

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**

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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

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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 hazardsPBT 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	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	Cyflufenamid		
	180409-60-3 605-896-2 - -	Aquatic Chronic 1; H410	>= 5.00 - < 10.00 wt%
2	1,2-benzisothiazol-3(2H)-one		pls. refer to footnote (1)
	2634-33-5 220-120-9 613-088-00-6 -	Acute Tox. 4; H302 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0.10 wt%

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 (HCl); Nitrogen oxides (NO_x); Sulphur oxides (S_xO_y)

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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State of aggregation	
liquid	
Form	
liquid	
Colour	
white	
Odour	
aromatic	
pH value	
Value	6.4
Reference temperature	25 °C
Concentration	1 %
Source	Manufacturer
Boiling point / boiling range	
No data available	
Melting point/freezing point	
Value	-10 - 0 °C
Source	Manufacturer
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	
Value	382 °C
Source	Manufacturer
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	20 °C
Source	Manufacturer
Relative vapour density	
No data available	
Relative density	
No data available	
Density	
No data available	

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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
Value	653 g/l
Reference temperature	20 °C
Reference substance	Methanol
Source	Manufacturer

Partition coefficient n-octanol/water (log value)			
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 m Pa
Reference temperature	40 °C
Type	kinematic
Source	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

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

Acute oral toxicity			
No	Product Name		
1	TAKUMI SC		
LD50	>	2000	mg/kg

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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		
Species	rabbit		
Source	Manufacturer		
Evaluation	non-irritant		

Respiratory or skin sensitisation

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

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 classification 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 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 criteria are not met.		

STOT - single exposure

No data available

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No data available

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

Toxicity to Daphnia (acute)**No | Product Name****1 | TAKUMI SC**

EC50		950	mg/l
Duration of exposure		48	h
Species	Daphnia		
Source	Manufacturer		

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		
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****605-896-2**

Source	Manufacturer		
Evaluation	not readily biodegradable		

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Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	Cyflufenamid	180409-60-3	605-896-2
BCF		528	
Species		fish	
Source		Manufacturer	

Partition coefficient n-octanol/water (log value)			
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	

12.4 Mobility in soil

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	Cyflufenamid	180409-60-3	605-896-2
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 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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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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