

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

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

1.1 Product identifier

Trade name: GRECALE

kind of formulation: Flowable (SC)

Article number: not applicable

Registration number REACH Not applicable.

UFI: 9P27-PR2R-E10J-1N0T

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant use: Agriculture.

Fungicide

Agrochemicals formulation.

Product category PC27 Plant protection products

Application of the substance / the mixture

Agricultural chemicals

Plant protection product

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SIPCAM OXON S.p.A.

Registered office: Via Carroccio, 8 - 20123 Milano, Italia

Management: Via Sempione, 195 - 20016 Pero (MI), Italia

Production site: Via Vittorio Veneto, 81 - 26857 Salerano s. Lambro (LO), Italia

Tel.: +39 0371 5961 (8:00 - 17:00 GMT+1)

Website: www.sipcam-oxon.com

E-mail: msds@sipcam.com

1.4 Emergency telephone number:

Emergency phone: +39 02 353781 (8.00-17.00 GMT+1)

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



GHS08 health hazard

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

STOT RE 2 H373 May cause damage to the thymus, the eyes and the blood through prolonged or repeated exposure.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

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.

(Contd. on page 2)

UL

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

Trade name: GRECALE

(Contd. of page 1)

Hazard pictograms



GHS07 GHS08 GHS09

Signal word Warning

Hazard-determining components of labelling:

fluazinam (ISO)

Cymoxanil

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

Hazard statements

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to the thymus, the eyes and the blood through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P263 Avoid contact during pregnancy and while nursing.

P280 Wear protective gloves / eye protection / face protection.

P301 IF SWALLOWED:

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

P311 Call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P391 Collect spillage.

Additional information:

SPI Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

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: The mixture does not contain any PBT substances.

vPvB: The mixture does not contain any vPvB substances.

Determination of endocrine-disrupting properties








The substance/mixture does not contain components considered to have endocrine disrupting properties in accordance with Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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: 79622-59-6	fluazinam (ISO)	 Repr. 2, H361d;  Eye Dam. 1, H318;  Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10);  Acute Tox. 4, H332; Skin Sens. 1, H317	25.4%
CAS: 57966-95-7 EINECS: 261-043-0 Index number: 616-035-00-5	Cymoxanil	 Repr. 2, H361fd; STOT RE 2, H373;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Acute Tox. 4, H302; Skin Sens. 1, H317 ATE: LD50 oral: 360 mg/kg	16.9%

(Contd. on page 3)

UL

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

Trade name: GRECALE

(Contd. of page 2)

CAS: 57-55-6 EINECS: 200-338-0 Reg.nr.: 01-2119456809-23-xxxx	Propane-1,2-diol substance with a Community workplace exposure limit	2.5-10%
CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6 Reg.nr.: 01-2119485924-24-xxxx	phosphoric acid ⚠ Met. Corr.1, H290; Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	<2.5%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6 Reg.nr.: 01-2120761540-60-xxxx	1,2-benzisothiazol-3(2H)-one ⚠ Acute Tox. 2, H330; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 ATE: LD50 oral: 450 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 %	<0.05%

Additional information

Factor M=1, unless otherwise stated.

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

Show this safety data sheet to the doctor.

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Personal protection for the First Aider.

After inhalation

Supply fresh air and call for doctor for safety reasons.

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, until symptoms disappear, and then with ophtalmic decongestant solution; seek medical attention. Take immediately to hospital, in case of severe injuries.

After swallowing

Instantly call for doctor.

Call a doctor immediately.

Rinse out mouth without swallowing, do not induce vomiting.

Information for doctor Patient needs medical supervision for 48 h.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Seek the advice of a Poison Control Centre

Treat symptomatically and supportively

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.

Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents None.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Sulphur oxides (SOx)

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 protective clothing conforming to European Standard EN 469.

(Contd. on page 4)

UL

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

Trade name: GRECALE

(Contd. of page 3)

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered containers with water spray jet.
Collect contaminated fire fighting water separately. It must not enter drains.
Do not allow extinguishing media and spilled material to enter drains or water courses.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Keep people at a distance and stay on the windward side.

Wear protective clothing.

6.1.1. For non-emergency personnel

wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing;
remove ignition sources, provide sufficient ventilation, control dust;
apply emergency procedures, evacuate the danger area or consult an expert.

