

Safety data sheet

according to 1907/2006/EC, Article 31

print: 28.02.2023

rev n°: 1

Revision date: 28.02.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: OIKOS**kind of formulation:** emulsifiable concentrate (EC)**Article number:** Not applicable**Use** insecticide**Registration number REACH** Not applicable.**UFI:** UYMU-QWRC-N60G-XRXT**1.2 Relevant identified uses of the substance or mixture and uses advised against** Relevant use: Agriculture.**Application of the substance / the mixture** Agricultural chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SIPCAM OXON SpA - Via Sempione, 195 - Pero (MI) - ITALY

Tel. +39 02 35 37 81

1.4 Emergency telephone number:

Emergency phone: +39 02 353781 (8.00-17.00)

For any questions regarding this MSDS please contact:

msds@sipcam.com

Refer to section 16 for Poison Centres.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07



GHS09

Signal word Warning

Hazard-determining components of labelling:

azadirachtin A

Hazard statements

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P391 Collect spillage.

Additional information:

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

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.**vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of the substances listed below with harmless additions:

Dangerous components:

N° CAS	Designation	R-Phrases	%
CAS: 11141-17-6	azadirachtin A	⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	2.4%

Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Instantly remove any clothing soiled by the product.

After inhalation

Keep affected persons into the open air, position comfortably and keep warm.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact Instantly wash with water and soap and rinse thoroughly.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing

Rinse out mouth without swallowing, do not induce vomiting.

Instantly call for doctor.

Information for doctor Patient needs medical supervision for 48 h.

4.2 Most important symptoms and effects, both acute and delayed

Mucosal and skin irritation.

Nausea, vomiting

Headache

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder. Fight larger fires with water spray or alcohol-resistant foam. Do not use a direct stream of water to extinguish.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

Wear protective clothing conforming to European Standard EN 469.

Additional information

Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources

Ensure adequate ventilation

Wear protective clothing.

6.2 Environmental precautions:

Do not allow to enter the ground/soil.

Inform respective authorities in case product reaches water or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to Section 13.

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6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

The usual precautionary measures for handling chemicals shall be observed.
Wear personal protective equipments (PPE).
Avoid splashes or spray in enclosed areas.
Keep containers tightly sealed.
Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

Handling Avoid direct or indirect contact with the product. Do not eat, drink or smoke while working.

7.2 Conditions for safe storage, including any incompatibilities**Storage**

Store in a cool and ventilated place, away from heat source and direct sunlight without open sewage system.
Keep out the reach of children, unauthorized persons and animals. Keep away from food, drink and animal feedingstuffs.
Requirements to be met by storerooms and containers: Store only in the original container.

Information about storage in one common storage facility:

Prevent storage with incompatible materials (see chapter 10).
Store away from foodstuffs.

Further information about storage conditions:

Protect from heat and direct sunlight.
Protect from heat and sunlight. Store at 35°C max.
Store in a cool place.

7.3 Specific end use(s)

Agriculture
To be applied strictly for the uses described in the label.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters**Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs No further information available.

PNECs No further information available.

8.2 Exposure controls

Appropriate engineering controls Provide a proper ventilation, especially for indoor workplaces.

Individual protection measures, such as personal protective equipment**General protective and hygienic measures**

The usual precautionary measures for handling chemicals shall be observed.
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Do not eat or drink while working.

Breathing equipment:

Use breathing protection in case of insufficient ventilation (according to applicable European Standard).

Hand protection

Protective gloves against chemicals and micro-organisms in accordance with EN 374

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Eye/face protection Safety glasses recommended during refilling.

Body protection: Protective work clothing.

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Boots Safety footwear for professional use in accordance with EN 345.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Colour:	Brown
Odour:	Characteristic
Melting point/freezing point:	Not applicable
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Not applicable.
Flash point:	78 °C
Self-inflammability:	Product is not selfigniting.
pH value (1% in distilled water)	4 - 6
pH (undiluted sample)	
Solubility	
Water:	Emulsifiable
Density and/or relative density	
Density at 20 °C	1.07-1.10 g/cm ³

9.2 Other information

Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	281 °C
Explosive properties:	Product is not explosive.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity The product is not reactive under recommended handling conditions.

10.2 Chemical stability Stable under the recommended handling and storage conditions (see section 7).

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions are known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: None in standard storage conditions.

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SECTION 11: Toxicological information

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

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

OIKOS

Oral	LD50	>5,000 mg/kg (rat) EPA FIFRA Guideline 152-10
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50 (4 h)	>1.32 mg/L (rat) (OECD 403) maximum achievable concentration

CAS: 11141-17-6 azadirachtin A

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50 (4 h)	<2.45 mg/L (rat)

NOEL (no observable effect level)

CAS: 11141-17-6 azadirachtin A

Oral	NOAEL	33 mg/kg bw/d (rat) (90 d)
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Skin corrosion/irritation Based on available data, the classification criteria are not met.

