Name		
1	TAKUMI SC		
Species	rabbit		
Source	Manufacturer		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Product Name		
1	TAKUMI SC		

**Trade name:** TAKUMI SC**Product no.:** NI 022 C0060 IRE**Current version :** 1.0.1, issued: 27.08.2019**Replaced version:** -, issued: -**Region:** IE

Species	rabbit
Source	Manufacturer
Evaluation	non-irritant

**Respiratory or skin sensitisation**

No	Product Name	Route of exposure	Species	Source	Evaluation
1	TAKUMI SC	Skin	guinea pig	Manufacturer	non-sensitizing

**Germ cell mutagenicity**

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

**Reproduction toxicity**

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

**Carcinogenicity**

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

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration hazard**

No data available

**SECTION 12: Ecological information****12.1 Toxicity****Toxicity to fish (acute)**

No	Product Name	LC50	Duration of exposure	Species	Source
1	TAKUMI SC	> 1000	96	Oncorhynchus mykiss	Manufacturer

**Toxicity to fish (chronic)**

No data available

**Toxicity to Daphnia (acute)**

No	Product Name	EC50	Duration of exposure	Species	Source
1	TAKUMI SC	950	48	Daphnia	Manufacturer

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

Trade name: TAKUMI SC

Product no.: NI 022 C0060 IRE

Current version : 1.0.1, issued: 27.08.2019

Replaced version: -, issued: -

Region: IE

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		
	Source	Manufacturer		

Bacteria toxicity				
No data available				

## 12.2 Persistence and degradability

Biodegradability				
No	Substance name	CAS no.	EC no.	
1	Cyflufenamid	180409-60-3	-	
	Source	Manufacturer		
	Evaluation	not readily biodegradable		

## 12.3 Bioaccumulative potential

Bioconcentration factor (BCF)				
No	Substance name	CAS no.	EC no.	
1	Cyflufenamid	180409-60-3	-	
	BCF		528	
	Species	fish		
	Source	Manufacturer		

Partition coefficient: n-octanol/water				
No	Substance name	CAS no.	EC no.	
1	Cyflufenamid	180409-60-3	-	
	log Pow		4,7	
	Reference temperature		25	°C
	with reference to	pH 6,75		
	Source	Manufacturer		

## 12.4 Mobility in soil

Mobility in soil				
No	Substance name	CAS no.	EC no.	
1	Cyflufenamid	180409-60-3	-	
	log Koc	3	-	3,3
	Source	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 Other adverse effects

No data available.

## 12.7 Other information

Other information
Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product



**Trade name:** TAKUMI SC**Product no.:** NI 022 C0060 IRE**Current version :** 1.0.1, issued: 27.08.2019**Replaced version:** -, issued: -**Region:** IE

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**

Residuals 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
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	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	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 Transport in bulk according to Annex II of Marpol and the IBC Code**

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)**

**Trade name:** TAKUMI SC**Product no.:** NI 022 C0060 IRE**Current version :** 1.0.1, issued: 27.08.2019**Replaced version:** -, issued: -**Region:** IE

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, PREPARATIONS AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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**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
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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.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

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 chapter.

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

H410 Very toxic to aquatic life with long lasting effects.

**Department issuing safety data sheet**

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

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.

**Alterations/supplements:**

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 759415