6.1.2. For emergency responders

wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing;

In case of dust provide inhalation protection

Wear protective clothing, boots and glasses

6.2 Environmental precautions:

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

Do not allow to enter drainage system, surface or ground water.

Prevent from spreading (e.g. by damming-in or oil barriers).

Collect with suitable equipment and do not allow to enter drainage system, surface or ground water.

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.

Ensure adequate ventilation.

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**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Wear personal protective equipments (PPE).

The usual precautionary measures for handling chemicals shall be observed.

Information about protection against explosions and fires:

The product is not flammable

Keep ignition sources away - Do not smoke.

Handling

Avoid contact with the skin and vapour inhalation; do not eat, drink nor smoke while working.

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:

Store container in a well ventilated position.

Store in cool, dry conditions in well sealed containers.

Storage class 12

(Contd. on page 5)

UL

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

Trade name: GRECALE

(Contd. of page 4)

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:
CAS: 57966-95-7 Cymoxanil

 TWA (Gran Bretagna) Short-term value: 5 mg/m³
CAS: 57-55-6 Propane-1,2-diol

 WEL (Gran Bretagna) Long-term value: 474* 10** mg/m³, 150* ppm
 *total vapour and particulates **particulates

CAS: 7664-38-2 phosphoric acid

 WEL (Gran Bretagna) Short-term value: 2 mg/m³
 Long-term value: 1 mg/m³

DNELs

CAS: 7664-38-2 phosphoric acid

Oral	DNEL Long-term	10.7 mg/kg bw/day (workers) 4.57 mg/kg bw/day (consumers)
	DNEL Short-term	2 mg/m ³ (workers)
Inhalative	DNEL Long-term	1 mg/m ³ (workers) 0.36 mg/m ³ (consumers)
	DNEL Short-term	

PNECs No further information available.

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

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.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Pregnant women must strictly avoid inhalation or contact with the skin.

Do not eat, drink or smoke while working.

Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.



Breathing protection recommended in accordance with the relevant European Standards.

Hand protection

Protective gloves (rubber or plastic).



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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves Nitrile rubber, NBR

(Contd. on page 6)

UL

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

Trade name: GRECALE

(Contd. of page 5)

Eye/face protection



Tightly sealed safety glasses in accordance with EN 166.

Body protection: Protective work clothing.

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

Environmental exposure controls

Waste waters from equipment cleaning shall be disposed according to local and national regulation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Liquid
Colour:	Cream coloured
Odour:	Characteristic
Melting point/freezing point:	Not determined
Flammability	Not applicable because the product is liquid
Lower and upper explosion limit	
Lower:	Not explosive Method EU A.14
Upper:	Not explosive Method EU A.14
Flash point:	no flash point up to 110 °C.
Decomposition temperature:	385±4 °C (UE A.15)
pH value (1% in distilled water)	5.32 (CIPAC MT 75.3)
pH (undiluted sample)	
Viscosity:	
Kinematic viscosity dynamic at 20 °C:	Not determined. 1375 mPas (CIPAC MT 192)
Solubility	
Water:	Dispersible
Density and/or relative density	
Relative density at 20 °C	1.2 g/ml (CIPAC MT 3.3.2)

9.2 Other information

Appearance:	
Form:	Viscous suspension
Important information on protection of health and environment, and on safety.	
Self-inflammability:	Product is not selfigniting. Method EU A.15
Explosive properties:	Product is not explosive. Method EU A.14
Solvent content:	
Organic solvents:	4.0 %
Water:	45 %
Solids content:	26.8% %
Change in condition	
Softening point/range	
Oxidising properties	Not an oxidiser Method EU A.21

Information with regard to physical hazard classes

Explosives	The product is not explosive. Method EU A.14
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	The product is not flammable as it does not contain flammable solvents.

(Contd. on page 7)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

Trade name: GRECALE

(Contd. of page 6)

Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Product is not autoflammable. Method EU A.15
Pyrophoric solids	Void
Self-heating substances and mixtures	The product is not auto-flammable since it doesn't contain auto-flammable solvents
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Product not oxidising. Method EU A.21
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 and stored 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.

SECTION 11: Toxicological information

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

Acute toxicity Harmful if swallowed.

