

Trade name: Azatin**Product no.:** CUSA 046 C1037 IRE**Current version :** 2.0.0, issued: 13.06.2024**Replaced version:** 1.0.1, issued: 13.09.2023**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

Azatin

UFI:

JY10-Y0JM-W007-8EEY

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

Insecticide

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 1; H410

Eye Irrit. 2; H319

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: Azatin**Product no.:** CUSA 046 C1037 IRE**Current version :** 2.0.0, issued: 13.06.2024**Replaced version:** 1.0.1, issued: 13.09.2023**Region:** IE

GHS07

GHS09

Signal word

Warning

Hazardous component(s) to be indicated on label:

Azadirachtin

Hazard statement(s)

H319

Causes serious eye irritation.

H410

Very toxic to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208

Contains Azadirachtin. May produce an allergic reaction.

EUH401

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

Precautionary statement(s)

P101

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

P102

Keep out of reach of children.

P264

Wash hands and face thoroughly after handling.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313

If eye irritation persists: Get medical advice/attention.

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.

UFI:

JY10-Y0JM-W007-8EEY

2.3 Other hazards

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT assessment

This substance/mixture does not contain components in concentrations equal to or greater than 0.1% which are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Chemical characterization**

Azadirachtin 26 g/l (EC)

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	hexan-1-ol			
	111-27-3 203-852-3 603-059-00-6 01-2119487967-12	Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Irrit. 2; H319 Flam. Liq. 3; H226	>= 60,00 - < 30,00	wt%
2	Azadirachtin			
	11141-17-6 - -	Skin Sens. 1; H317 Aquatic Acute 1; H400	> 10,00 - <= 30,00	wt%

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. Causes serious eye irritation. Symptoms may include discomfort or pain, excessive blinking and tear production, redness and swelling of the conjunctiva.

Trade name: Azatin**Product no.:** CUSA 046 C1037 IRE**Current version :** 2.0.0, issued: 13.06.2024**Replaced version:** 1.0.1, issued: 13.09.2023**Region:** IE**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 the mouth thoroughly with water. Never give anything by mouth to an unconscious person.

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; Extinguishing measures to suit surroundings.

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

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not uncontrolled discharge 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 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

Take precautionary measures against static charges. Keep away from sources of heat and ignition.

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.

Recommended storage temperature

Value	<	54	°C
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Storage stability

Value	1	year(s)
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Trade name: Azatin**Product no.:** CUSA 046 C1037 IRE**Current version :** 2.0.0, issued: 13.06.2024**Replaced version:** 1.0.1, issued: 13.09.2023**Region:** IE

Comments Room temperature

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. Substances to be avoided, see section 10.

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****DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	hexan-1-ol			111-27-3 203-852-3	
	dermal	Long term (chronic)	systemic	28	mg/kg
	inhalative	Long term (chronic)	systemic	99	mg/m ³
	inhalative	Long term (chronic)	local	210	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	hexan-1-ol		111-27-3 203-852-3	
	water	fresh water	0,26	mg/L
	water	marine water	0,026	mg/L
	soil	-	0,12	mg/kg dry weight

8.2 Exposure controls**Appropriate engineering controls**

Provide good ventilation.

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 with side protection shield (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

Material thickness >= 0,38 mm

Breakthrough time > 480 min

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	viscous
Colour	dark brown
Odour	

Trade name: Azatin**Product no.:** CUSA 046 C1037 IRE**Current version :** 2.0.0, issued: 13.06.2024**Replaced version:** 1.0.1, issued: 13.09.2023**Region:** IE

sweetish; aromatic	
pH value	
Value	4,46
Concentration	1 %
Method	CIPAC MT 75.3
Source	manufacturer
Boiling point / boiling range	
No data available	
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	
Flash point	
Value	> 62 °C
Source	manufacturer
Ignition temperature	
No data available	
Auto-ignition temperature	
Value	295 °C
Method	EEC A15
Source	manufacturer
Oxidising properties	
not oxidizing	
Method	EEC A.21
Source	manufacturer
Explosive properties	
Product does not present an explosion hazard.	
Source	manufacturer
Flammability	
No data available	
Lower explosion limit	
No data available	
Upper explosion limit	
No data available	
Vapour pressure	
No data available	
Relative vapour density	
No data available	
Relative density	
No data available	
Density	
Value	0,9466 kg/l
Reference temperature	20 °C
Method	OECD 109
Source	manufacturer
Solubility	
No data available	
Partition coefficient n-octanol/water (log value)	
No data available	
Kinematic viscosity	
Value	0,0448 mPa*s
Reference temperature	20 °C
Type	dynamic
Method	OECD 114
Source	manufacturer
Value	0,0202 Pa*s
Reference temperature	7 °C
Type	dynamic
Method	OECD 114

Trade name: Azatin**Product no.:** CUSA 046 C1037 IRE**Current version :** 2.0.0, issued: 13.06.2024**Replaced version:** 1.0.1, issued: 13.09.2023**Region:** IE

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

Protect from heat and direct sunlight.

