

Safety data sheet

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

print: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

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.**1.2 Relevant identified uses of the substance or mixture and uses advised against**
Agrochemicals formulation.

Fungicide

Product category: PC27 Plant protection products**Application of the substance / the mixture**

Industrial Use

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.

For ROI only: In the event of an emergency, call the National Poisons Centre,

Beaumont Hospital at 01 809 2566 or 01 837 9964

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: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

Trade name: GRECALE

(Contd. of page 1)

Hazard pictograms

GHS07 GHS08 GHS09

Signal word Warning**Hazard-determining components of labelling:**

Cymoxanil

fluazinam (ISO)

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

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

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

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor/ Plant safety department.

P314 Get medical advice/attention if you feel unwell.

P391 Collect spillage.

Additional information:

SP1 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:** as listed below:

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		10-25%
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		≥10-<25%
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: 68425-94-5	Sulfonated aromatic polymer, sodium salt ⚠ Eye Irrit. 2, H319		≥2.5-<10%

(Contd. on page 3)

UL

Safety data sheet

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

print: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

Trade name: GRECALE

		(Contd. of page 2)
CAS: 8061-51-6	Sodium ligninsulphonate ⚠ Eye Irrit. 2, H319	<2.5%
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 %	≥0.025-<0.036%

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

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 ophthalmic decongestant solution; seek medical attention. Take immediately to hospital, in case of severe injuries.

After swallowing

In case of persistent symptoms consult doctor.

Instantly call for doctor.

Call a doctor immediately.

Rinse out mouth without swallowing, do not induce vomiting.

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 Formation of poisonous gases during heating or in fires.

5.3 Advice for firefighters
Protective equipment:

Put on breathing apparatus.

Wear protective clothing conforming to European Standard EN 469.

Additional information

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.

Safety data sheet

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

print: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

Trade name: GRECALE

(Contd. of page 3)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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 and provide sufficient ventilation
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;

Provide inalation protection adapt to the product

Wear protective clothing, boots and glasses

Put on breathing apparatus.

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 inalation 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:

Keep ignition sources away - Do not smoke.

Keep breathing equipment ready.

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.

(Contd. on page 5)

Safety data sheet

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

print: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

Trade name: GRECALE

(Contd. of page 4)

Further information about storage conditions:

Store container in a well ventilated position.

Store in cool, dry conditions in well sealed containers.

Storage class 12**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)

PNECs No further information available.**Additional information:** The lists that were valid during the compilation were used as basis.**8.2 Exposure controls****Appropriate engineering controls** No further data; see section 7.**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:

Use protective mask (A2-P3 filter)

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 against mechanical risks in accordance with EN 388.

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.

(Contd. on page 6)

UL

Safety data sheet

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

print: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

Trade name: GRECALE

(Contd. of page 5)

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

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Eye/face protection


Tightly sealed safety glasses in accordance with EN 166.

Body protection:

Tyvek suit

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 °C.
Auto-ignition temperature:	385±4 °C (UE A.15)
Decomposition temperature:	Not determined.
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: 45.0 %

Solids content: 26.8 %

(Contd. on page 7)

Safety data sheet

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

print: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

Trade name: GRECALE

(Contd. of page 6)

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.

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.

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:

CYMOXANIL 200 FLUAZINAM 300 SC

Oral	LD50	300-2,000 mg/kg (rat) OECD 420
------	------	-----------------------------------

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)
--------	------	--------------------

(Contd. on page 8)

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

print: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

Trade name: GRECALE

(Contd. of page 7)

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****Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Serious eye damage / Irritation - Test****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.**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.**CMR effects (cancerogenity, mutagenicity and toxicity for reproduction)**

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

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:****CYMOXANIL 200 FLUAZINAM 300 SC**EC50 (72h) | 0.38 mg/L (algae *Pseudokirchneriella subcapitata*)

LC50 (96h) | 0.14 mg/L (fish)

EC50 (48h) | 0.384 mg/L (*Daphnia magna*)**CAS: 79622-59-6 fluzinam (ISO)**

EC50 (72h) | >0.22 mg/L (algae)

LC 50 | 0.055 mg/L (bluegill sunfish (*Lepomis macrochirus*))0.22 mg/L (*Daphnia magna*)**CAS: 57966-95-7 Cymoxanil**LC50 (96h) | 29 mg/L (bluegill sunfish (*Lepomis macrochirus*))EC50 (48h) | 27 mg/L (*Daphnia magna*)ErC50 (72h) | 0.254 mg/L (algae *anabaena flos-aquae*)

NOEC | 0.044 mg/L (fish) (90 d)

CAS: 68425-94-5 Sulfonated aromatic polymer, sodium saltEC50 (72h) | >100 mg/L (algae *Pseudokirchneriella subcapitata*) (OECD 201)

Read-across

LC50 (96h) | >10-100 mg/L (*Danio rerio*) (OECD 203)

Read-across

EC10 (72h) | >100 mg/L (algae *Pseudokirchneriella subcapitata*) (OECD 201)

Read-across

EC10 | >10-100 mg/L (algae *Pseudokirchneriella subcapitata*) (OECD 211)

21d

CAS: 7664-38-2 phosphoric acid

EC50 (72h) | >100 mg/L (algae) (OECD 201)

(Contd. on page 9)

UL

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

print: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

Trade name: GRECALE

(Contd. of page 8)

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

Environmental toxicity**CYMOXANIL 200 FLUAZINAM 300 SC**

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

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

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
----------------	---	---------------------------

Other information: The product is easily 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)
-------------------------------	------------

Other information The product is not mobile in soil.**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)
-------	-------------------

Soil and Water strongly absorbed by soil**Additional ecological information:****General notes:**

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

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.

Very toxic for aquatic organisms

(Contd. on page 10)

Safety data sheet

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

print: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

Trade name: GRECALE

(Contd. of page 9)

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

14.2 UN proper shipping name

ADR/RID/ADN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fluazinam (ISO), Cymoxanil)

IMDG

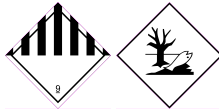
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fluazinam (ISO), Cymoxanil), MARINE POLLUTANT

IATA

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

14.3 Transport hazard class(es)

ADR/RID/ADN



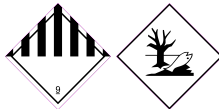
Class

9 (M6) Miscellaneous dangerous substances and articles.

Label

9

IMDG, IATA



Class

9 Miscellaneous dangerous substances and articles.

Label

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

(Contd. on page 11)

UL

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

print: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

Trade name: GRECALE

(Contd. of page 10)

Remarks:	Transport in Limited Quantities only in suitable packaging.
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
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)

UL

Safety data sheet

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

print: 16.12.2024

rev n°: 2 (replaces version 1)

Revision date: 16.12.2024

Trade name: GRECALE

(Contd. of page 11)

National regulations**Technical instructions (air):**

Class	Share in %
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.

Bibliographic sources:

- ECHA database
- HSDB in Pubchem
- Pesticide properties database
- Pesticide manual
- Internal company documents

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: 19.11.2022

Version number of previous version: 1

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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.**

19.11.2022

UL