LD/LC50 values that are relevant for classification:

Oral	LD50	300-2,000 mg/kg (rat) OECD 420
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50 (4 h)	>1.58 mg/L (rat) (OECD 403)

CAS: 79622-59-6 fluazinam (ISO)

Oral	LD50	>2,000 mg/kg (rat) OECD 425
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50 (4 h)	1.68 mg/L (rat) (OECD 403)

CAS: 57966-95-7 Cymoxanil

Oral	LD50	360 mg/kg (ATE) 360 mg/kg (rat) Harmonized ATE
Dermal	LD50	>2,000 mg/kg (rat)

CAS: 68425-94-5 Sulfonated aromatic polymer, sodium salt

Oral	LD50	>5,000 mg/kg (rat)
------	------	--------------------

CAS: 7664-38-2 phosphoric acid

Oral	LD50	>300 mg/kg (rat) (OECD 423)
------	------	-----------------------------

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Skin corrosion / irritation - Test

Irritation of skin	Skin corrosion	(rabbit) (OECD 404) Not irritant
--------------------	----------------	-------------------------------------

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Serious eye damage / Irritation - Test

Irritation of eyes	Eye Irritation	(rabbit) (OECD 405) Not irritant
--------------------	----------------	-------------------------------------

(Contd. on page 8)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

Trade name: GRECALE

(Contd. of page 7)

CAS: 68425-94-5 Sulfonated aromatic polymer, sodium salt

Irritation of eyes | Eye Irritation | Irritant

Respiratory or skin sensitisation May cause an allergic skin reaction.

Sensitisation - Test

Sensitization (mice) (OECD 429 Mouse Local lymphnode assay)
Skin Sensitizer

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 Suspected of damaging fertility. Suspected of damaging the unborn child.

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

STOT-repeated exposure

May cause damage to the thymus, the eyes and the blood through prolonged or repeated exposure.

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

Other information: For symptoms and effects see section 4.

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

Repeated dose toxicity No relevant information available.

CMR effects (cancerogenity, mutagenicity and toxicity for reproduction)

Cymoxanil classified as suspected reprotoxic (H361fd)

11.2 Information on other hazards
Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity Very toxic to aquatic life with long lasting effects.

Aquatic toxicity:

EC50 (72h)	0.38 mg/L (algae <i>Pseudokirchneriella subcapitata</i>)
LC50 (96h)	0.14 mg/L (fish)
EC50 (48h)	0.384 mg/L (<i>Daphnia magna</i>)

CAS: 79622-59-6 fluazinam (ISO)

EC50 (72h)	>0.22 mg/L (algae)
LC 50	0.055 mg/L (bluegill sunfish (<i>Lepomis macrochirus</i>))
	0.22 mg/L (<i>Daphnia magna</i>)

CAS: 57966-95-7 Cymoxanil

LC50 (96h)	29 mg/L (bluegill sunfish (<i>Lepomis macrochirus</i>))
EC50 (48h)	27 mg/L (<i>Daphnia magna</i>)
ErC50 (72h)	0.254 mg/L (algae <i>anabaena flos-aquae</i>)
NOEC	0.044 mg/L (fish) (90 d)

CAS: 68425-94-5 Sulfonated aromatic polymer, sodium salt

EC50 (72h)	>100 mg/L (algae <i>Pseudokirchneriella subcapitata</i>) (OECD 201) Read-across
LC50 (96h)	>10-100 mg/L (<i>Danio rerio</i>) (OECD 203) Read-across
EC10 (72h)	>100 mg/L (algae <i>Pseudokirchneriella subcapitata</i>) (OECD 201) Read-across
EC10	>10-100 mg/L (algae <i>Pseudokirchneriella subcapitata</i>) (OECD 211) 21d

CAS: 7664-38-2 phosphoric acid

EC50 (72h)	>100 mg/L (algae) (OECD 201)
EC50 (48h)	>100 mg/L (<i>Daphnia magna</i>) (OECD 202)

Environmental toxicity

Oral	LD 50	>200 µg/bee (bee (<i>Apis mellifera</i>))
Dermal	LD 50	>100 µg/bee (bee (<i>Apis mellifera</i>))

(Contd. on page 9)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

Trade name: GRECALE

(Contd. of page 8)