10.5 Incompatible materials

Alkalis; Oxidizing agents; Acids

10.6 Hazardous decomposition products

No hazardous decomposition products known. 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 Azatin**

LD50	>	2000	mg/kg
Species	rat		
Method	OECD 423		
Source	manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Acute dermal toxicity**No Product Name****1 Azatin**

LD50	>	2000	mg/kg
Species	rat		
Method	OECD 402		
Source	manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Acute inhalational toxicity**No Product Name****1 Azatin**

Source	manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Skin corrosion/irritation**No Product Name****1 Azatin**

Method	OECD 402		
Source	manufacturer		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Serious eye damage/irritation**No Product Name****1 Azatin**

Method	OECD 405		
Source	manufacturer		
Evaluation	strongly irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		

Respiratory or skin sensitisation

Trade name: Azatin**Product no.:** CUSA 046 C1037 IRE**Current version :** 2.0.0, issued: 13.06.2024**Replaced version:** 1.0.1, issued: 13.09.2023**Region:** IE

No	Product Name
1	Azatin
Route of exposure	respiratory tract
Method	OECD 406
Source	manufacturer
Evaluation	non-sensitizing
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	Skin
Method	OECD 406
Source	manufacturer
Evaluation	non-sensitizing
Evaluation/classification	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
No data available	
Reproduction toxicity	
No data available	
Carcinogenicity	
No data available	
STOT - single exposure	
No data available	
STOT - repeated exposure	
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	Azatin		
LC50		48	µg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Reference substance	CAS: 11141-17-6		
Source	manufacturer		
Toxicity to fish (chronic)			
No	Product Name		
1	Azatin		
NOEC		4,7	µg/l
Duration of exposure		28	day(s)
Species	Oncorhynchus mykiss		
Source	manufacturer		
Comments	CAS: 11141-17-6		
Toxicity to Daphnia (acute)			
No	Product Name		
1	Azatin		
EC50		1000	µg/l
Duration of exposure		48	h
Species	Daphnia magna		
Reference substance	CAS: 11141-17-6		
Source	manufacturer		
Toxicity to Daphnia (chronic)			
No	Product Name		
1	Azatin		
NOEC		1,6	µg/l
Duration of exposure		28	day(s)
Species	Chironomus riparius		

Trade name: Azatin**Product no.:** CUSA 046 C1037 IRE**Current version :** 2.0.0, issued: 13.06.2024**Replaced version:** 1.0.1, issued: 13.09.2023**Region:** IE

Source Comments	manufacturer CAS: 11141-17-6
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Toxicity to algae (acute)
No data available

Toxicity to algae (chronic)
No data available

Bacteria toxicity
No data available

12.2 Persistence and degradability

Biodegradability	
No	Product Name
1	Azatin
Evaluation	not readily biodegradable

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	This substance/mixture does not contain components in concentrations equal to or greater than 0.1% which are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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 into the environment other than the label use this product is intended for.

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 UN number or ID number**

ADR/RID/ADN	UN3082
IMDG	UN3082
ICAO-TI / IATA	UN3082

14.2 UN proper shipping name

ADR/RID/ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Azadirachtin
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Azadirachtin
ICAO-TI / IATA	Environmentally hazardous substance, liquid, n.o.s.
Technical name	Azadirachtin

14.3 Transport hazard class(es)

ADR/RID/ADN - Class	9
Label	9
Classification code	M6
Tunnel restriction code	-
Hazard identification no.	90

Trade name: Azatin

Product no.: CUSA 046 C1037 IRE

Current version : 2.0.0, issued: 13.06.2024

Replaced version: 1.0.1, issued: 13.09.2023

Region: IE

IMDG - Class	9
Label	9
ICAO-TI / IATA - Class	9
Label	9
14.4 Packing group	
ADR/RID/ADN	III
IMDG	III
ICAO-TI / IATA	III
14.5 Environmental hazards	
ADR/RID/ADN	Symbol "fish and tree"
IMDG	Symbol "fish and tree"
EmS	F-A, S-F
ICAO-TI / IATA	Symbol "fish and tree"
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

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.	
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
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.	
Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market	
Regulation (EU) No 547/2011 implementing Regulation (EC) No 1107/2009 as regards labelling requirements for plant protection products	
Annex III	
SP1	Do not contaminate water with the product or its container.

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)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.

Creation of the safety data sheet
 UMCO GmbH

Trade name: Azatin

Product no.: CUSA 046 C1037 IRE

Current version : 2.0.0, issued: 13.06.2024

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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.

Alterations/supplements:

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

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