

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.05.2021

Version number 1

Revision: 28.05.2021

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

- 1.1 Product identifier

- Trade name: **ZETANIL**

- Kind of formulation Water dispersible granule (WG)

- UFI: -

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

- Application of the substance / the mixture Agriculture

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

SIPCAM OXON S.P.A. - Via Sempione, 195 - 20016 PERO (MI) - ITALY

Telephone: + 39 02 35378400 - Fax: +39 02 3390275

e-mail: infosds@sipcam.com

- Informing department: Product safety department.

- 1.4 Emergency telephone number:

For further information on SDS, please contact the following telephone number: +39 02 35378400 (8.00 - 17.00)

or send an e-mail to: infosds@sipcam.com

For POISON CENTRES see section 16

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- 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 and the blood through prolonged or repeated exposure. Route of exposure: Inhalation and Dermal.



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.

- Additional information: no data

- 2.2 Label elements

- Hazard pictograms



GHS07



GHS08



GHS09

- Signal word Warning

- Hazard statements

H302 Harmful if swallowed.

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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 and the blood through prolonged or repeated exposure. Route of exposure: Inhalation and Dermal.

H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements

P102 Keep out of reach of children.

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.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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

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

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 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.

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures- **Description:** Mixture of the substances listed below with harmless additions.**- Dangerous components:**

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	33.0%
CAS: 156052-68-5 Index number: 616-141-00-1	zoxamide (ISO) ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); ⚠ Skin Sens. 1, H317	33.0%
CAS: 85586-07-8 EINECS: 287-809-4 Reg.nr.: 01-2119489463-28-XXXX	Sulfuric acid, mono-C12-14-alkyl esters, sodium salt & Alcohols C12-14 ⚠ Flam. Sol. 1, H228; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	2.0%

- **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**

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

Show this safety data sheet to the doctor

- After inhalation

Supply fresh air and call for doctor for safety reasons.

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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.*

- After swallowing *Instantly call for doctor.*

- Information for doctor *Medical supervision for at least 48 hours*

- 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

Remove person from danger. Remove contaminated clothing and wash with water

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Hydrogen chloride (HCl)

- 5.3 Advice for firefighters

- Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- 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.

- 6.3 Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to item 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

Provide suction extractors if dust is formed.

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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- 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers: Store in cool location.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Store in cool, dry conditions in well sealed containers.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Additional information about design of technical systems: No further data; see item 7.

- Components with limit values that require monitoring at the workplace:

CAS: 57966-95-7 cymoxanil

OEL Long-term value: 5 mg/m³

CAS: 57966-95-7 cymoxanil

OEL Long-term value: 5 mg/m³

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

- 8.2 Exposure controls

- Personal protective equipment

- General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

- 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.

- Protection of hands:

Protective gloves.

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

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.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Gauze goggles

- Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Solid.

Colour: Brown

- Odour: Characteristic

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- Change in condition	
Melting point/freezing point:	Not applicable
Initial boiling point and boiling range:	Not applicable
- Flash point:	Not applicable
- Decomposition temperature:	not determined.
- Self-inflammability:	Product is not selfigniting. (T higher than 400°C) (Method EEC A15)
- Explosive properties:	Product is not explosive
- Density at 20 °C	0.6-0.7 g/cm ³
- Solubility in / Miscibility with Water:	Unsoluble
- Solvent content:	
Organic solvents:	0.0 %
Solids content:	100.0 %
- 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions 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:**
Thermal decomposition products may include toxic and corrosive fumes of chlorides and toxic oxides of nitrogen

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.

- LD/LC50 values that are relevant for classification:

Oral	LD50	1,469 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50 (4 h)	>4.4 mg/l (rat)

CAS: 57966-95-7 cymoxanil

Oral	LD50	960 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50 (4 h)	>5.6 mg/l (rat)

CAS: 156052-68-5 zoxamide (ISO)

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50 (4 h)	5.3 mg/l (rat)

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- NOAEL (no observable adverse effect level)**CAS: 57966-95-7 cymoxanil**

Oral	NOAEL (18m)	4.19 mg/kg bw/day (mouse)
	NOAEL (1y)	1.3 mg/kg bw/day (dogs)
	NOAEL (2y)	4.08 mg/kg bw/day (rat)
	NOAEL (90d)	6.5 mg/kg/day (rat)
		84.4 mg/kg/day (mouse)
	Organs affected: testes, epididymides, thymus and blood parameters	
Dermal	NOAEL (28d)	>1,000 mg/kg bw/day (rat)

- Primary irritant effect:**- Skin corrosion/irritation** Based on available data, the classification criteria are not met.**- Serious eye damage/irritation** Based on available data, the classification criteria are not met.**- Respiratory or skin sensitisation**

May cause an allergic skin reaction.

- Additional toxicological information:**- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****- 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 and the blood through prolonged or repeated exposure. Route of exposure: Inhalation and Dermal.