Skin corrosion / irritation - Test

OIKOS

Irritation of skin	Skin corrosion	(rabbit) (OECD 404) Not irritating for the skin.
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Serious eye damage/irritation Based on available data, the classification criteria are not met.

Serious eye damage / Irritation - Test

OIKOS

Irritation of eyes	Eye Irritation	(rabbit) (OECD 405) Not irritating for the eyes.
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Respiratory or skin sensitisation

May cause an allergic skin reaction.

Sensitisation - Test

OIKOS

Sensitization	(guinea pig) Not skin sensitizer.
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Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Additional toxicological information: Sensitizer

Acute effects (acute toxicity, irritation and corrosivity) No further information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) No relevant information available.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

OIKOS

LC50 (96h)	4.4 mg/L (rainbow trout (<i>oncorhynchus mykiss</i>)) (OECD 203)
NOEC	0.247 mg/L Chironomus riparius - OECD 219

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CAS: 11141-17-6 azadirachtin A

LC50 (96h)	0.73 mg/L (rainbow trout (<i>oncorhynchus mykiss</i>))
EC50 (48h)	10 mg/L (<i>Daphnia magna</i>)
ErC50 (72h)	>36 mg/L (algae <i>Pseudokirchneriella subcapitata</i>)
NOEC	0.04 mg/L (rainbow trout (<i>oncorhynchus mykiss</i>)) (28 d)

Environmental toxicity**OIKOS**

Oral	LC50 (14d)	>8.8 mg/kg bw (earthworms, <i>Eisenia foetida</i>)
	LD 50	>69 µg/bee (bee (<i>Apis mellifera</i>))

CAS: 11141-17-6 azadirachtin A

Oral	EC 50	>2,000 mg/kg (<i>Colinus virginianus</i>)
		>8,880 mg/kg (earthworms, <i>Eisenia foetida</i>) (14 d)
	LD 50	>69 µg/bee (bee (<i>Apis mellifera</i>))
Dermal	LD 50	>100 µg/bee (bee (<i>Apis mellifera</i>))

12.2 Persistence and degradability No further relevant information available.**12.3 Bioaccumulative potential****CAS: 11141-17-6 azadirachtin A**

Octanol / Water partition coefficient	<3
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12.4 Mobility in soil**CAS: 11141-17-6 azadirachtin A**

Koc	173.5 ml/g
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12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.**12.7 Other adverse effects** No further relevant information available.**Remark:** Toxic for fish**DT 50 (active ingredient)****CAS: 11141-17-6 azadirachtin A**

DT 50	4.76 days (soil)
	low to moderate persistence
	13.7 days (water)
	not persistent in water

Additional ecological information:**General notes:**

Do not allow product to reach ground water, water bodies or sewage system.

Toxic for aquatic organisms

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation**

Must be specially treated under adherence to official regulations.

Uncleaned packagings: Dispose empty packagings according to current regulations.**SECTION 14: Transport information****14.1 UN number or ID number****ADR/RID/ADN, IMDG, IATA**

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14.2 UN proper shipping name
ADR/RID/ADN

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (azadirachtin (alfa + beta))

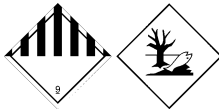
IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (azadirachtin A), MARINE POLLUTANT

IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (azadirachtin A)

14.3 Transport hazard class(es)
ADR/RID/ADN
Class
Label

 9 (M6) Miscellaneous dangerous substances and articles.
 9
IMDG, IATA
Class
Label

 9 Miscellaneous dangerous substances and articles.
 9

14.4 Packing group
ADR/RID/ADN, IMDG, IATA

III

14.5 Environmental hazards:

Product contains environmentally hazardous substances: azadirachtin A

Marine pollutant:Yes
Symbol (fish and tree)**Special marking (ADR/RID/ADN):**

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Kemler Number:

90

EMS Number:

F-A,S-F

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:**ADR/RID/ADN****Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category

3

Tunnel restriction code

E

Remarks:

Transport in Limited Quantities only in suitable packaging.

ADR Special Provision 375 may apply for UN 3077 in packagings of 5 kg or less and for UN3082 in packagings of 5 L or less.

IMDG**Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Remarks:

IMDG Code 2.10.2.7 may apply for UN 3077 in packagings of 5 kg or less and for UN3082 in packagings of 5 L or less.

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IATA**Remarks:**

For UN 3077 in packagings of 5 kg or less and UN3082 in packagings of 5 L or less, Special Provision A197 may apply according to IATA Dangerous Goods Regulation.

UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZADIRACTIN A), 9, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) no. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/521 (ATP 12 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 1107/2009

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Directive 2012/18/EU

Named dangerous substances - ANNEX I Not applicable

Seveso category E2 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing data specification sheet: Product safety department.

Contact:

Product safety department

SIPCAM OXON

H statements of components:

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

EC 50: Effective concentration, 50 percent

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

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*LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Skin Sens. 1: Skin sensitisation – Category 1**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2***Sources**

Document elaborated on the basis of the data required by the EC Regulation 1107/2009 (plant protection products) and in accordance with the EC Regulation 878/2020.

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