CAS: 57966-95-7 Cymoxanil

Oral	LD 50	>2,000 mg/kg bw (<i>Colinus virginianus</i>)
	EC 50	>1,000 mg/kg (earthworms, <i>Eisenia foetida</i>) (14 d)
	LD 50	>85.29 µg/bee (bee (<i>Apis mellifera</i>))
Dermal	LD 50	>100 µg/bee (bee (<i>Apis mellifera</i>))

12.2 Persistence and degradability
CAS: 68425-94-5 Sulfonated aromatic polymer, sodium salt

Biodegradation	%
	Not readily biodegradable

12.3 Bioaccumulative potential
CAS: 79622-59-6 fluazinam (ISO)

Octanol / Water partition coefficient	4.03 (partition n-octanol/water)
---------------------------------------	----------------------------------

CAS: 57966-95-7 Cymoxanil

Octanol / Water partition coefficient	0.67 (partition n-octanol/water)
---------------------------------------	----------------------------------

CAS: 8061-51-6 Sodium ligninsulphonate

Octanol / Water partition coefficient	(valore stimato) -3,45
BCF - Bioconcentration factor	3.2 (fish)

12.4 Mobility in soil
CAS: 8061-51-6 Sodium ligninsulphonate

Koc	>99,999 ml/g (valore stimato)
-----	-------------------------------

12.5 Results of PBT and vPvB assessment
PBT: None of the ingredients meets the classification requirements.

vPvB: None of the ingredients meets the classification requirements.

12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects No further relevant information available.

Remark: Very toxic for fish

DT 50 (active ingredient)
CAS: 57966-95-7 Cymoxanil

DT 50	1.4 days (soil)
	Very low to low persistence
	0.3 days (water)
	Not persistent

CAS: 8061-51-6 Sodium ligninsulphonate

DT 50	0.098 days (aria)
-------	-------------------

Additional ecological information:
General notes:

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into soil.

Also poisonous for fish and plankton in water bodies.

Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

Very toxic for aquatic organisms

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings: Dispose empty packagings according to current regulations.

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number
ADR/RID/ADN, IMDG, IATA

UN3082

(Contd. on page 10)

UL

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

Trade name: GRECALE

(Contd. of page 9)

14.2 UN proper shipping name
ADR/RID/ADN

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fluazinam (ISO), Cymoxanil)

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fluazinam (ISO), Cymoxanil), MARINE POLLUTANT

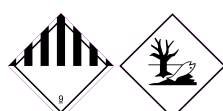
IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fluazinam (ISO), Cymoxanil)

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: fluazinam (ISO), Cymoxanil

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

Stowage Category

A

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.

(Contd. on page 11)

UL

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

Trade name: GRECALE

(Contd. of page 10)

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. (FLUAZINAM (ISO), CYMOXANIL), 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

Regulation (EC) n. 1272/2008

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

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011

Regulation (EU) n. 618/2012

Regulation (EU) n. 487/2013

Regulation (EU) n. 944/2013

Regulation (EU) n. 605/2014

Regulation (EU) n. 2015/1221

Regulation (EU) n. 2016/918

Regulation (EU) n. 2016/1179

Regulation (EU) n. 2017/776

Regulation (EU) n. 2018/669

Regulation (EU) n. 2018/521

Regulation (EU) n. 2018/1480

Regulation (EU) n. 2020/217

Regulation (EU) n. 2020/1182

Regulation (EU) n. 1107/2009

Regulation (EU) n. 2021/643

Regulation (EU) n. 2021/849

Regulation (EU) n. 2022/692

Regulation (EU) n. 2023/1434

Regulation (EU) n. 2022/1435

Regulation (EU) n. 2024/197

Directive 2012/18/EU

Named dangerous substances - ANNEX I Not applicable

Seveso category E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

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

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

(Contd. on page 12)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 23.01.2025

rev n°: 3 (replaces version 2)

Revision date: 21.11.2024

Trade name: GRECALE

(Contd. of page 11)

National regulations
Technical instructions (air):

Class	Share in %
Wasser	22.2
NK	4.0

Water hazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.

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 msds@sipcam.com

 For Poison Centres in Europe see: <https://poisoncentres.echa.europa.eu>
Date of previous version: 23.03.2023

Version number of previous version: 2

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

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Repr. 2: Reproductive toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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

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.

* Data compared to the previous version altered.

* Data compared to the previous version altered.

23.03.2023

UL