- Aspiration hazard Based on available data, the classification criteria are not met.**SECTION 12: Ecological information****- 12.1 Toxicity****- Aquatic toxicity:**

LC50	0.83 mg/l (rainbow trout)
EC50	>44.6 mg/l (daphnia)
	0.055 mg/l (ALGAE)

CAS: 57966-95-7 cymoxanil

NOAEC (90d)	0.044 mg/l (O. mykiss)
FISH: LC50 (96h)	29 mg/l (Lepomis macrochirus)
DAPHNIA: EC50 (48h)	27 mg/l (Daphnia magna)
ErC50 (72h)	0.254 mg/l (Anabaena flos-aquae)

CAS: 156052-68-5 zoxamide (ISO)

EC50	120 µg/l (Selenastrum capricornutum)
EC50 (48h)	>0.78 mg/l (Daphnia magna)
LC50 (96h)	>0.79 mg/l (bluegill sunfish)
	0.16 mg/l (rainbow trout (oncorhynchus mykiss))

- 12.2 Persistence and degradability No further relevant information available.**- Environmental toxicity****CAS: 57966-95-7 cymoxanil**

oral LD50	>85.29 µg/bee (bees)
contact LD50	>100 µg/bee (bees)
LD50	>2,000 mg/kg bw (Colinus virginianus)

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LC50 (14d)	>1,000 mg/kg d.w. soil (Earthworm)
CAS: 156052-68-5 zoxamide (ISO)	
LC50 (5d)	>5,250 ppm (mallard duck)
contact LD50	>100 µg/bee (Honey bee)
LD50	>2,000 mg/kg (bobwhite quail)

- 12.3 Bioaccumulative potential**CAS: 57966-95-7 cymoxanil**

logPow	<3 (--) (0,67)
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- 12.4 Mobility in soil**CAS: 57966-95-7 cymoxanil**

BCF	(--) not required log Pow < 3
kfoc	43.6 ml/g (--)

CAS: 156052-68-5 zoxamide (ISO)

Kow	5,782 (--)
BCF	95-136 l/kg (--)
koc	815-1,671 ml/g (--)

- Ecotoxicological effects:**- Remark:** Very toxic for fish**- DT 50 (active ingredient)****CAS: 57966-95-7 cymoxanil**

DT50	1.4 days (soil) Very low to low persistence 0.3 days (water) Not persistent in water
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- 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

- 12.5 Results of PBT and vPvB assessment**- PBT:** Not applicable.**- vPvB:** Not applicable.**- 12.6 Other adverse effects** No further relevant information available.**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:**- Recommendation:** Disposal must be made according to official regulations.**- Recommended cleaning agent:** Water, if necessary with cleaning agent.

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SECTION 14: Transport information

- 14.1 UN-Number - ADR/RID/ADN, IMDG, IATA	UN3077
- 14.2 UN proper shipping name - ADR/RID/ADN - IMDG - IATA	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zoxamide (ISO), cymoxanil) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zoxamide (ISO), cymoxanil), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zoxamide (ISO), cymoxanil)
- 14.3 Transport hazard class(es) - ADR/RID/ADN	
 	
- Class - Label	9 (M7) 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: zoxamide (ISO), cymoxanil
- Marine pollutant:	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
- Stowage Code	SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR/RID/ADN	
- Excepted quantities (EQ):	E1
- Limited quantities (LQ)	5 kg
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

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- Transport category	3
- Remarks:	Transport according to ADR Special Provision 375 may apply for UN 3082 and UN3077 using packaging max 5 lt or 5 Kg
- IMDG	
- Limited quantities (LQ)	5 kg
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
- Remarks:	Transport according to IMDG Code 2.10.2.7 may apply for UN 3082 and UN3077 using packaging max 5 lt or 5 Kg
- IATA	
- Remarks:	Transport according to IATA Regulation Special Provision A197 may apply for UN 3082 and UN3077 using packaging max 5 lt or 5 Kg
- UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZOXAMIDE (ISO), CYMOXANIL), 9, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t**
- **Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t**
- **National regulations**
- **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

This information only concerns the above mentioned product. The information is to our best present knowledge. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

A list of European Poison Centres is available on

http://ec.europa.eu/growth/sectors/chemicals/poison-centres/index_en.htm

- **H phrases**
- H228 Flammable solid.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- **Classification according to Regulation (EC) No 1272/2008** Classification is based on test data
- **Department issuing data specification sheet: SIPCAM OXON S.P.A. - Product Safety Department**
- **Abbreviations and acronyms:**
- Flam. Sol. 1: Flammable solids – Category 1
- Acute Tox. 4: Acute toxicity - oral – Category 4

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*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**Repr. 2: Reproductive toxicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**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***This MSDS has been prepared based on data provided by EC Regulation 1107/2009**This MSDS has been prepared based on data provided by International SDS Regulation (830/2015)***- * Data compared to the previous version altered.**

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